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# A CCOUNT Of feveral LATE

## Voyages and Discoveries:

I. Sir John Narbrough's Voyage

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### SOUTH-SEA

By the Command of King Charles the Second: And his Instructions for Setling a Commerce in those Parts. With a Description of the Capes, Harbours, Rivers, Custom of the Inhabitants, and Commodities in which they Trade.

II. Captain J. Tasman's Discoveries on the Coast of the

South Terra Incognita.

Captain J. Wood's Attempt to Discover a North-East Passage to CHINA.

IV. F. Marten's Observations made in Greenland, and other Northern Countries.

To which are Added, a LARGE

INTRODUCTION and SUPPLEMENT. CONTAINING

Short Abstracts of other Voyages into those Parts. and Brief Descriptions of them.

The Whole Illustrated with Exact CHARTS, and Curious FIGURES.

LONDON, Printed for D. Brown without Temple-Bar, J. Round in Exchange-Ally, W. Innys in St. Paul's Church-yard, and T. Ward in the Temple-Lane. 1711.

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### INTRODUCTION.

HE Advantages of keeping judicious and accurate Journals in Voyages and Itineraries, are so many and great, in the Improvement of Geography, Hydography, Aftronomy, Natural and Moral History, Antiquity, Trade, Empire, &c. that few Books can compare with them either for Prosit or Pleasure. Therefore Ramusio, the De Brys, Hackluit, Purchas, John de Lact, Thevenot, &c. have begun a very commendable Design, and their Works are like to be always useful.

The Collection now published containing some curious Voyages, and exact Journals both to the South and North, beyond and through the Magellan Streights; as also to Greenland or Spitsberg, Nova Zembla, and Groneland or Groyneland; 'twill be necessary to premise in general, what other Navigators have gone before to those Parts, and what Additional Knowledge may be reap'd from the ensuing Work; in doing of which we shall observe Order of Place and Time.

First

First of some Discoveries and Navigations to. wards the Southern Parts of the Globe, South-West and South-East.

A. D. 1519. Ferdinand Magalhanes, a Portuguese Gentleman, upon some disgust taken at his Master King Emanuel, applied himjelf to the Court of Castile, offering to make great Discoveries of the rich Spice-Islands by the West, and to fail round the Globe. He was furnish'd with five Ships and 250 Men, by the Command of Charles V. They departed from Sevil August 10, 1519. and after having in vain attempted to pass thro by the great River of Plate, and having winter'd in Port St. Julian, they found out a Streight leading into the South Sea, call d afterwards by the Difto. verer's Name, the Magellan Streight; through which they were the first that pass'd from the Atlantick into the Pacifick Ocean, and so round the Globe home again by the Molucco's and Cape of Good Hope, having spent above three Tears in this Circumnavigation. At the Entrance into the Streight they found on the Shore many Sepulchres or Graves, whither the Inhabitants resorted in Summer to bury their Dead; as also a great Whale thrown up, and many Bones.

A. D. 1525. Garcia de Loaysa a Spaniard, enter'd into Magellen's Streight, and gave Names to several Places; as did also Simon de Alcazova in the Year 1534. Afterwards the Bishop of Placentia fitted out 3 Ships in the Year 1539, one of which got through the Streights of Magel.

lan to Arica in Peru.

A. D Ships and Voyage ro mentionea Peru, No turning to of Good I from Sir I Sea, and Streights being the he Atlan drillar, a empt thi end the a Viceroy of was fail'd t Sarmiento ur ue him agonia, e Brasil. S waded Phi fortifie in revent and r Settleme Paris; but artly by F. gons.

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A. D 1577. Sir Francis Drake, with five Ships and Parks, and 164 Men, began his famous Voyage round the Globe; sailing thro' the aforementioned Streight of Magellan to the Coasts of Peru, New Spain, Mexico and California; recurning to England by the East Indies and Cape of Good Hope. Capt. John Winter was separated from Sir Francis upon their Entrance into the South sea, and by Storms was forc'd back again into the Streights of Magellan, thro which he repassed home, being the first that sailed from the Pacifick into the Atlantick Ocean through these Streights. Ladrillar, a Spaniard, being fent from Chile to attempt this Passage, was driven back by Storms end the approach of Winter Anno 1579. the Viceroy of Peru, thinking that Sir Francis Drake vas sail'd to the Magellan Streights, equipt Don farmiento in the Port of Lima with two Ships to ursue him. This Spaniard coasted Chile and Paagonia, entring the Streights, and so passed to Brasil. Sarmiento upon his return to Spain, perwaded Philip II, to send two Colonies to plant and fortifie in the Streights of Magellan, in order to revent and obstruct the Navigations, Depredations, r Settlements of the English and Dutch in those Parts; but they all miscarried partly by Shipwrack, artly by Famine, and the Barbarities of the Patagons. This happen'd in the Years 1584, 1585, The Project was contrary to the Advice of he Duke of Alva.

Sir Francis in the Magellan Streight saw several of the Patagons, or Inhabitants, in their Canoes and Huts; their Boats were made of the Barks of

A 2

Trees

Trees and Seal Skins, very artificially interwoven. the Head whereof was semiluner. They painted their Faces either with an Earth or a Vegitable. In their Huts, made of Boughs and Skins of Filbes, he found Sea-Wolves and huge Muscles, whole Shells they sharpen so with rubbing of Stones that they cut every thing with them. Their fresh Wa. ter was kept in Veffels made of the Barks of Trees, and their Cloathing was chiefly made up of Skins of Penguins, Seals, and other Animals peculiar to. the Climate.

A. D. 1586. The third Circumnavigati. on of the Globe was undertaken and perform d by Thomas Candish E/q; who very prosperously finish'd that in two Years and two Months, which took both Magellan and Sir Francis Drake three

Tears in compassing.

Anno 1593. Sir Richard Hawkins made his junes, was Voyage into the South Sea by the same Streight that Froward. the aforemention'd Navigators did before him. H. Fleet, unde gives the most accurate Description of the Tree that Schald de bears the famous Winter bark, see his Observation vas chief I ons in Fol. printed 1622. p.88. This Spicy Aro. Streights. matick Tree (fays he) bears Leaves of a whitish description Green, not unlike the Aspen; and bears its sown Petag Fruit in Clusters like the Hawthorn, but that it Geese, Duc per corn, and every one of them containing Southwards within 4 or 5 Grains or Seeds, twice as big as A. D. 16 Mustard Seed, which broken are white within Dutch Flee and bite like the good Pepper; the Bark hath the Magella the Tafte of all forts of Spices, very Stomachick and Medicinal. We found it in all Places of the 100d Hop Streights

Streights abundand and full o Numbers

A. D. the Globe 1 man, his man, who Voyage. Th with Mag spent near He fair upo fort of Buf We may Delight o Chidley E Sire: ghts o

Streights where any Trees grew. Here are abundance of Muscles, very refreshing Diet and full of Pearl; also Limpets, and incredible Numbers of Penguins and Seals.

A. D. 1598. The fourth Circumnavigation of the Globe was perform d by Oliver Noort, a Dutch. man, his chief Pilot being Capt. Melis an Engiish man, who had accampanied Mr. Candish in his Voyage. This Noort steer d much the same Course with Magalhanes, Drakes and Candish, having Spent near three Tears in encompassing the Earth. gati. He saw upon the Land of Patagonia some Deer, a

d by fort of Bufalo and Offriches.

ly fi. We may note here, that in the Year 1589, the which Delight of Bristol, one of the Consorts of John three Chidley Efg; and Mr. Paul Wheel got into the Sireights of Magellan; but meeting with Misforle his sunes, was forced back, having reach'd only Cape tha; Froward. Also in the Year 1598. Verhagen's . H. Fleet, under Sir James Mahu, Simon de Cordes, vati. Sebald de Wert, &c. wherein William Adams vati. vas chief Pilot, suffer'd great Miseries in these Aro. Streights. This Sebald de Wert gave Clusius a nitish escription of the Winter-bark-Tree growing up and rs its Jown Petagonia. They preserved themselves with natit Geese, Ducks, vast large Muscles, Penguins, Seals, Pep Pro. Returning out of the Streight, and failing ining Southwards the discover'd Sebald's Isles.

ig as A. D. 1614. George Spilbergen General of a ithin Dutch Fleet of six Ships, passed thro the Streights hath Magellan and the South Sea to the East Inchick lies, from whence he returned by the Cape of file food Hope to the Texel, having been out about

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three Tears. This was the fifth Circumnavigation

of the Globe.

A. D. 1609, 1610. Pedro Ferdinand Giros a Portuguese, and Capt. Ferdinand de Quir. a Spaniard, do both affirm, That they failed at feve. ral times above 800 Leagues together on the Coall of a Southern Continent, until they came to the height of 15 degrees of South Latitude, where the found a very fruitful, pleasant and populous Country. Giros began to take his Course in the heigh of the Streights of Magellan. This vast Tract of Land perhaps may be one side of, or may belong in Jansen Tasman's Land, Vand Diemen's Land Zelandia Nova, Hollandia Nova, Carpentaria, and New Guinea; which the Dutch after. wards coasted, and gave Names to many Bays, Rivers and Capes, in the Years 1619, 1622. 1627, 1628, 1642, and 1644, from the Equinoctial to 44 deg South Lat.

The Hollanders have indeed made the greatest Discoveries towards the South Terra Incognita, which they have not yet divulg'd. Dirk Rembrantse about 15 or 16 Tears ago publish'd in Low Dutch, a short Relation out of the Journal of Captain Abel Jansen Tasman upon his Discoveries of the South Terra Incognita in the Tear 1642, to the Southward of Nova Hollandia, Vandemans Land, &c. 'Tis remarkable that all the Circumst vigators of the Globe enter'd into the East Indieseither by the Philippines or the Moluccos, being peradventure hindred from passing round mon Southwards by that vast long Chain of Land, which seems to stretch almost from the Equinochia

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al to the 50 degree of South Lat. Therefore they generally steer'd upon the South Sea, either for the Isles of Salomon, or those called the Ladrones.

A. D. 1615 Will. Cornelius Schouten of Horn, and Jacob le Maire of Amsterdam, undertook the fixth Circumnavigation of the Globe, by a new Passage Southwards from the Streights of Magellan in Terra del Fuego, which they happily discover'd and pass'd, finding out Sebald's Isles, Staten Land, Maurice Land, Barnevelt Isles and so by Cape Horn, in the 57 deg. of South Lat. they found out a new way into the South Sea, call'd ever since le Maire's Streight; in this Voyage they gave Names to several Islands and Countries, returning to Holland by the East Indies, having been out two Tears and eighteen Days. Afterwards a Spanish Fleet, under Bartoleme Garcia de Nodal. Anno 1618, sail d thro' le Maire's Passage; and in the Tear 1623, part of Prince Maurice's Fleet steered the same Course, discovering some small Isles. Nodal saw People near le Maire's Streight, all painted and clad with Bird's Skins; they fed upon yellow Flowers like Marigolds.

Anno 1643. Brewer or Brower, went another way into the South Sea, by a Passage call'd after his own Name, which is East of le Maire's Streight; but whether Brewer went through a new Streight with Land on each side, or had a wide Sea on the East we cannot inform you, having never seen the Diary of his Voyage; but most Maps make it a new Streight, tho perhaps he might sail under the same Course which Capi. Sharp afterwards did; they who have this Voyage may soon determine this Doubt.

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The Southern Part of Terra Magellanica, commonly call d Terra del Fuego, from the great Fires seen upon it by the Sailors, seems, by the Observations of the Dutch, to be divided into many Isles and Streights leading into both Seas. The Country appears Mountainous, with fair and green Vallies, Springs, Rivulets, and much Herbage. The Creeks are fit for Shipping, Water and Wood being plentiful. The Air is tempestuous by reason of the vast quantity of Vapours from both Oceans. The Natives paint theis Bodies, and deck themselves with Shells and Skins. They make their Baskets and Nets of Rushes, out of which they twist Lines, and hanging Hooks made of Siones and baited with Muscles, they take abundance of Fish. Their Knives are made of (barpen'd Bones, and all their Arrows are arm'd Their Canoes are like the Venetian with them. Gondala's. For the Description of the Northern Part of Terra Magellanica, commonly called Patagonia, we refer the Reader to Sir John Narborough's Journal, printed at the beginning of this Collection.

Anno 1669. His Majesty of Great Britain, His Royal Highness the Duke of York, and several others of the Nobility, design d a better Discovery of Chile; in order whereunto two Ships were sent out under the Conduct of that great Navigator and worthy Commander Sir John Narborough, who return d June 1671, having been out above in Years, passing and repassing the Streights of Magellan, and coasting Patagonia and Chile. His Observations and Draughts, are the most judicious and exact of any that went before him.

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Anno 1680 and 1681, Capt. Sharp made many bold Adventures on jeveral Islands and Coasts in the South Sea. In his return, he being quite out of all hopes of recovering the Streights of Magellan, or those of le Maire or Brewer, was forc'd to seek for a Passage farther South than by Cape Horn, he ment to about 60 deg. S. Lat. meeting with many Islands of Ice, Snow, Frost, and Whales; departing from a imall Place, named by him the Duke of York's Ifland, in the South Sea, he steered near 800 Leagues to the Eastward, and afterwards, as many to the Westward. The first Land he saw in those three Months was the Island of Barbadoes, so that Land in the Streight of le Maire and in Brewer's Passage, must be Islands, and not join'd to any great Southern Continent, as suppos'd by some.

Since these Attempts and Undertakings, several English Ships have pass'd into the South Sea both by the Streights of Magellan, and by the South of Cape Horn; but what Tradethey manage in those Parts, or what Discoveries they have made, or what Articles and Treaties they are engaged in with the Spaniard, we cannot inform the Reader, being no Merchants our selves, nor having seen any Journals or Voyages of those Quarters of the World, besides those before mention d.

In these Navigations to the Streights of Magellan, thro the South Sea, and by the East Indies home again, the common things noted in the several Voyages, (besides the Winds, Longitudes, Latitudes, Variations of the Compass, Tydes, Soundings, &c.) are Flying Fishes, Dolphins, Albacores, Bonitos, Sharks, Tropick Birds; the Sea Weeds

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call'd Sargassa and Tromba; the Aromatick Tree bearing Winter's Spicy Bark; Cuanacos or Indian Sheep, a Species of small Camels; Infinite Numbers of Penguins, Seals, Muscles, Whales, Ostriches, erc. These observed in sailing to and through the Streights of Magellan, by the several Navigators aforementioned.

On the Islands in the South Sea, Coco-tiees, Plantanes, Banana s. Pine Apples, Indian Figs, Limes, Hogs with Scent-bags on their Backs, a fort of Coney, Monkeys, Goats, Turtle, Almonds of four forts, Sugar Canes, Oysters on

Trees, &c.

Entring upon the Molucco's, Nutmeg Trees with Mace, Clove Trees, Birds of Paradife, and

great Heats.

On the Islands of Java, Sumatra and Borneo, the Faufel Palm or Arek, Pepper Shrubs, Betele Shrubs, Jacks, Mango's, Durions, Cajous, Jambos, Papaios, Arbor Rays, Arbor Tristis, Bambous, Ginger, Cardamums, Lacca Trees, Benzoin Trees, Camphire Trees, Tamarinds, Cassia, Mirobolanes, Cubebs, Costus, Galanga, Bangue, Dutroy, Snakewood, Calambac, Lignum Aloes, &c.

Towards the Gulph of Bengal, Elephants, Rhinocerots, Lions, Tygers, Crocodiles, &c. Upon the Maldives and Ceylon, Maldivy Nuts floating, Woods of Cinamon Trees, Oranges, Limons, Plantations of Rice, great Varieties of

Palms, &c.

At the Cape of Good Hope, Hippopotami, Zebras, Gazells, Jacalls, Flammants, Penguins Pelican, Divers
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Pelicans, Orichiches, Cassowares, vast number of Divers, Duckers, and other Sea Birds, great Varieties of Crustaceous and Testaceous Animals, of Lizards, Serpents, &c.

At the Canary Islands, several Burning Mountains, Brimstone, the Rhodium Plant, Euphorbium, Dates, Gum Dragon Trees,

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But we must note here, that besides and since the aforemention'd Navigators and Voyagers, more particular and fuller Observations have been made upon several of those Parts of the World towards the East and West Indies, by Physicians and Others, who have resided long in those Regions, or else received rich Collections from thence. But as to the most Northerly Counttries all we have is from the Navigators. The best of whose Observations are all contain'd in the Volume we here publish.

'Tis now high time to hasten to the North, and to give a short Chronological Account of the several Navigations and Discoveries made towards the North East and North West, viz. Nova Zembla, North East Greenland or Spitsberg, and North West Greenland, commonly called Groneland and Engronelandt

Ā. D. 1380. Nicolo and Antonio Zeni, two rich Venetians, and Brothers, fail'd from Gibraltar, intending for Flanders and England, but by great Storms were driven Northwards to Friseland, Iceland, Groneland or Engronlandt, for which we refer the Reader to Hackluit and Purples

chas.

Anno

A. D. 1497. John Cabot and Sebastian Cabot his Son, Venetians, were fent out of England by Henry VII. These, after their Return, gave an Account and Draught of some North West Parts of America, and brought four of the Natives back with them.

A. D. 1553. Sir Hugh Willoughby went out to discover a North East Passage, and sail'd above 160 Leagues North Easterly from Seynam, which lies in 70 deg. North Lat. "Tis very probable he landed on Nova Zembla and Greenland, from whence the Cold and Ice forc'd him to return more Southerly, till he came to Arzina, a River in Lapland, where the next Spring that great Man with all his Company were found frozen to Death in the Ship. This Tear the Russia Company began to incorporate.

A. D. 1556. Stephen Burrows fearching a Passage by the North East to the Indies, fail'd to 80 deg. 7 min. and thence to Nova Zombla, having been in all likelihood upon Greenland, by the desolate Land, the blue Ice, and great number of

various Fowls which he mentions.

About this time the Russia Company was establish d, and sent Yearly Ships and Factors, and presently after Ambassadors from Queen Elizabeth.

A. D. 1576, 1577, 1578. Sir Martin Forbisher made three several Voyages to find out a North West Passage, in which he made several new Discoveries of great Streights, Bays, Islands and Capes, as well as Land on both sides, to all which he gave Names. His Men brought home great store of glittering Marchasites, which the London Goldsmiths

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simiths took to be Gold Oar. He met with Inhabitants on the Shore of the Streight call'd by his Name; their Canoes were made of Seal-skins at top, but wood Keells: They exchang'd Salmon and other Fish, for loys: In their Tents abundance of Red Beans were found like unto those of Guinea: But more of Frobisher's Observations in our Supplement at the end of this Work.

A. D. 1580. Arthur Pet and Charles Jackman fail'd all over these Northern Seas, and pass'd into Weigats Streights, plying along the East part of Nova Zembla, so far as the Ice would give them leave, and finding no possibility of Passage, return d back the latter end of the Year.

Anno 1583. Sir Humfrey Gilbert, by the instigation of Secretary Walsingham, sail d to Newtoundland, and the great River of S. Lawrence in Canada, which he took possession of in the Name of Queen Elizabeth, and settled a Fishing-Trade there.

A.D. 1585. Mr John Davis was employ'd to learch out the North West, beyond where Forbisher went; he made further Discoveries in those Parts, which see in Hackluit and Purchas. This Davis made three Voyages to the North West. During his stay at Cape Desolation he found many pieces of Fur and Wool, like to Beaver, and exchanged Commodities with the Country People. Upon the Rocks and in the Moss, grew a Shrub whose fruit was very sweet, full of red Juice like Currants, perhaps 'tis the same with the New England Cranberry, or Bear-berry, (call'd so from the Bears devouring it very greedily;) with which we make Tarts. Vitis Idaa palustris frusta majore apud Josselin, de Nova

Nova Anglia. The Natives often repair'd to him in their Canoes, bringing with them Stag-skins, white Hares, small Cod, dry Caplin; several Copper Oars. Muscles, &c In his return out of the Fretum Davis (see our Chart of the Northern Regions) he found marvellous store of Sea Fowl and Cod, Woods of Pine-trees, Spruce, Elder, Ewe or Tew, Withy, Birch, Geese, Ducks, Black-Birds, Thrush, Jayes, Partridge, Pheasant, &c. black Pumice-stones, and Salt, kern d upon the Rocks, white and glittering; Unicorn and other Whales. See more of Davis in

our Supplement at the end of this Volume.

A. D. 1594, 1595, 1596, William Barents & Dutchman made 3 several Voyages to the North Eist at the Charge of the United Provinces, in the last of which he was compell'd to winter in Neva Zembla, about 75 deg. of North Lat. In these l'oyages they discover'd Bear or Cherry Island, and went upon Greenland. These Dutch Navigations were written by Gerart de Veer, and contain great variety of curious Observations, to which Mr Boyle owns himself much beholden, in the composing his History of Cold. They convers'd with, and describ'd the Samoyeds, coastea Nova Zembla, giving Names to several Points, Capes, Bays; Islands, &c. They discover'd the Bernacle Goose or Clakis sitting upon their Eggs, under the 80th deg. North Lat. They give good descriptions of the Whales, Morses, Birds, &c. and relate Phœnomena of Cold (during their melancholy Winter Abode there) with Ingenuity and Judgment.

Ann.

A. ] Button North yloriou. and lea-200 Le bove 80 tinent. much m Nelfon Industr back aga ed the Many N nam'd b 10 min Winter, Partrid reported Bears as West B Scurvy

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A. D. 1611. That worthy Seaman Sir Thomas Button, Servant to Prince Henry, pursu'd the North West Discoveries at the Instigation of that ulorious young Prince He pass'dHudson's Streight and leaving Hudsons Bay to the South fail'd above 200 Leagues to the South Westward over a Sea above 80 Fathom deep, and discover'd a great Continent, call'd by him New Wales, where, after much misery and sickness in his wintering at Port Nelson, he beat and search'd the whole Baywith great Industry, (call'd afterwards Button's Bay,) even back again almost to Diggs Island. He discovered the great Land he call'd Cary's Swan's nest. Many Men were lost during his abode in that River nam'd by him Port Nelson, in North Lat. 57 deg. 10 min. tho he kept three Fires in his Ship all the Winter, and was supply d with great store of white Partridges and other Fowl, of which his Company is reported to have kill'd 1800 dozen, besides some Deer, Bears and Foxes. On the Shores of those North West Bays grows abundance of Orpine, Sorrel and Scurvygrass, very much Angelica, whose Root the Gronelanders eat. They kill Morses, and make their Cords or Ropes of Whalebone.

In the Tears 1610, 1612, 1615, 1626. Mr. Hudson, James Hall, and Will. Bassiin, proseeded much further in the North-West Parts, giving Names to their several Discoveries; which may be seen in the Northern Maps, and in the Collection of Voyages, as also in our Supplement at the end.

The King of Denmark observing the progress of his Neighbours in the Northern Seas, began to send out Ships for making Discoveries in the Years 1605,

1606

1606, 1607, but these perform'd little. At list in the Year 1619 be equipp'd John Monk with 2 Ships, who tracing Forbisher and Hudson, came to the 63 deg. 20 min. where he was forc'd to winter, and cell'd it Munk's Harbour, and the Country New Denmark's seems to be near Diggs Island) See Muncks Voyage printed in French at Paris; also our Supplement at the end.

In 1608, Henry Hudson was sent out by the English Company to discover the North Pole; he proceeded to the 82 deg. of Lat. as did also Tho. Marmaduke of Hull 16 2, who saw divers Islands beyond that, and gave Names to several Places in Greenland. He went upon Nova Zembla in June and July, and observed Deer feeding here and there on green places, tho at that very time of the Year

it freezes in that Climate.

In the Year 1610, the Company began to apply themselves to the killing of Morses, and to the Whale sisting, which they found most plentiful about Cherry Island and Greenland; they began also to find those large Bones commonly called Unicorns Horns. In the Years 1611, 1612, 1613, 1614, 1617, 1619, 1620, 1622, the English Company sinding those Northern Expeditions so very prositable, encreas d the number of their Shipping to 13 or 14 yearly, under the Conduct of Poole, Fotherby, Edge, Hely, and others, who gave the Names to several Sounds and Points, &c.

Tet we find little worth relating of Greenland till 1630, in which Year some English commanded by Capt. Goodler were forced to wander up and down the Country, and to Winter there. A full Relation whereof

lled the U is Ifle, I notty-Po and, Edg harles-I() ames of t me confus Our Men elight of ain till 533, Say, iv'd the li which the . the Star. d so conti 6 or 7 ad by it. on the tops ole Body. 34. left i n disappea b. 14. a in 1596 oon in her n. 24. the

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bereof being Published by Dr. W. Watts, we shall rer the Reader thereunto.

Some English also winter'd in Greenland in the ear 1633 and another Company in 1634; the

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In these several Navigations to Greenland our Men we Names to many places, as Hackluit's Headland! hale-Bay, Horn-Sound, from the long Bones. lled the Unicorns, Ice-Point, Bell-Point, Lowis Isle, Black Point, Cape Cold, Ice Sound, notty-Point, Deer-Sound, Smiths-Bay, Hopeand, Edges-Island, Wyches-Island, Bear-Island, Afterwards the Dutch gave other harles-Illand. ames of their own to these Places, which has bred me confusion in Maps and Books.

Our Men that winter'd in Greenland, 1630. lost elight of the Sun October 14. and saw him not ain till February 2. Those that staid there in 33, say, that October 5. was the last day they periv'd the light of the Sun, tho they had a twilight, which they could read, till October 17. On the the Stars were plain to be seen all the 24 hours, d so continu'd all Winter. Jan. 15. they perceiv'd, 6 or 7 hours about noon, so much light as to Feb. 12. they saw the Rays of the Sun on the tops of the Mountains, and the next day his ole Body. Our Men that remain'd in Greenland, 34. left in writing before they perish'd, that the n disappear'd October 10. and was seen again The Dutch that winter'd in Nova Zemin 1596. lost the Sun on Novemb. 4. but the oon in her highest degrees was seen night and day. n. 24. they saw the edge of the Sun above the Ho-1120B. rizon. The difference of these appearances, dother proceed from different Refractions, but from the difference of Latitude, in which the English and Dutt winter'd, tho the cold in Nova Zembla exceeds that felt in Greenland. In these Countries the is a continu'd Day for four or five months in the year, as well as a perpetual Night for three months so for the Most part there is either all Light, or a

Darkness.

The English that were necessitated to winter Greenland, livid upon Venison ( of which there great store, perhaps'in of the Rhin-deer) upon Mo ies, Bears, Foxes, &c. The Bears Flesh was tol rably pleasant and wholsom, but the Liver made the skins peel off; which was also observ'd by the Duc that winter'd in Nova Zembla. As the Sun an Day-light began to appear, the Fowls and Fox crept abroad, for which they fet Traps and Spring and so took vast numbers: The Foxes prov'd who some Food, fer by it the Dutch were also relieved their Scurveys. In May they found great store Eggs laid by Willocks. The cold had prodigion Effects on our Men in Greenland, and on the Dutd in Nova Zembla, as blistering and ulcering that Flesh, freezing their Sack and Spirits, stoping the Clocks, freezing every thing by the fire fide; all white Captain James suffer'd in the Island of Charleton tho only in the 51 Deg. of North Lat. whereas the English and Dutch winter'd in 75 and 78 Deg. In the building of Houses, Tents, and North Lat. Cabins, upon these melancholy occasions, 'twas foun expedient to make them under ground, and to lin them with the skins of Beasts, thereby to keep out th sharp impressions of the air.

Authors hales, d Birtho ous Nam ns, in I Sperma nius, Scl m indeed the Bal rca or Bal nyseter or Monoc bale or Sp erma Cet erma Ce d in the n Accou bo has ha afts of Sc act than is Book, pecting in them fr ded Syn Anno D v'd to ad s, and th th Orders ests and their reta

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Authors are a little confus'd in the History of hales, some reckon up 10 Species, but Wormius d Birtholine, make them up 22, giving them vaous Names from their difference in Colours, in ins, in Tecth, in Whalebone, in Spouts, in Oyl. Sperma Ceti, &c. Rondeletius, Gesner, Belnius, Schonveld, Faber, Clusius, and Tulpius, m indeed to describe 6 or 7 distinct sorts of Whales, the Balæna Vulgaris, the Balæna Vera, the rca or Balæna dentata, (perhaps our Grampus,) the hyseter or Whirle-Pool, the Cete or Pot-Walfith, Monoceros or Unicorn Whale. The Trumpa bale or Spouter, may perhaps be the Physeter, and the ermaCetiWhale thePot-walfish, the theSpout and erma Cety may be common to many of them. We d in the Philosophical Transactions, Num. 205. h Account of Whales by Sir Thoms Sybbalds, bo has had opportunities of viewing them on the asts of Scotland, and therefore seems to be more act than other Il riters; but we having never read is Book, must be content to refer the Reader to it; pecting in the mean time more clear distinctions them from the Excellent Mr. Ray, in his ing thei ded Synoplis of Fishes and Birds.

Anno Dom. 1653. The King of Denmark rewhile bu'd to advance the Northern Trade and Discoverletches, and therefore equipped, and set out three Ships, eas il the Orders to take the most exact account of all the leg. This and Places the, came at, and to report them their return with all posible Curiosity, that therethe Voyage might be every way beneficial. to ling fed the Weygat Streights, and found some Inhaout the Canoes, or little

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#### The Introduction.

Fishing-Boats: These people were very nimble on Foot, and cloathed with Garments of the Skins of great Birds, like Penguins, and Pelicans, with the Feathers upon them. Their Boots were made of the Hides of Morses, or great Seales; they had Qui. vers at their Backs full of Arrow's, with a Hatchet of Fish-Bones; their Temper untractable and indocil abhoring our Beer, Spirits, and Meats. Nova Zembla they steer'd to Greenland. Thefe Countries afford no Trees, or Shrubs, except a little Juniper, and a few dwarf Firs; abundance of Moss Heath, a fort of Cabbage, Lettice, Scurvygraß Sorrel, Snake-weed, Harts-tongue, a kind of Strawberry, divers species of Ranunculus, and Houseleek In the Holes and Rocks infinite quantity of Fowl Nests, whose dung with the moss wash'd down make a mould in the Valleys or Clefts, which produce the aforementioned Plants; otherwise the Country is generally made up of vast beaps of Rocks, broken Stones, and Ice heap'd up from many Generations.

Of Water-Fowl there is incredible variety, and in fo great abundance, that with their flight they darked the Sun, and cover the Sea. There are also great quantities of Dog-Fishes, Lobsters, Gernels, Star-Fish, Mackrel, Dolphins, &c. a sort of Sea-Spider found in Whales Stomachs. For all which see the French Relations of the Danish Voyages, Printed at Paris both by M. Peyrere, and Martiniere.

Anno Dom. 1630. Captain Luke Fox was femout in His Majesties Pinnace the Charles, Victual led for 18 Months, young Sir John Wolstenholm being Treasurer, to search out a North-West Passage He traced Frobisher, Hudson, Davis, Bassin, and

Button

utton; me le built a P eral rem e observ'd th sides th ber forts of ass. Blackc. but no l is place, t ral Savage and soon as ey both me n, in the nter, but xt Summe graph, and Anno 16 as James n Bristol, to ssage into ficult a wo eas'd to co ear 1633. cious Acco ming, retur ys, Tydes s, and of and Math d divers 7 fesses that

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utton; meeting with Whales, much Ice, and Fowls. e built a Pinnace in River Nelson, where he found veral remains left there by Sir Thomas Button: e observ'd abundance of small spruce Fir-Trees on th sides that River almost cover'd with moss, and her forts of Trees, but small; the Valleys had good als, Black-Berries, Straw-Berries, Vetches, Venison. c, but no Natives or Inhabitants to be met with in is place, tho' in other parts of these Seas he sam seral Savages. Captain James departing from Engnd soon after Captain Fox, upon the same design, ey both met and caress'd each other near Port Neln, in the month of August. Fox got home before nter, but the other was forc'd to stay till the at Summer. Of which more in the following Pagraph, and in our Supplement at the end.

Anno 1621. The most ingenious Captain Tho-Bristol, to attempt and discover a North-West flage into the South-Sea, and was design'd for so afficult a work by King Charles the First; who was pas'd to command him to publish his Voyage in the Fish cious Accounts of the hardships both in going, winpide hing, returning; as also of the Streights, Capes, ee the ys, Tydes, Soundings, Variations of the Cominter sign and of the Natural Rarities both Philosophiand inathematical, together with a Plat or Card, ad divers Tables. Out of this Journal Mr. Boyle fesses that he took many Passages and Phanomena ated in his History of Cold. This excellent Nantor seems to be of opinion, that there is no pasby the North-West to China, Japan, &c. His

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Reasons

#### The Introduction.

Reasons may be read at large in his Journal printe at London, in Quarto, 1633. Tet in the year 1667. this design was renew'd, and undertaken several of the Nobility of England, and Merchand of London, who equipp'd and sent out Zacharial Gillam Commander in the Nonsuch Ketch: he pa sed through Hudson's Streights, then into Baffin Bay, to the Latitude of 75. from thence Souther to the Lat. of 51. or thereabouts, in a River nor call'd Prince Ruperts River: He found here friendly Correspondence with the Natives; built Fort called Charles Fort; return'd with good success; and laid the Foundation of an advantage ous Trade in those parts. But in the year 1681 this place was seiz'd upon by the French. See mon of Captain James's Voyage and Discoveries in on Supplement at the end.

Anno 1671. Fredrick Martens, an Hambur ger, undertook the Greenland Voyage, upon add fire, as may be suppos'd, in great part to satisfie th Curiosity and Enquiries of the Royal Society; which he perform'd in his admirable Diary printed in High Dutch in Quarto, being affifted therein by the fa

mous Fogelius.

Anno 1676. The industrious and most ingenion Captain Wood, was again sent out by his Mijell King Charles the Second, to make a more perful Discovery of the North-East Parts for a passage if the East-Indies : He went no further than the 7 Degree of North Lat. where he lost his Ship on the Coast of Nova Zembla. His opinion is, there is no sailing this North-East Way to China, Japan English. Oc. The like opinion Captain James hath given

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Mr. Wi nno 169 Japan: Nova Zen ary, havi be Tartar erhaps rea bat Nova Continent Captain W North-Ea

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printe heNorth-West Passage, being both perswaded therehe yes Into by the stretching of the Lind, by the distraaken in ion and reversion of half Tides, by the motion schan of the Ice, &c. besides the Fogs, Snow, Frosts, wast charia flands of Ice, and the Weather, are insuperable.

he paid Mr. Witsen in his Letter to the Royal Society,

Baffinno 1691. writes against the North-East Passage Nova Zembla join upon the Continent with Tarary, having since been better inform'd. He thinks be Tartarian Points may run very far North, and b gom Jerhaps reach to America. Captain Wood fancies, antage hat Nova Zembla and Greenland are the same 1687 Continent. If these Conjectures of Captain James, ce mon Captain Wood, and Mr. Whitsen, concerning the in on North-East, and North-West Passages to the East-Indies should not be true, yet the difficulties of mour failing those ways would be invincible.

But now it seems convenient to come to the prese the fent Work, and to give an account what is conwhite ain'd therein. The Authors are Four, viz. Sir High John Narborough, Captain Jansen Tasman, Cap-

the fa Jain Wood, and Fredrick Marten.

I. Sir John Narborough is so well known in England, and so famous beyond the Seas, that I ijest need fay nothing of his great Abilities. perfo Voyage into the South-Sea is mention'd before.

ige III. Captain Abel Jansen Tasman's Voyage from the 7 Batavia in the Island of Java, to the South Terra Incognita is the more considerable, in that 'tis the Discovery of a New World, not yet known to the English.

'Tis

#### The Introduction.

'Fis probable by Abel Jansen Tasman's Navigati meland, as on, that New Guinea, New Carpentaria, and Bast, and New Holland, are a vast prodigious Island, which he seems to have encompass'd in his Voyage, setting lave not out from Batavia to Maurice Isle, East of Mada Painters, gascar; from whence bearing away South to 49 deal of South Lat. and then East and by North to Lat. 41 and 44, he fell upon those new Tracts of Land call their Ho Van Diemen's, and afterwards upon New Zealand to the South East of New Holland; returning to ers, equal Batavia through part of the South Sea (whereink Discover'd new Islands ) and so Northwards of New Guinea to the Molucco's, and Java.

III. Captain Wood was a most excellent Navigator: He, together with Sir Cloudsly Shovel, accompany'd Sir John Narborough to Chil, Afterwards he was sent by King Charles II. to Dif cover a North-East Passage to China and Japan by Nova Zembla and Tartary; of which you have

here an Abstract.

IV. Fredrick Marten of Hamburgh Publishid his Observations made in Greenland in the High Dutch, a Language little understoood in England. His Voyage being the last and best was much desir'd here, it being full of Draughts and curious Remarks; the Copying and Translating of which, are perform'd with all possible diligence.

These four make up the Volume, together with many new Carts and Designs, drawn upon the several places, which do much illustrate the Work, and improve both Natural and Mathematical Science. To these we thought fit to tack a Supplement containing some Observations on Groneland, or Engro-

neland,

Tis to Bck Stipe and Frenc Lave Capac Mæcenates to every the Part of bin ing great N ing Arts a bich some Laps may b This makes Ages, cover cures the be

effect great

vigationeland, as also upon some Northern Islands, North-, and East, and North-West.

which Tis to be lamented, that the English Nation setting Lave not sent with their Navigators, some skilful Mada Painters, Naturalists, and Mechanists, under pub-9 deg lick Stipends and Encouragement as the Dutch at. 41 and French have done, and still practice daily, much call their Honour as well as Advantage. The English aland, Lave Capacity, Industry and Judgment in these Mating to ers, equal to, if not beyond their Neighbours, Sint reinh Macenates. We are apt to imitate a certain Prince ds of the every thing, except in the most glorious and best Part of bim, viz. The Encouraging and Reward-Navi-ing great Men in all Professions, and the promotnovel, ing Arts and Sciences with his Treasure: A Secret l, Af which some Ministers think not fit to practice, or perhaps may be insensible of, for want of penetration. Japan This makes a great Figure in the present and future have Ages, covers many Spots and Deformities, and secures the best Heads, and Hands to carry on, and liss'd effect great Designs.

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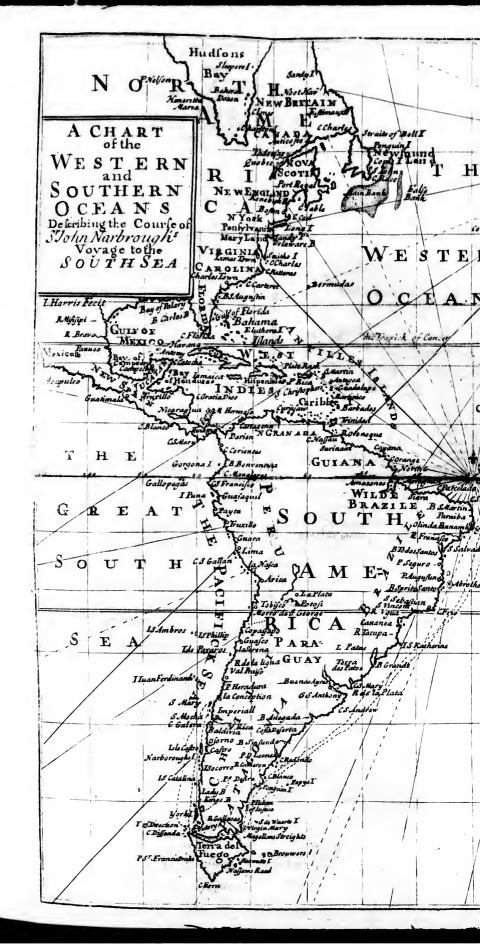
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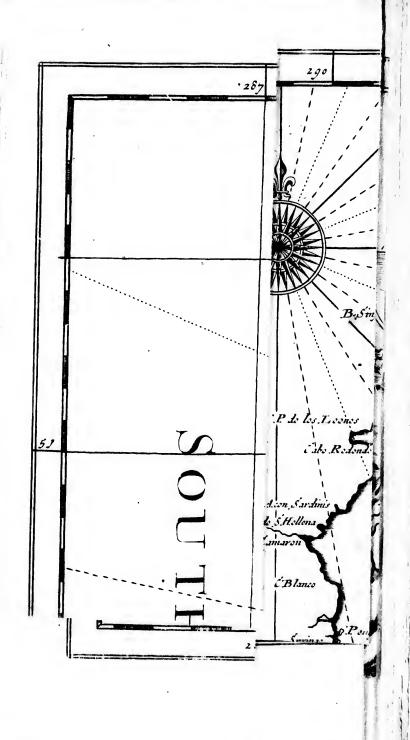
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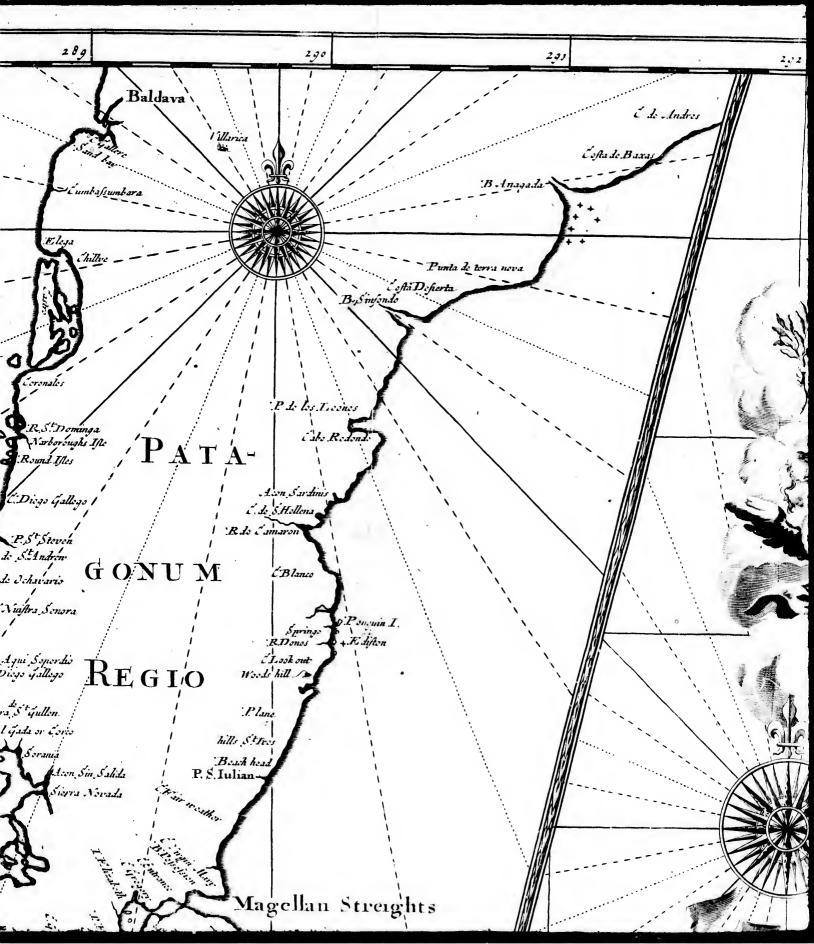
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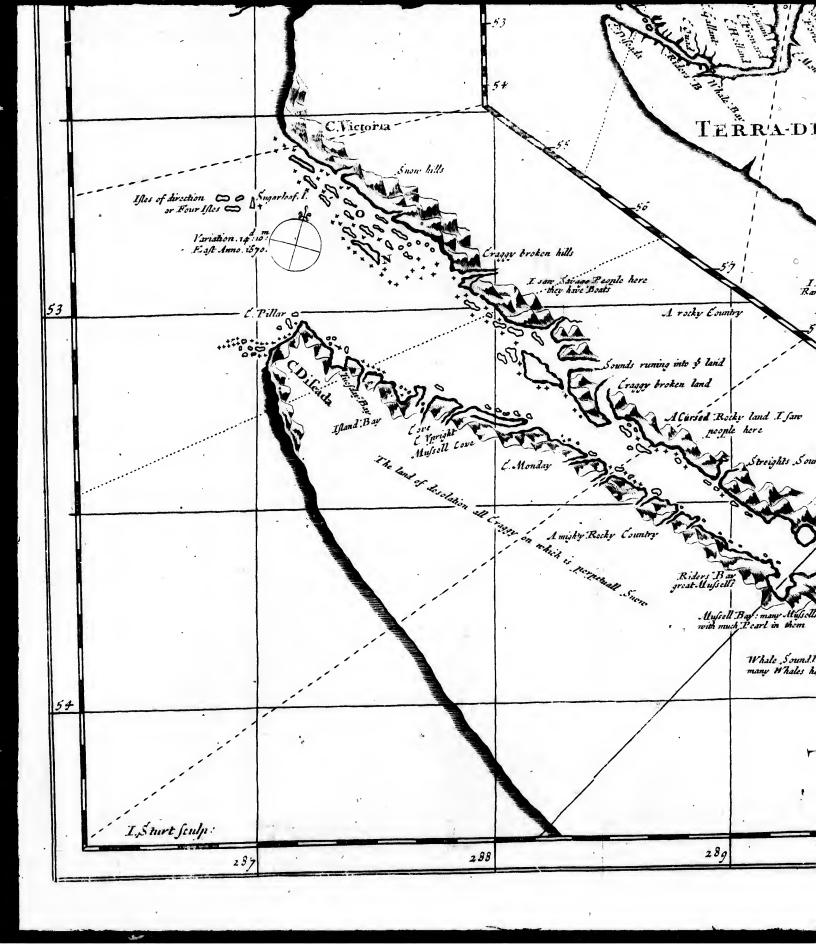






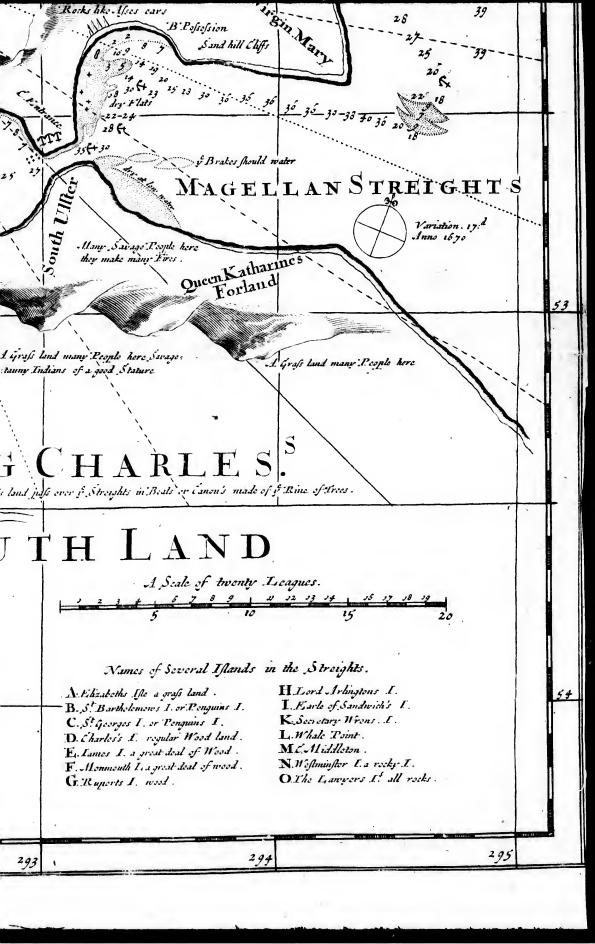


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## JOURNAL

KEPT BY

Captain John Narborough, &c.

AT 15: 1669. This day being Saturday, I received from the Honourable Mr. Wren, Secretary to his Royal Highness the Duke of Tork, my Commission to Command his Majesty's Ship the Sweep-stakes, the Ship being at Deptford, in the River of Thames near London.

Sunday, September 26. 1669. Set out at his Majesty's proper Gost, one of his own Ships nam'd the Sweepstakes, Burthen 300 Tuns, with 36 great Ordnance, and all other Munition proportionable; manned with 80 Men and Boys, victualled for sourteen Months, at whole allowance of all Provisions both good and wholsome, having Oat meal for Fish, and sour Tuns and an half of Brandy in lieu of Beer, stores of all sorts compleat for twelve months, with provision of Crast to take Fish and Fowls, a Seyne Net, and hooks and lines, and signs, and harping Irons, twelve Fowling-pieces,

with shot, and pigs of Lead to make shot, if occasion, &c. And the Batchelour Pink, burthen 70
Tuns, with sour great Ordnance, and all other
Munition proportionable; mann'd with nineteen
Men, one Boy, victualled for twelve months, at
whole allowance of all provision good and wholesome, as the Sweepstakes had, and stores proportionable for the time, and Crast to take Fish and
Fowl, &c.

Having a fort of Goods to the value of three hundred pounds, as followeth Knives Sissers Glasses, Beads, Hatchets, Bills, Hoes, Nails, Needles, Pins, Pipes. Bells Boxes, &c. Daffels Linnen, Cloth, Osenbrigs Tobacco, and Pipes, &c. to trade

with the Natives at his Majesty's Charge.

Wednesday, September 29. Hazy Weather, the Wind to the North-west and by West, a sresh gale: Islood to the South westward as near as I could; this day at 12 a Clock the Lizard bore North of me a little Easterly, distance about 12 Leagues, according to my account; Latitude by account, 49d. 35m. This day I spoke with a French Banker. Lizard in England lies in the Lat. of 50 d. 10 m. and in Longitude East, from the Meridian of the West part of S. Michael, one of the Islands of the Azores 18d. 30 m. From the Lizard I take my departure, and keep my daily account of the difference of my Longitude from that Meridian.

october 17. I made the Madera, which Island is high Land and irregular in Hills, with Wood on the top, and down the sides; planted with Vines: there is some Sugar made in the Island: the Inhabitants Portuguezes. The City of Fonchials

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is the Metropolis, and is fituated in a Bay on the fouth Part of the Island, close to the Sea side, walled next the Sea, and well fortified with Ordnance; fresh water comes running into the Sea in the middle of the Bay, in a fair Rivulet from under an Arch in the Wall; the shoar sides are great Pebble stones in the Bay, and Rocks in the other places; the Road is foul ground, to the East part of it: the ships ride in shot of Ordnance of the City: this City is about an English mile in length, and three quarters of a mile in breadth.

The Defarts are barren rocky Isles of a good heighth, and lie at the South-east point of Madera, above a mile distant from the shore; there is water enough between Madera and the Defarts in the midway, and no danger; the Defarts trent to the south east. Fonchiale Bay in the Isle of Madera, lies in the Lat. of 32 d. 10 m. North, and in Longitude West from the Lizard of England 10 d. 1 m.

and Meridian distance 143 Leagues.

Sunday being the 17th. fair Weather and little wind at North-west, Course by my Compass South west. I make my true Course by Fon-thiale Bay, till to day at 11001 South south west, dilance, sailed 34 miles six tenths departure West 13 miles; Diff. Lat. ocd. 32 m. Lat. by account 31 d. 18 m. Meridian distance from the Lizard West, 147 leagues 1 mile; Longitude from the Lizard West 10 d. 17 m. Difference of Longitude from Fonchiale West 00d. 16 m. To day at 1001 I saw the Island of Madera bearing N. b. E. the body of the Isle distant by estimation 11 leagues; it makes 11 has bluff body at the West end, and trents to the B 2

East: Course by the Compass this afternoon S.W. little wind to night; I shaped my nearest Course for the Island of St. Jago with all the sail I could make, the Batchelour Pink in Company; I gave order to my Master to make the best of his way to St. Jago Island, but not to leave the Company of the Batchelour.

Saturday, October 23. The wind at N.b. E a gale this day in the forenoon I crossed the Tropick of Cancer, all my men in good health, I praise the Almighty God for it: many of my men that had been with me in the Indies formerly, were let blood; for I take bleeding in these hot Climates to be a great preserver of health, diverting Calentures; I experienced it in two Voyages before to the Island of St. Helena; and in one to the Coast of Guinea, where several of my men under that distemper, were preserved by bleeding; in all these Voyages I was never sick one day, nor in two years time in the Mediterranean Sea, nor at the Canaries; for when I came near the Equinostial I always breathed a Vein.

Thursday, October 28. the Wind at East-North East, a stiff gale; this Morning I saw the Isle of Mayo bearing S. b. W. distant by estimation eight Leagues; it makes a high Hill, and Craggy to the East part, and low land towards the shore-side, the North west part of the Island; it lies from Bravist S. b. W. distant near 18 leagues. This date is a Clock Ianchored in the Road in sevens thom water, sandy Ground, about a mile from the shore; the Northernmost point of the Road bearing N.N.W. half a point to the West, and the Southern

thern poin me; difia craggy R shore side the Road of the Islan nond a bo Land; fre! liiore prese heap of Sa gain imme which brou fo much th the Seyne I Mullets, w the Islander ashore to t down fome rode here al flerly. Thout wood;

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thern point of the Road bearing South east from me; distant about a mile and an half; there are craggy Rocks to the South of the Road on the shore side, but to the North a low sandy shore; the Road is on the North west and by West part of the Island in a finall fandy Bay; there's the Saltnond a bow's shot from the Sea in the low fiat Land; fresh water is very scarce here: I went ahore presently after I had anchored, and found a heap of Salt of about 20 Tuns; I got aboard again immediately, and fent the Long boat ashore, which brought off 2 Tuns and 1; the Suffcame in fo much that no more could be got off; we halled the Seyne here, and caught abundance of good Mullets, with fome Cavalle and filver Fish; one of the Islanders a Negro came aboard, whom I fent ashore to tell the People that if they brought down fome Cattle I would buy fome of them; I rode here all Night; fair Weather, the Wind Easterly. This side of the Island is dry land without wood; here are many Goats, and Guinea Hens.

Friday, October 29. fair Weather, the wind at N.E. a fine gale: this Morning I fent my Boat ashore, and bought of the Islanders some Goats at other a piece of Eight per Head, and 8 Cows, excellent good meat, at 6 pieces of Eight a Cow, giving the n Biskins again; my men caught a great many Fish with the Seyne, which this day we Split, and laid in pickle four Hours, then dried them to keep, which, they will a long time in any Chmate, as I have experienced in other Voyages, and are very good Victuals at Sea: I made what dispatch I could

could to be gone for St. Fago Island This day in the forenoon, a ship passed by to the Westward on the fouth fide of the Isle, and in the afternoon we faw feveral thips coming from the North. ward, which were the Portugueze Fleet bound for Brazil; they halled into Port Praya in the Isle of St. Jago, to water: this night I weighed, and flood away at twelve a Clock South fouth west for Port Praya, with the Pink in company: I touch'd at the Isle of May for Salt, which I knew would be a great help to get Provisions in the

Voyage.

6

Saturday, October 30. fair wind at North east and by North, a fresh gale. This Morning Isteered South west for the south side of St. Fago, where is the Road of Port Prava, lying near South west from the Road of the Isle of May, and distant nine This day at 12 a Clock I cast my best Bower-anchor in Port Praya Road, in ten fathom rough Ground, the East Point bore East of me, and the West Point about West-louth-west, about half a mile off: I could not get into the best of the Road, the Portugueze Fleet of about thirty fix fail riding in it: the Great Padre Eternel, Admiral, bound for Brazil, is a very great ship, and well built; they fay she is in burthen 1700 Tuns; she hath Ports for three Tier of Guns flush, but now fhe had but eighty, and poorly manned with Scamen, and so were all the rest; six Frigots might have taken most of the Flect. At my coming in to Anchor, the Admiral faluted me with 7 Guns, I thanked him with as many; Captain Francis Wilksheir in the Ferusalem, fired five, I returned him

him thre turn'd th of the Fl clusion w fide of the Guns, wh tenant all ter, which the Cask lading abo

Surday,

North eaf went alho Boats ladir were filling watering p off, and rui Men go an This Bay o but a fine ro the East sid the Castle no force; th on the East North west and fandy, A fresh wat and thence this Water i keeps well a a small Islan on it that m

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ned lim him three; so did the Reer Admiral, and I return'd the Complement in the like number; several of the Fleet fired three, whom I answer'd in conclusion with three for all. I rode on the broad side of the Admiral, and saluted the Fort with sive Guns, which return'd three; then I sent my Lieutenant ashore to ask leave of the Governor to water, which he granted forthwith; my Coopers got the Cask ready, and this Eyening put one Boat's lading aboard.

Surday, October 31. fair Weather, the wind at North east, a fine gale. This morning Don Carolus went ashore to Pryam; with much ado I got off a Boats lading of Water, for the Portugueze Boats were filling too, and a great many Soldiers at the watering place fnatch'd fome of our mens Hats off, and run away; wherefore I would not let my Men go any more this day for fear of quarrelling. This Bay of Port Praya, as they call it, is no Port but a fine round Bay, having high sleep Cliss on the East side and in the bottom a steep Hill where the Castle is, that hath but four Guns, and is of no force; there is a small Fort on the top of a Mil on the East side, which hath three Guns. On the North west part of the Bay the shore is gravelly and fandy, and there's a Grove of Coco nut trees: A fresh water Rivulet runs down into the Valley, and thence thro' the Sand foaks into the Sea: this Water is in great quantity, very good, and keeps well at Sea: to the West part of this Bay lies

this Road is no safeguard for shipping; for a Man B 4 of

a small Island close on the shore, which has Grass

on it that may be cut off for Cattle, which I did;

of War may take any Ship out of the Bay, without receiving any damage from the Forts ashore, and with Fire. Ships a whele Fleet may be spoiled at pleasure; for it's a fresh Gale every day, and there's but two points of Land by which a man may fetch into any part of the Bay; also the Bay lies open to the Sea from the East, Southerly to the W.S.W. I called for my Lieutenants and Master, and acquainted them, that I had Orders to fail from thence to the Coast of America to the Southward of the River of Plate, to the Streights of Magellan, through which we were to pass into the South Seas, and that we must shape our Course to make the shortest way of it, and be careful to keep Easterly enough of it, to weather the shoals of Brazil called the Abroholls, lying in and about eighteen degrees of Southerly Latitude; for the Wind blows for the most part thereabouts between the Latitude of ten South, and the Latitude of twenty South, at East by South, and East Southeast fresh gales: whilst this pass'd, in came the Master, and told me all things were stowed, and the Wind at E.b.N. fresh; I concluded with him that our best Course at present would be South and by East, and as we got Southerly and the Wind grew large, we might alter our Course when we would: we steered a Point or two from the Wind, that the ship might have fresh way through the I ordered my Master to steer South and by East by the Compass, and my Lieutenant to call all hands to Prayer, read Service, and beg'd of God Almighty a prosperous Voyage, continuance in Health, and love to one another, and that we might prosper in this Undertaking, &c.

Instructions mander o lour; By Highness, 1659. to

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Instructions for Mr. Humphrey Fleming, Commander of his Majesty's hired Pink the Batchelour; By vertue of an Order from His Royal Highness, dated the twenty ninth day of August 1659. to me directed.

7 OU are hereby required to fail with his Majesties hired Pink the Batchelour, which you are Commander of, and to keep Company with his Majesties Ship the Sweepstakes to the Coast of America to the Southward of Rio de la Plata, and along the Coast of America to the Southward, till you come to the Streights of Magellan, lying in about 53 Degrees of South Latitude; through which you are to pass into the South-Sea, and sail along the West Coast of America Northerly, till you come as high as Baldavia, which lies in about 40 Degrees of South lat. there you shall receive further Orders from me, or in my absence, from the Commander in Chief on board his Majesties Ship the Sweepstakes, in case you keep Company with her, whose Company you are not to depart from or leave upon any occasion whatsoever, as you will answer the contrary at your peril, unless you have Order from me so to do, or in my absence from the Commander in Chief on board her; You are also to understand, that you are to be employed by me as I shall see occasion to employ you, to discover Lands, Bays, Havens, Rivers or Streights, Gc.

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The defign of this Voyage on which you are employed, being to make a Discovery both of the Seas and Coasts of that part of the World, and if possible to lay the Foundation of a Trade there. You are not to meddle with the Coast of America. nor fend on shore, unless in case of great necessi. ty, till you get to the Southward of Rio de la Plata; and you are not to do any injury to fuch Spaniards as you shall meet with, nor meddle with any place where they are planted: You are to take Observations with as much Accuracy as you can and also to cause your Mate and Company to do the like, to observe all Headlands, Islands, Eays, Havens, Roads, Mouths of Rivers, Rocks, Shoals, Soundings, Couries of Tides, flowings and fettings of Currents, where you come, both in the North and South Seas, &c. and cause Draughts and Designs to be made of them; and also you are to take notice of all Trade Winds, &c. you meet with, and of the Weather, and especially to observe Harbours in the Streights of Magellan; You are in all places where you Land, to observe the nature of the Soil, and what Fruits, Woods, Grain, Fowls, and Beasts it produces, and what Stones and Minerals, and what Fish the Rivers and the Sea doth abound with; You are to do your to keep a g utmost to procure of the Minerals to carry to Eng-Men, and in land, and to deliver them to His Royal Highunder your ness's Secretary. You are also to mark the Temmake it know per and Inclinations of the Indian Inhabitants, and have your Shi where you can gain any Correspondence with servation of v them, you are to make them sensible of the great per us. Power

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Power and Wealth of the Prince and Nation to whom you belong, and that you are fent on purnose to set on foot a Trade, and to make Friendthip with them; but above all, for the Honour of our Prince and Nation, you are to take care, that your Men do not by any rude Behaviour or Injuries to them, create an Aversion in them to the English Nation; but that on the other side they endeavour to gain their Love by kind and civil Usage toward them, and whosoever shall act otherwife, you are to correct him or them for fo doing, which you are to acquaint your Men with, that they be not ignorant. You are to be careful of your Provisions and Liquor, and to husband it to the best advantage, that there be no wastful Expence made of it, nor of your Ships Furniture, as Sails, Anchors, Cables, and Rigging, &c. and that you endeavour at all places where you come, to get Provisions, Wood and fresh Water, so as you do not endanger your Ship and Men, which you are to be very careful of, and in no cause to expose any one of your Men to the hazard of his Life. but always be careful that they be well guarded. and be watchful, for there have been many cut off by their own neglect. You are to be careful to keep a good Command aboard over your Men, and in case any mutinous practice happen under your Command, you are forthwith to make it known to me. You are to be careful to have your Ship kept sweet and clean for the preservation of your Men's healths: And God profper us.

Given

Given under my Hand on board his Majesty's Ship the Sweepstakes, riding at the Island of Saint Jago, in Port Praya Road, Nevember 5. 1669.

John Narbrough.

To Captain Humphry Fleming, Commander of the Batchelour-Pink, These.

Instructions for the better finding each other after feparation by Chance, foul Weather, or otherwise.

JOU are hereby required to Sail with his Majesties hired Ship the Batchelour, under your command, and to keep company with his Majesties Ship the Sweepstakes, along the Coast of America, to the Southward of Rio de la Plata, to Port St. Julian on that Coast, which lies in about 49 d. 20 m. South Latitude, which your Draughts In case of separation at Sea in this mention. Voyage from each other, you are to use all means to endeavour to meet again, that is to fay, by looking well abroad at Sea, and so to observe the Order in your failing Instructions, to know each other at fight: the next Post of Rendezyouz will be at Port St. Julian, which is on the coast of America, as is said before; You are to make all the hast that you can thither, and to stay for the Sweepstakes there two whole Months, if you get thither before her, and she shall do the like for to t

you. In yo fed to the S best for you fee if you c Blanco which titude, and to stay; yo fir, which 1 shall come you come nailed to a the Ship's n and the nex would do th do likewise. to a Pole, b shall be place bour at the a Tent : pr do the fame opportunity long, if I c you may be Memorials

prosper our Given un Board the St. Jago, No.

To Captain

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you. In your way thither, after you have pafsed to the Southward of Rio de la Plata, 'twill be best for you to sail along the Coast of America, to fee if you can fall with me, and to make Cape Blanco which lies in about 17 d. 20 m. South Latitude, and so to Port St. Julian, where you are to stay; you may also enquire for me at Port Defir, which lies in about 48 d. South Lat. If I shall come to any place, and be gone again before you come thither, I will leave a piece of Board nailed to a Pole or Tree, engraven, mentioning the Ship's name, and the day of my Departure, and the next Port I intend to go to; I desire you would do the fame; and at Port St. Julian I will do likewise, and also leave an Order for you tied to a Pole, being put in a Glass Bottle: the Pole thall be placed on the Island which lies in the Harbour at the West End thereof, where I shall build a Tent: pray be careful to look for it, and I shall do the same for you; it may be I may have an opportunity to touch on the Coasts as I fail along, if I can find any Trade with the Natives; you may be fure, where ever I come, to find those. Memorials of my being there before you : so God prosper our Intentions.

Given under my Hand at Port Praya Road, on Board the Sweepstakes riding there at the Island of

St. 7ago, Novemb. 5. 1669.

John Narbrough

To Captain Humphrey Fleming, Commander of the Batchelour Pink.

Decem-

December 4. Many flying Fish seen to day, and Bonetto's, Sharkfish, and Albycores, a Fish larger than a Bonetto, but of that Mackrel shape, and seaverish Diet. they live upon the flying Fish like the Bonetto's; to day we caught some of them with Hooks, and one Shark; our Men eat them both, and account the Shark a good Fish.

December 7. To day the Cooper found two Buts of Beer had leaked out: this day all of us drank Water only, for it was ever my order that the meanest Boy in the Ship should have the same allowance with my self; so that in general we all drank of the same Cask, and eat one fort of Provision, as long as they lasted: I never permitted any Officer to have a better piece of Meat than what sell to his Lot; but one blinded with a Cloth serv'd every Man as they were call'd to touch and take, by which means we had never any Difference upon that score.

ny, God be praised, in good Health. most cathem were let Blood aster I had cross'd the Tropick of Cancer, and none troubled with the Calenture in

this Voyage.

Whilst I am in the hot Weather I allow a quart of Vinegar to 6 Men per Week, and also to eat with their fresh Fish, which I divide equally among the whole Ship's Company, be it little or much, or caught by whomsoever.

Friday, December 24. I find great Difference within this 48 hours between my dead Account,

s we call it, Observations 1 was on the Mo Southerly by 1 berceive any nd the half Current fets to t the East, an December 30 nuth, and find lasterly, my iir Weather to was very visib siece of the M rn Constellati Antarctick, the Tail of little H re all small Si o Pole star, r e feen within ers Stars of th good for Obser

distance from the H

hey are on the

The black Cloud

we call it, which is kept by the Log, and the Observations I made these 2 days when the Sun ras on the Meridian; for I find I have gone more Southerly by 12 Miles than the Log allows; I can't perceive any variation, and the Log is well kept, nd the half minute Glass good; I judge the Current fets to the Southward, now the Winds are the East, and the Moon near the full.

December 30. This Asternoon I took an Azi-

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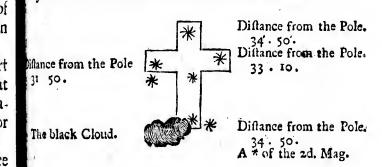
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muth, and find fix degrees ten minutes variation afterly, my Observation being of a good one; in Weather to Night at 9 a Clock, Nebeles major vas very visible in the Heaven, and seems to be a biece of the Milky-way broke from it; the Southm Constellations appear which are near the Pole d l Intarctick, the Camelion, the Bird of Paradise, the Tail of little Hydra, and the Water Snake, which re all finall Stars of the 5th and 6th Magnitude; 1  $\mathbf{d}$ o Pole star, nor any Star fit for Observation to . eseen within 15 degrees of the Pole, the Croers Stars of the first and second Magnitude are good for Observation, and are in this form when hey are on the Meridian above the Pole.



Some

SomeFouls flying to and fro, kind of Sea-gulls, and Gannet a black Sea-Foul as big as a Pigeon, and some large ones of that kind, three Tropick Birds flying over the ship of a grey Colour, with a long spired Tail as big as Pigeons.

Some Bonetto's taken to day; A great broad flat Fish like a Scate, following the Ship, called by the Seamen a String-Ray, having a long Tail and a sharp bow at the end of it, when it pricks a Man it puts him to much pain; they are called by some Cloke fishes, the lesser sort are good to

eat.

Fanuary 5. Variation of the Compass by an Amplitude in the Morning of d. 46 m. East; this Afternoon I brought the Ship to, and founded Course steere one hundred and eighty four fathom right down, day one main and had no ground; I being thwart of the Shoals and to strope of Brazil caused me to sound, I thought the Sea sun-rising by look'd whiter than usual, variation at Sun-set, 6d my Men in go 46 m. East; little Wind this Afternoon, at East by All the All North; I made all the Sail I could, Stay-fails, have quite le Steering sails, Boats sail and Bonadventure misen, Whales. all set to draw away Southerly, some Fowls fly. Tuesday, Fe ing over the Ship, which we call Men of War; his Morning they prey on flying Fish, &c.

January 14. Few Fish seen; now and then a Sea-sowl flyin small Bonetto taken, small Sea Fowls call'd Black Weeds for sin Nodies, flying to and fro, and 2 Curlieus flying hiving by the

to the Eastward.

January 24. I judge a Current sets out of the light young River of Plate; for I find nine miles more to the g as an ord Southward than I expected; I have been careful our, and wer of my Course and Variation, which is but 18th troops a fresh

20m. East am open o founded to and forty fi East, all Ni west and by

Monday, a Clock the gale; at ele Compais, at der, lightning cold hasey v driving in th brown colo

food to the S noon; many

20 M

am open of the mouth of the River of Plate; am open of the mouth of the River of Plate; founded to Night, but no ground at one hundred and forty five Fathom; Wind at North and by East, all Night close Weather. I steered Southwest and by South.

Monday, January 31. Calm this Morning; at 8 a Clock the Wind came to the North-weit a fine gale; at eleven a Clock the Wind went round the Compais, and came to North; with much thunder, lightning and some rain; very dark Clouds, cold hasey Weather; several spots of Sea-weeds driving in the Sea, and a great many Sea-sowls of a brown colour swimming in it: smooth Water, course steered is South-west by my Compass. This day one main shroud and one fore shroud broke, and to strope of the Main jeer block; Variation of Sun-rising by an Amplitude is 19 d 43 m. East; all my Men in good health, God be praised.

by All the Albycores, Bonetto's, and flying Fishis, have quite left the Ship; no Fish to be seen but

ien, Whales.

fly. Tuesday, February 1. Cloudy foggy Weather ar; his Morning, and little Wind at South-east. I shood to the South-westward; I saw abundance of sea-sowl flying to and fro, striking about the lack Weeds for small Fish, several beds of Sea-weeds ring lriving by the Ship; it fell calm this Afternoon; many small Shrimps about the Ship, and the light young Seal-fishes close to it; they were as the sig as an ordinary Spaniel-dog, of a black co-eful our, and went away to the Westward. This Afternoon a fresh gale at South south-east; I steer'd on,

away Southward and by West by my Compass: the Air as cold here on a sudden, as 'tis in Eng. land in September. These Seas are very much ex. posed to sudden Gusts and variable Winds; for the Wind has run round the Compass twice or thrice a day these 3 days; the Sea water is chang. ed whiter than the usual colour, whence I conje. Eture I must be in Soundings: also by my account of Longitude, kept from the Lizard, I am not black, othe 1 d. 28m. off from Land, according to Mercator's fishes like to Draught. This Evening I founded, but had no Bull dogs, v ground at 130 Fathom; Wind at South a fine time, and le gale: I steer'd in West-south-west; at ten a Clock at diving at to Night; I observed the Water to riple as if it Asternoon a were over a shoal, and had ground at seventy of 41 degree Fathom; I caused the Head-sails to be braced to from the Liz the Mast, and sounded; fine red Sand inclining and in Mer to grey at 70 Fathom.

grey at 70 Fathoni.

Leagues; M. February 2. Meridian distance from the Lizard, 616 Leagues West 839 Leagues, 2 Miles 10; Longitude at 36 d. 34 m. Noon from the Lizard West 49 deg. 43 m, little This Night Wind this Asternoon, and fair Weather; we lay it would be from times one way, sometimes another; Winda in what Latin South-west and by South, a small gale. I hosse this Coast of out my Boat, and sounded, but no ground at up ward of the Fathoms: I tried the Current with my Boat, by instructions, found little or none worth notice: the Sea ripla and a Trade in many places; I founded on them, but no ground old me I mig at 108 Fathom; feveral Beds of Sea-weed driving inderstand the to and fro in knots; these Weeds are five or it was his who Fathom long, in strings, with broad Leaves on he had been l them of a brown colour; at the root hangs a Clo Coasts from to or Rock of 2 or 3 pound weight; several Second thorow the

Fowls flyi ing quite o their Birdi not movir very like to and Whale.

February weed, and

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Fowls flying and fwimming near the Ship; it being quite calm, my Men kill'd some of them with their Birding-pieces, for they were very tame. not moving at the report of a Gun; they are very like to Sea-Gulls, and good meat: fome Seals and Whales feen.

February 5. Were seen several beds of Rockweed, and Sea Fowls, much like Gannets: fome black, others white, pied, and grey; fmall Sealfishes like so many Dogs, for their Heads resemble no Bull dogs, which they'll keep above Water a long fine time, and look at the Ship; they are very nimble lock at diving and skipping out of the Water. This if it Asternoon at seven a Clock I was in the Latitude enty of 41 degrees South; and in Longitude, West ed to from the Lizard of England, 52 deg. and 50 min. ning and in Meridian distance from the Lizard 895 Leagues; Meridian distance from Port Praya; zard 616 Leagues, Longitude from Port Prava, West, de at 36 d. 34 m.

little This Night I advised with Don Carolus where e lay twould be best for us to hale in with the Land, nd an what Latitude, or at what Cape or Harbour on pished this Coast of America, being now to the Southt 140 ward of the River of Plate, and according to my , but instructions, before the Coast to be discover'd. iple and a Trade fet on foot with the Natives: He out old me I might do what I would, for he did not iving inderstand the Coast, nor where 'twas inhabited;

or fit was his whole Discourse in the Voyage, that es one had been here in a Galley, and knew all the Clo Coasts from the River of Plate to the Streights, See and thorow the Streights all along the West Coast FOW to

to Baldavia and Lima; being arrived here, as far as I can perceive by him, he knows nothing of the matter, nor any thing appertaining to Navi. garion; all I can fancy of him is, that he may have liv'd with a West-Indian Governour, whom he has heard talk of these Parts.

February 8. At 7 a Clock this Afternoon the Wind came to the West-south-west, a stiff gale. I stood to the Southward; much Rock-weed pass'd by the Ship to day, and feveral Sea-Fowls feen: very cold for the Season, being Summer, which Don Carolus began to complain of, and told me, He did not think we should have come so far Southerly; I shew'd him by my Plates how far we were to go through the Streights, and along the West Coast; he said, The Spaniards went to Chile a nearer way; I answered, 'Twas into the River of Plate, and over Land, which we could founded, and not do.

My Company are all in good Health, but some Land makes of a puny Race grow weak in being so long on Sea side, but shipboard; I give them Vinegar once a Week, ooks reddish which is very good to prevent the Scurvy in their which was Ca Mouths; also I order'd every Man to wash his ne about tw Mouth, Face and Hands before he receive his land at the Face daily Allowance of Bread, and appointed one The Land Man to see it persormed; If any neglected it, the ne, Southwest Steward kept their Allowance for one day; like er side, but up wife every Man is commanded to keep himsel he top, a little clean, and free from Lice, upon for seiture of his dain Hills and V ly Allowance to the Party accusing him; by the drdinary heigh means the Ship is kept neat, sweet and clean, the raced the Her the dirty foggy Weather is a great Enemy to this hour till the Discipline.

Februar fifty and with fome weed, Sea European S Fowls flying Sea, swimi the Aftern gale and a close haled to Windwar now it blow fleers along the Sea run.

Monday, 1 past eight th West of me Sand; Still I

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February 19. I founded often to day, and had fifty and fifty three Fathom; dark black Sand. with some bright fine Sand in it; Beds of Rockweed, Seals, and Porpoifes, fuch as are in the European Seas, feen to day; three Whales, many Fowls flying about, and fome Penguins in the Sea, swimming near the Ships; at 2 a Clock in the Asternoon the Wind was at E. b. S. a stout gale and a great Sea; I flood to the Southward, close haled under my Courses; the Pink half a Mile to Windward of me under her's; she out fails us now it blows, and puts us past our Topsails, and seers along with us with only her Main sail set: the Sea runs lofty.

Monday, February 21. At a quarter of an hour past eight this Morning, I saw the Land bearing West of me, and distant about 4 Leagues: I founded, and had 21 Fathom; small Stones and Sand: Still I stood in West by my Compass. The Land makes but an ordinary heighth towards the Sea side, but farther up, round high Hills, and looks reddish; the Northermost Land I could see, heir which was Cape Blanco, bore North north west of his ne about two Leagues, and the Southermost

his Land at the Face of the Cape.

one The Land trented away to the Southward of the ne, Southwesterly, of an ordinary height by the Walike er side, but up in the Land are Hills like Tables on nfel he top, a little higher than the rest, the Land makes dai Hills and Valleys all along, like Downs of an the dinary heighth; at nine a Clock this Morning I the raced the Head-fails to the Mast, and lay so half this hour till the Fog cleared up, that I might make

the Land plainly, being within five Miles of the shore side, which made a kind of Bay, breached on the shore: I sounded, and at 17 Fathorn had rough ground, with some small stones drawn up in the Tallow of the Lead, which was dinted by Rocks: Between nine and ten a Clock there was a fine clear by which I faw the Land very plainly; it look direddish like feared Grass; no Woods to be seen on any of the Hills or Valleys, but all as bare as the Grass-Downs in England: I durft not fend my Boat a shore for fear of loting her in the rog, or being funk at the shore, whereon the See breaks very much: the Wind was at North and by East, a fresh gale blew almost along the shore, and being out but 24 hours before, made the Sea run high: the Land lies by the Sea side South fouth-west, and North north-cast, as far as I could fee to the Southward; no fire or fmoak to be feen upon the Land.

Course made true after several Courses, from vesserday Noon, till to day at nine a Clock, when I was 3 Leagues off the Land; true Course is West 6 d. 50 m Northerly distance; failed sifty m les seven tenths. Departure West, 50 miles, dissernce of Longitude West 1 d. 15 m. dissernce of Latitude North 0 d. 6 m. Latitude by account is 47 d. 14 m. South; no Observation these three

days, being foggy Weather.

Meridian distance from the Lizard West 1012 where. On the Leagues 1 mile, 7 tenths, Longitude at 9 a Clock from the Lizard West, 61 d. 56 m. 6 tenths sland, from at Longitude from Port Praya Weg, 44 deg. 38 m.; Caribbe-India tenths. Meridian distance from Port Praya West craggy Rock,

735 Leag Compass

I concl bour in th we faw, w it, which I Port Defier and severa

Thur [day West north the Top in ing no figh Port Desier Morning, Ship; I wer Northward. about two side is in B places the North end o copling up grey-colour' runs here, b a little more of the Main about it by t low and fand and Hills, where. On t Sea Fowls; v fland, from at Caribbe-India

735 Leagues, 1 mile, 5 tenths. Variation of the Compass Easterly, 18 Degrees.

I concluded we had shot past Port Desier Harbour in the Fog; for the Islands and Rocks which we faw, were Penguin, and other Isles lying about it, which lies to the Southward of the Harbour of Port Defier. Many Seals. Penguins, pied Porpoifes,

and several Sea Fowls, &c. seen to day. Thursday, Febr. 24. Hasey Weather; Wind at

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West north-west, a fresh gale. I sent Men up to the Top mast head to look abroad; this Morning no fight of the Pink, I judge she must be in Port Desier: I weighed about 8 a Clock this Morning, and flood to the Northward with my Ship; I went in my Pinnace along the shore to the Northward, whilst the Ship sail'd in the Offing, about two Leagues from the shore: The shorefide is in Beaches and scatter'd Rocks; in many places the Tide of Flood was with us: At the North end of Seals Bay, lies a small rocky Island copling up like a Haycock. It is cover'd with grey colour'd Fowls Dung; a very strong Tide runs here, between the Island and the Main, 'tis a little more than a Cables length from the Point of the Main; there's a great many broken Rocks about it by the Sea-fide. here the main Land is low and fandy, up the Country in large Downs and Hills, without Wood or fresh Water any where. On this Island are abundance of Seals, and Sea Fowls; we gave it the name of Tomahauke Ilock sland, from an Indian Club lost here, called by the Caribbe-Indians at Surinam a Tomahauke; 'tis all a Well craggy Rock, a little bigger than Seal-Illand, and

to

is eight Leagues to the North north-east: distant from it to the North-west of this Island, is a deep rounding Bay, call'd in the Charts Spiring's Bay, wherein lie three small Islands of an indifferent height: the Land in the Country over this Bay. is large high Hills; Rocks lie in the North part of the Bay, I cross'd it in the Pinnance, and sound. ed as I went over, and had 21 Fathom, rough ground in the mid way: 'tis seven Miles broad. and near 3 Leagues deep; it rounds with a turning up to the North-north westward, behind a Point farther than I faw; upon which rounding Point stand black Rocks, which make like a ragged Building, and a Tower in it. At my coming in with the Land, I fail'd close under this shore with my Boat; the shore is steep, black Rocks, and low Bays, with Pebble stones and fandy Beaches: green Grass on the Hills, no Wood nor fresh Water to be seen; at the North east Foint of this Spiring's Bay, the Land makes out full like a fore. land; a fair high Land in large plain Hills, with Mands, and w fandy small Bays: at the face of this Foreland makes a great lie six rocky Islands; one is a Musket shot off the Tide, rever Main, the rest farther off; the outwardmost is the ther Tide: to biggest, a Mile from the Point of the Main, and Bay, four L is called *Penguin Island*; it is indifferent high at the per in the Northe ends, and low in the middle; 'tis near three Port Defier, whi quarters of a Mile long, North north east and learing North South-fouth west, and near half a Mile broad East ant about 3 I and West; it is all craggy Rocks, except in the lay are steep we lowest part of the middle, which is gravelly, and in the upper part the Summer time has a little green Grass; the great own a fourth black Gannets lay their Eggs here, and the Pen. Ig down on it guins,

guins, all Rocks in F the tops of of it; the n Fowl upon 1 them that no each Creatur the fix Islan frequent the them, and to guins, in left taken three would have in Flocks to two or three hort Trunch the Boat; the not avoid 'em to the Northy broken Rocks

guins, all over the Island upon and under the Rocks in Holes. Seals lie all about the sides on the tops of the highest Rocks, and in the middle otit; the number of Seals, Penguins and Sea-Fowl upon these Islands, is almost incredible to them that never faw them; for the multitude of each Creature that's there daily, is numberless: the fix Islands are full of Seals, but the Penguins frequent the biggest most. I put ashore at one of them, and took into my Boat three hundred Penguins, in less than half an hour, and could have taken three thousand in the time, if my Boat would have carried 'em; for 'tis but driving 'em in Flocks to the shore, by the Boat side, where two or three Men knock them on the head with hort Truncheons, and the rest heave them into the Boat; the Seals will run over a man, if he does not avoid 'em: mean time the Ship was standing to the Northward: About 2 Leagues off many broken Rocks and foul Ground lie among these Mands, and without the Point of the outermost it th nd makes a great Ripling, which is the strength of he the Tide, reverted from the Islands against the oher Tide: to the Northward of these Islands is Bay, four Leagues long, and a League and half nd leep; in the Northwest thereof lies the Harbour of Port Defier, which we could see from Penguin Islands. ee earing North-north west from Penguin Island diaft ant about 3 Leagues: About the middle of this By are steep white Cliffs, near two miles long: he he upper part of the Cliff has black streaks in own a fourth part, caused by the Water draing down on it: the Land is plan on the top of n. thefe 15,

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these Cliss, but further into the Country high rounding Hills and Downs, and toward the Wa. ter fide low. On the South part of the Bay are craggy Rocks on the Main like great Walls; near the sea there's a sandy Cove, to hale a Boat up in foul weather: the Cove is just under these Wall-like Rocks.

Saturday, Feb. 26. Fair weather, the Wind at West, a stiff gale. I kept a Light out all night, that the Pink might fee if she came along; the first part of the night a great Fire was made on the shore for the same purpose: Cold weather: This morning at 7 a Clock I manned both my Boats, and went into the Harbour; the Ship rode moored at the Harbour mouth, within the Muscle. bank, in flx Fathom at low water: I fent my Men upon the Hills on the North-shore to look a. broad for the Pink, and made a Fire in the dry Grafs, that she might see the smoak if she were thereabouts, but they could not fee her. I found. ed the Harbour in many places to day at low water, and found it a very good one for great Ships to ride in, provided they have good Cables and Anchors. I fearched the shore, but sound no Wood, and very little fresh water. On the Hilly and large Downs, very few Bushes, but dry, long Grass growing in Tuits and Knots. The Soil is gravelly and dry, in some Valleys well mixt with I have disco black Mould: no People, fire or smoke but our fowls and oth own, to be seen. I saw several places where they them hereatt had lain, behind Bushes upon Grass, which they ning to blow had plucked up, and that they had made small fowls, and w tires, and roasted Limpets and Muscles: There vided all thin

lay Wooll, of Flints. vesterday had been a where, exc This day w bour, so tha a half into Rocks grov green leave: greenPeafe. tangled tog much like ] low flowers: but grow in These Herb. Sallad to re Scurvy; for my Men wer of very good and an Islan Fowls: In th Ducks, forne and other fea Rocks and B these Islands. Shags in thei ir

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lay Wooll, Feathers, bones of Beasts, and shivers of Flints. I went to a Flag which I left on a Hill vesterday with Beads at it, but finding no body had been at it, let it stand. No Beasts seen any where, except two Hares running over the Hills: This day we were taken up with viewing the Harhour, so that we did not advance above a mile and a half into the land. In the Valleys between the Rocks grow abundance of wild Peafe, which had green leaves and bluish blossoms, both tasting like greenPeafe leaves in England, growing on vines and tangled together; also very sweet smelling herbs much like Tares, very green, and white and yellow flowers; likewise green herbs much like Sage, but grow in knots near the ground like Lettice: These Herbs with the Pease leaves, make a good Sallad to refresh such as were inclining to the Scurvy; for want of which fresh Trade several of my Men were falling into it. Here are abundance of very good Muscles and Limpets on the Rocks. ndand an Island frequented by many Scals, and Fowls: In the River were pied Divers as big as Ducks, some of 'em grey and black shags; Ducks no and other sea-Fowls breed on them amongst the illy Rocks and Bushes. To day I went upon one of ong these Islands, and caught as many young black il is Shags in their nests as loaded the Pinnace; when with I have discover'd better the particulars of the our fowls and other things feen here, I will mention they them hereatter: Night coming on, and it beginning to blow hard, I went on board with Herbs, mal fowls, and what else I had got to day; and dilier vided all things equally among the Company, the lav Boys

velly and fa

Boys Dividend being as large as my own, or any Man's; it blew very hard this Evening, and look. ed very black in the South west, an ordinary gale: I kept a Light out all Night in the Poop for the Pink: this day all the Company eat of young Seals, and Penguins, and commended them for good Food: I judged this a very fit Harbour to fit the Ship in, for the main Mast must be un. rig'd, and a new gang of shrouds fitted, and Bal. last be had; and it might be a means to fall in with the Piak; for from the tops of the Hills we could see a great way into the Sea; so that if she should come near the Coast, we could not miss her.

We found 2 Springs of fresh Water, one in a Valley close by the Water side, in a gully above the Ship, half a mile up the River; the other up a Valley between the Rocks, just a brest where the Ship rode, about half a mile from the River's fide, right from Coopers-Bay in the same Valley; these Springs are but small, and the Waters a little brackish or saltish; for in the dry Valleys the Earth is naturally faltish; the Ground and Rocks have a white rhime of Salt-petre hanging on them: I went into the Land 2 miles North west, and faw the Country hilly, and dry Land without Wood or Water; fome craggy Rocks and Valleys, low, but dry and of a Salt-petre nature; here and there some Bushes with prickly Branches, and Leaves like White Thorn Bushes in England; the lesser Bushes have small dry Gauls growing on them, with a small dry Seed as hot in the Mouth were feeding as Pepper; not a Tree to be seen: the Soil is graway; I had a velly

ed Grass gr but faw no no forts of mong the b fign of any fee a great and Downs those that v far in an ho to day we very like De but no Horn aloft, whiti Flanks: who them they fe ed another,

Tuesday, A Wind at Nor Forenoon I fil dug them de white Cloth the Land, w the Inhabitan glass, a Knife the People of I was willing what they h Hills this Afte Fire, nor Smoa not get near e (-

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velly and fandy generally, with tufts of dry feared Grass growing on it: I digged in several places but faw nothing but gravelly Sand and Rocks; no forts of Metals or Minerals; I looked also among the broken Rocks for Metals, but faw no fign of any: From the tops of the Hills I could fee a great way into the Land, which is all Hills and Downs like Cornwall: toilfom travelling to those that were not used to it; I could travel as far in an hour as many of my Men could in two: to day we saw nine Beasts seeding on the Grass, very like Deer, but larger, and had longer Necks, but no Horns; reddish colour'd on the Back and glost, whitish under their Beilies and up their Flanks; when we had got within a Furlong of them they fell a neighing like Horses, one answered another, and then all run away.

Tuesday, March 1. Fair Weather this Morning, Wind at North, a fine gale and a cold Air. This Forenoon I filled the Casks out of the Spring, and dug them deeper: I fet up a long Pole with a white Cloth upon it, on a Hill near a mile into the Land, where 'twas most likely to be seen by em: The Inhabitants; with it I left Beads, a Lookingglass, a Knife, a Hook and an Hatchet, to invite the People of the Country to shew themselves, for eys, I was willing to see 'em, that I might discover and what they had; but though I went about the and Hills this Afternoon, I could see neither People, the Fire, nor Smoak. I saw three Ostriches, but could on not get near enough to make a shot at them; they were feeding on Grass, and at first fight of me ran way; I had a Greyhound with me, which I turn'd

iemble a Lio

loose upon 'em, who gave chase to one of them. and at last gave her a turn, which she recovered. took to the Hills, and so escaped: they are grey coloured, and larger than a great Turky-cock in England; they can't fly, but have long legs, and trust to their running. I saw two handfuls of Wooll among the Grass, where the Natives had made a Fire; it was Spanish red Wooll, which for him; Night coming on, I returned on board; at teen Foot in I 7 a Clock this night the wind came to the North, a fresh gale, and hasey weather; no sight of burteen foot the Pink to day: I could see a long way on the swe foot, and a Sea; at 10 a Clock it rain'd, and the wind came you come to to the South East.

Friday, March 4. Fair weather this Morning, the great ones the wind at East, a fine gale, I went ashore and best Weapon s filled fresh water, the rest of the seamen sitted Rig. Saturday, Miging. This day at 12 a Clock I went with both the South-west, a Boats, and forty Men to Seal Island into the har-lore to slay so bour, every Man with his Staff and Club: We and some piece landed, drove the Seals up together, befet them deal boards as round, and in half an hours time killed 400 mm it: the Manuscounty and old; striking them on the head lamb, and is we kills them presently. As soon as they were knockt is a little salt, down we cut their throats, that they might resid were all bleed well whilst they were hot; then loading both lams, who as where the Tent was, landed, and laid them upon while Lambs the Rocks; to night the Boat fetch't them all of while four or the state of the great Male Seals are as big as Calls, and recess that come femble

Faces, as we ike Lionesse. like a Horse, all over his h med, for thei point, where grow out of t nd 'tis labou n,

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semble a Lion in their shaggy Necks, Heads and Faces, as well as in their Roar; the Females are like Lionesses before, only they are hairy all over like a Horse, and smooth, and the Male is smooth all over his hind parts; their shape is very deformed, for their hind part tapers till it comes to a point, where grow two Fins or Feet, two more grow out of their Breast; so that they can go on Land a great pace, and climb Rocks and Hills of agood height: they delight much to lie and fleep alhore; some are very large, upwards of eigheen Foot in length, and thicker about than a But n the Bilge, and excessive fat: there are thousands fourteen foot long, the common fort are about we foot, and all very fat; they'l gape at you when you come to them, as if they wou'd devour you, nd 'tis labour enough for two men to kill one of he great ones with a Hand-spike, which is the est Weapon for that purpose. and

Saturday, March 5. Fair Weather, Wind at the South-west, a fine gale. This morning we went ahore to flay some Seals, and cut the Bodies in good We and some pieces, and salced it up well in Bulk on em Deal boards ashore, that the Blood might drain 100 from it: the Meat looks as well and as white as ead lamb, and is very good Victuals now, but when is a little falt, it will eat much better: those we ckt reis'd were all young Seals, for they fuck'd their oth Dams, who as foon as they come ashore bleat, im-Bay rediately come her young ones, and bleat about pon crlike Lambs, and fuck her; one old Female of ikles four or five, and beats away other young relates that come near, whence I believe they have hble four

four or five at a time; the young ones which we killed and ear, were as big as a midling Dog; We cut the fat off the Great ones, and made Oil of it for the Lamps, and other uses in the Ship; the Oil of the young ones we fried, and eat with our Provisions; it is very fweet and good to fry any Food with: our Men will have it to be as good as Olive Oil; most of my Men to day gather'd of those green Pease leaves and other Herbs for Sal. lads, which some eat raw, some boil'd; it is re.

freshing to their Bodies.

Sunday, March 6. Blowing Weather, Wind at West: This day, after Prayers, I went a shore on the South fide of the River, and travell'd eight miles into the Land, South west and by West, ha. ving twelve armed Men with me; my Lieute. nant went up the River, in the Boat, nine or ten miles, to fee for People that way; my other Lieu. tenant went on the North-side with ten armed Men. to see for People and view the Land: I found in my Travels one of those great Beasts, like a Deer, dead and whole, the Vermin had not touched him; all his Back had pretty long Wool, of the colour of dried Rose leaves, and down his fides, his Belly white Wooll; he was as big as a fmall Colt, he had a long Neck, a Head like a Sheep, so was his Mouth and Ears; his Legs very farthest, and long, and Cloven footed like a Deer, a short of People, or bushy Tail of a reddish colour; no Horns nor e as far as we c ver had any it was a Male: I believe these Beasts Kites, which are Peruvian Sheep; (Guianacoes 1 had his Paunch Birds like Spa opened, and searched for the Bezoar stone in it Humble-bees and in the Pipe to the Stomach, I turned them in Animals runn

fide outwar Indian Spar Bezoar-Hon this, which velling to d times ten. get near en like young nine Offrich come within at them, bu faw a Fox, a which the G like English of a Tail, h without Hai like Coneys Bushes like V alandy grave very high, 1 nothing but fresh water is Winter-time veral places d occasioned b Here are no F lS

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fide outward, but found none. I had heard Weit Indian Spaniards fav. that they have taken the Rezoar-Hone of Guianacoes, and therefore opened. this, which I take to be the same Beast. In travelling to day I saw several Herds of them sometimes ten, thirty or forty together: I could not get near enough to shoot at them: They neigh like young Horses, and so wander away. I law nine Ostriches, but they would not suffer me to come within shot of them: I let the Greyhound at them, but they out-run him up the Hills. We law a Fox, a wild Dog, and five or fix Hares, of which the Greyhound killed one; they are shap'd like English Hares, and much larger, and in lead of a Tail, have a little stub about an inch long, without Hair on it; they have holes in the ground like Coneys: no Woods to be feen only a few Bushes like White-Thorns. The Land is dry, of euasandy gravelly Soil, in large rounding Hills, not ned : Ivery high, but in Downs and Valleys, bearing nothing but Grass; here and there are gullies of like fresh water in the Valleys, which is made in the ool, Winter-time when the Snow dissolves. veral places of falt water in the Land, which is occasioned by the natural saltness of the Earth: as a te a Here are no Fruits nor Herbs. When I was at the very farthest, and on a Hill, I could not see any sign hort of People, or Woods, but still Hills and Vallies r e sfar as we could descry; no Birds to be seen but easts Kites, which are like those in Europe, and small nch Birds like Sparrows, and Linnets; some Flies and Humble-bees here: we faw fome fmall four footed ning Animals running in the Grass; speckled-Grey, fide Shaped

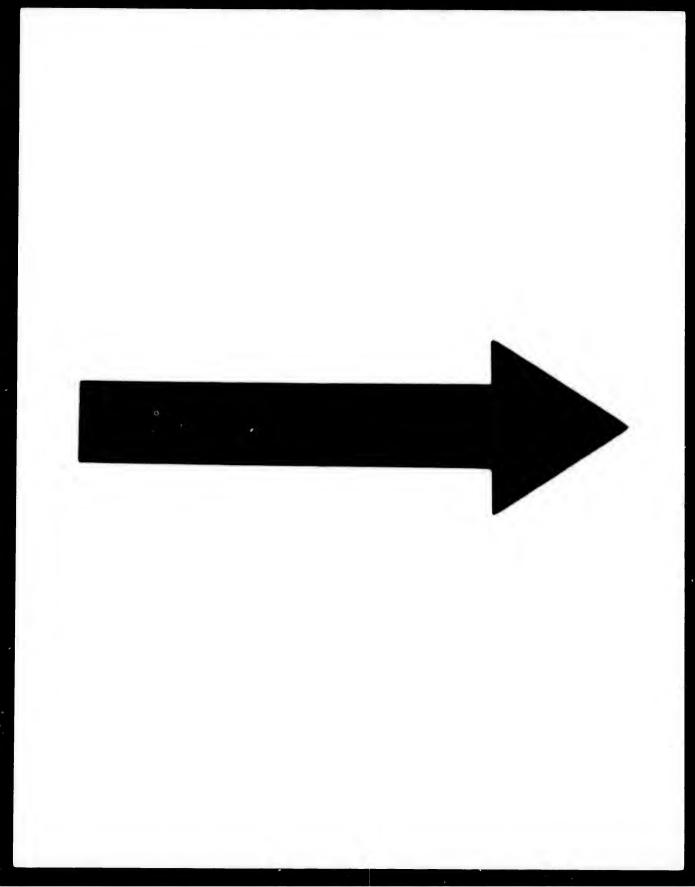
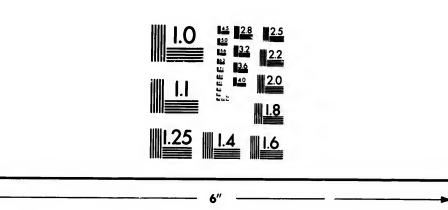


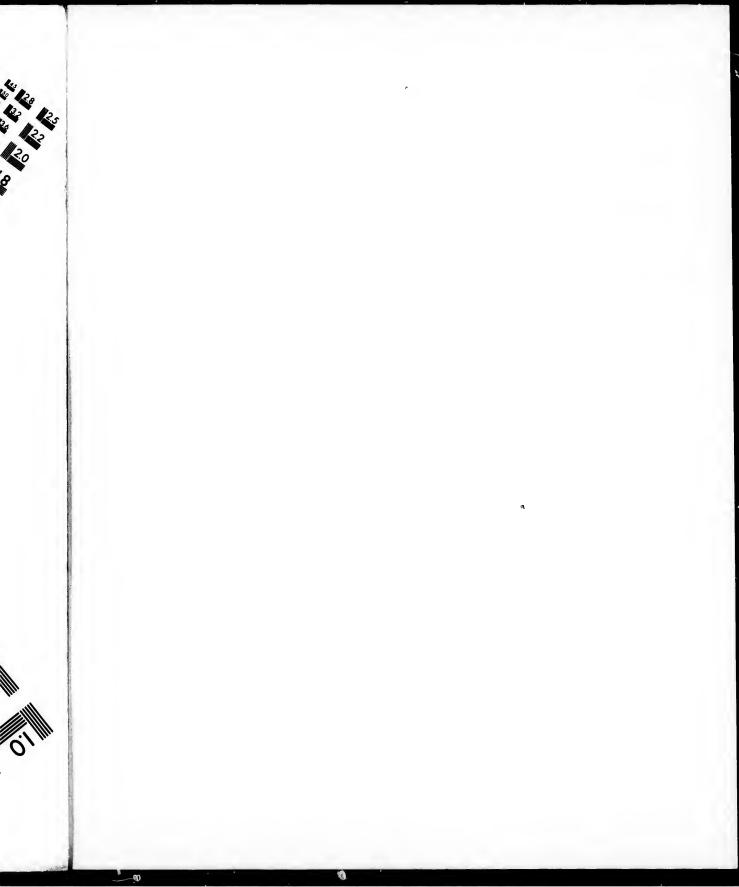
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ferent goo and some Offriches, tures like E neral or Ma in any Gul Grains of found in Gr is found in hundred Le Petre hangs akind of Flo with were as I saw Smelts on the shore Oyster, or or Crab, though all. While Seal chased nd like a Mu ressed it, w ent good. Her naintain all ti hat live upo atream fat, a ave seen Seal kir Heads ab

douths. Sunday, Mar West, a trest went up the en armed : I

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shaped like a a small Creature in England called an Eft, Newt, or Lizard; no Adder nor Snake, nor any venomous Creature: Cattle would live here very well, fuch as Horses, Cows, Sheep, Goats, &c. Evening growing upon us, I returned to the ship. and 'twas within Night when we got aboard our Boat, and ten a Clock when we enter'd the Ship: I found on Board my Lieutenant that went up the River, but they which went on the North-side were not come back: up the River they faw five fmall Islands, which had Sea Fowls on them and Bushes for fewel: the River grows broader up. wards, and has feveral Rocks in it: on the shore they saw Guianacoes, Ostriches and Hares; no People, Fire or Smoak: they faw where people had been, and Fires made, and Muscles and Lumpets roafted: No fresh water, nor Wood, nor any Metal or Mineral; the Land hilly with Grass on At 12 a Clock at Night those that went on the North side came aboard; they had been about 8 miles into the Land North-west, and faw no people, but found where people had been, and made Fires in the Grass, and Grass laid to fire the Bushes; also where some had lain on open places, and fet little Bushes in Half Moons, to shell ter them from the Weather: on the top of a Hill des what Ci they made a fire with Grass, to see if any would answerthem; they sat down by it all day, but could fee none made any where elfe. The Land is in rounding large Hills, not very high, but like Downs, as the Coast of Torkshire about Burlington no Woods nor Trees seen, nor Fresh Water here and there a Bush growing in a Valley; indif

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ferent good Grass; the Soil gravelly and fandy and some Ridges of Rocks. They saw Guianacoes Offriches, Hares and Kites: several little Creatures like Eits; no kind of Fruit or Berry, Mineral or Metal. I charged them as they travelled in any Gullies where water had run to fearch for Grains of Gold, or other Metal. &c. for Gold is found in Grains in such Gullies and much Gold is found in the Land on the other side, not two hundred Leagues distant from us; much Salt-Petre hangs on the Earth where Water has been in akind of Flower: the Plathes of water they met with were as falt as Brine, which the Farth made. I faw Smelts here eighteen inches long lying dead on the shore; but hitherto have not seen one Oyster, or other Shell fish, Crawfish Lobster or Crab, though 'tis possible the place may have 'em all. Whilst we were standing by the Water side, Seal chased on shore a Fish as large as a Mackrel indlike a Mullet; one of the men took it up, and rested it, when he came on Board 'twas exceleen, ant good. Here must be a great quantity of Fish to d to maintain all the Seals, Penguins, and other Fowls open hat live upon nothing else, and yet are all shell aream fat, and innumerable in multitude; be-Hill des what Creatures we have not feen yet; I ould ave feen Seals in this Harbour swimming with kir Heads above Water, with large Fish in their

louths. like Sunday, March 13. Indifferent Weather, Wind gton West, a tresh Gale: The Air cold this morning. went up the River in my Boat with fourteen ndif enarmed: I past the Island, where the brushy eren Bulhes D 2

## 36 Sir. John Narbrough's Voyage

Bushes are, and where we took the young Shags: there the River grows broader, near a mile from the North shore over to the South, and continues that Breadth four miles: then it becomes narrower, and turns away to the Southwest: at this turning is an Island of a mean height, and Rocky, bearing some small Bushes and Grass: I went upon it, and saw a Post of sive foot long set up (it had been the timber of a Ship) with a piece of Board about a foot square nailed to it, at the foot of it one of my Men took up a piece of Sheet-Lead, and gave it to me, it had this Inscription graven on it,

## MDCXV.

EEN SCHIP ENDE EEN IACHT GENAEMT EENDRACHT EN HOORN GEARRIVEERT DEN VIII DECEMBER VER TROKEN MET EEN SCHIP D'EENDRACHT DEN X: IANVARY:MDCXV

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In a hole (which we the Hole) in it, but i 'twas not t on a Board Year and A brought aw place Le M pieces of Bo had been be the Tide : ? upon this In side of the l Trees to be coes in many the Hills no with Grass of three places deep, then A made excelle Tis very like People to be ken Rocks, f found neither ed farther und afteep high H of this rocky the course of Land all Grad Marle on the nor Boats on t feveral Creek

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In a hole of the Post lay a Latten or Tin Box, (which we found by a long Plug that fluck in the Hole) with a sheet of written paper enclosed in it, but so eaten by the Rust of the Box, that 'twas not to be read. I cut out with my knife upon a Board the Ship's name, and the Date of the Year and Month, which I nailed to the Post; and brought away the Lead with me, and named the place Le Mair's Island: We found on it several pieces of Boards, of the Wrecks of some ship that had been burned; they were drove up here by the Tide: The people of the Country can't get upon this Island. From hence I went on the North side of the River two miles into the Land; no Trees to be seen, but many Ostriches and Guiana. coes in many places. The Soil is marly and good, the Hills not very high, but plain large Downs, with Grass on them all over. Digging in two or three places I found fandy dry Ground near a foot In my opinion it might be deep, then Marle. made excellent Corn ground, being ready to till: Tis very like the Land on New Market Heath; no People to be feen. I fearched the Gullies and broken Rocks, for Grains of Gold or Minerals, but found neither. I return'd to the Boat again, rowedfarther under the shore, landed, and mounted afteep high Hill to view the Country. On the top of this rocky Hill grow small Bushes. I could see the course of the River a long way further, and the land all Grass; here and there a white spot of Marle on the fide of a Hill; no people to be feen nor Boats on the River: I came down to the Boat: everal Creeks run from hence a mile or two into

D 3

the Land. I cross of the River to the South east shore; we made the Boat sast in a Creek in a Valley, and went all hands up the Land 3 miles; we saw many Guianacces and Ostriches, but could not come within shot of them. I saw the Footsseps or sive Men that had been upon the Oar; I measured my Foot with them, which was larger and longer by half an inch than any of them; we could not see any people: it being near Night we pluckt up Grass, and laid it to the best advantage for shelter. Here we lay all Night, keeping Watch two by two. Cold Air to night, wind at West.

Monday March 14. Fair weather, but cold. This morning by day I ght we turn'd out, and march'd into the Land Four miles S. W. b, S. We could not find any fresh water. We made Fire on the Grass but saw no sign of any People: we faw Guianacoes. Hares, Foxes, wild Dogs pretty large and a grey Cat, like an English one, running un the Hills: to day we caught an Armadillo; the Dogs put her to ground: they have holes like Coneys; we foon dug her out, 'twas as big as a great Hedg heg, and not much unlike one. The Armadillo is cased over the Body with a shell, flutting one under another like shells of Armour: the Dogs cou'd not hurt her. We saw Rats in many places, and a kind of Polecat, with 2 white streaks on the Back, all the rest black: our Dogs killed two of them: they stink much, several Offriches, some Partridges and many Kites: the Land in fair Hills without Wood or fresh water: The foil is a fandy Gravel, with Grafs all over it: no Mineral

Mineral or ed to our E miles long, more than Island of a Grass growi upon it : th Soil: 'tis tw the Greyhou and we faw it is adjacent the River fro and went abo west, a stout North. I can Canoas or oil March 24. We fetcht al hip ready to ide to the per lock, standing een built the he top of it as ear 40 foot his lie little lum orth notice, th stick grow e Countries les, wou'd n ere are Buthe fore night I ip fitted with

oked along th

Mineral or Metal seen. This afternoon we returned to our Boat, and went through a Creek two miles long, which is dry at Low Wnter, and not more than thirty foot broad. It makes a fair Island of a mean heighth, plain on the Top, and Grass growing all over it, but no Wood nor Water upon it: the greatest part of it is a fandy marly Soil: 'tis two miles long, and half a mile broad: the Greyhound killed two Hares on it presently, and we saw above twenty. I call'd it Hare Island: it is adjacent to the South Shore; eight miles up the River from the narrow, I went down the River and went aboard. This Evening cold Air, wind at west, a stout gale: towards morning it came to North. I cannot perceive the Indians have any Canoas or other Boats here.

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March 24. Blowing weather, wind at west. We fetcht all our things off the shore, and got the hip ready to fail. I went athore on the South deto the peeked Rock, and found it a natural lock, standing on a small round Hill, as if it had een built there by Man. It hath a Cleft on the hetop of it as big in circumference as a But: 'tis ar 40 foothigh above the Hell it stands on about lie little lumps of Rocks. I faw nothing else orth notice, fo I returned to the Ship; the bigof flick growing in or near this Harbour, or in e Countries as tar as we went, which was 20 lles, wou'd not make a Helve for a Hatchet, but ere are Buthes which will ferve for firing at Sea: fore night I had all things on board, and the er: in fitted with intent to fail next morning, and no sked along the Coasts for the Pink, till I arrived ral

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South; on

at Port St. Julian Harbour: fresh Water is scaree in Port Defier Harbour in the Summer time; the places from whence I fetched Water, are small Springs on the North fide, out of which I filled near forty Tuns: the first Spring is on the North fide as you enter the Harbour, half a mile upa Valley, in a Gully of Rocks: it bears N. N.W. from the lower Rock: That we called Pecket's Well. is a mile up the River, within a Bow shot of the faltWater, tis in a Gully. The Land in these Valleys has very green and fweet Grass, and abundance of wild Peafe. small Nut-galls growing on the Buthes, but in no great quantity, and but few Bushes: Salt may be had here; for on the shore side and on the Rocks I gathered several handfuls of good Salt.

March 25. Gentlemen, Tou are by me desired to take notice, that this Day I take possession of Lizard, West, this Harhour and River of Port Desier, and of Penguin Isla all the Land in this Country on both Shores, for 47 d. 55 m. Se the use of his Majesty King Charles the Second, of gard. West, Great Britain, and his Heirs. God fave our King, the Lizard, W

and fired Three Ordnance.

Saturday, March 26. Wind at West, a sout 17 d. 30 m. Gale. I flood to the Northward: this morning April 1. The at fix a Clock when the Sun appeared above the Latitude of 4 East Horizon, the Moon set in the West Horizon, Patagonia. being eclipsed at London at Eleven a Clock, ten Saturday, minutes in the Forenoon, but here at fix a Clock Wind at Northirty minutes past, which gives four hours forty at Day light, minutes difference of time, between the Meridian and South and of London and the Meridian of Cape Blanco Coast lies; I which Cape lies in the Latitude of 47 d. 20 m er: black Sal

I faw this Westward. fervation: Heavens be my accoun 69 d. 16 m. London: If might have

presume my Cape Blan South, and

61 d. 56 m. Lizard, Well Port Defier

47 d. 48 m. S zard. West, 61

Variation

South

south; on the South-east Coast of America, where I faw this Eclipse 70 wegrees in Longitude to the Westward of the Meridian of London, by this Obfervation: I could not see the whole Eclipse the Heavens being clouded; I find Cape B'anco, by my account of Sailing to lie in the Longitude of 69 d. 16 m. to the Westward of the Meridian of London: If the Moon had not been clouded. I might have been exact in the Longitude, bur I presume my Account is not much out.

Cape Blanco lies in the Latitude of 47 d. 20 m. South, and in Longitude from the Lizard, West. 61 d. 56 m. and in Meridian distance from the

Lizard, West, 1014 Leagues, 1 Mile, 17.

Port Desier in America, lies in the Latitude of 47 d. 48 m. South, and in Longitude from the Lizard, West, 61 d. 57 m. Meridian distance from the Lizard, West, 1015 Leagues, 2 Miles, fr.

Penguin Island, or the plentiful Isles, Latitude 47 d. 55 m. South, and in Longitude from the Lirard, West, 61 d 57 m. Meridian distance from the Lizard, West, 1014 Leagues, 2 Miles.

Variation of the Compass here is Easterly

tout 17 d. 30 m.

April 1. The Sweepstakes off of Seal's Bay in the the Latitude of 48 d. 10 m. South, on the Coast of

zon. Patagonia.

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ten Saturday, April 2. Fair Weather this Morning, lock Wind at North north west, a fine gale. I filled fortist Day-light, and steered away South south-west. diamend South and by West by my Compass, as the anco Coast lies; I sailed along in twenty Fathom wa-20 mer: black Sand distant from the shore near three uth

Leagues;

to

and there a

Leagues: this forenoon at nine a Clock, I faw a small flat Island to the Westward of me, about a League off the Land; it lies in the Latitude of 48 d. 40 m. South; the Land against it is high, in large Hills, and some large copling tops; two Leagues more to the Southward, the Land is low. in a great Plain, and a Beach by the Sea side, but the shore against this Island is rocky. I was two Leagues East from the flat Island, and had twenty three Fathom black Sand; I haled close in for the shore, and sail'd within five Miles of it. All along from this Island to Port St. Julian, I sounded as I fail'd along, and had 18 or 20 fathom fine black Sand; the Land is low in a Valley; the Sea-shore is a Beach, here and there a Rock; it is in a long Beach for four Leagues. After you are to the Southward of the Flat-Island one League, the shore lies South-fouth-west, and North-north-east; at the South end of this Beach in-land are high round Hills, but at the Sea-side is a steep white Cliff, of an indifferent heighth, with a black streak in it: over the Cliff the Hill rounds up to the top, having some small black Bushes growing on the side: no Wood or Tree seen.

In this Bay is Port St. Julian; the Harbour's Mouth is in the middle of the Bay, but you cannot fee it without, for one Point shutting in the other; you must fend your Boat in to discover the Harbour at Low-water, and the Bar without, for its a barred Harbour: the Land in the Country over Port St. Julian, on the West-side, is high copling round Hills, like blunt Sugar-loaves on the top; its the highest Land I saw in all the Country,

the Land is as far as we it proved a St. Julian, Land, the west of me, Boat to disc was there, w ny Lieutena ind Water er nor any fign paired of ev vere frustrate he fuccess of hought 'two stormy Sea earch out, a round any w ospicions I so hem of the g aptain Drake hen in those igators; and brune, who b en, if we wo rme, I wou an my felf in de fast, a sma ater ebb'd ne near nine Lea

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and there are no fuch Hills be ides on the Coast: the Land is plain to the South, without any Hill, as far as we could fee at this time : this Afternoon it proved a Calm; I anchored in the Bay before St. Julian, in twelve fathom Water, black oary Land, the Harbour's mouth bearing West southwest of me, about two Leagues off; I sent in my Boat to discover the Harbour, and see if the Pink was there, which returned to Night at fix a Clock: my Lieutenant told me there was a safe Harbour. and Water enough for a bigger Ship, but no Pink, nor any fign of her having been there; now I depaired of ever feeing her more, after my hopes were frustrated here; nevertheless I doubted not he success of my Voyage, though the Company hought 'twould be dangerous being a lone Ship. stormy Sea to sail in, and unknown Coasts to earch out, and if we should happen to run around any where, could expect no Relief: these spicions I soon put out of their Heads, by telling hem of the great Riches of the Land, and that aptain Drake went round the World in one Ship. hen in those days there were but ordinary Nagators; and was it for us to question our good nune, who beyond Comparison are better Seaen, if we would put our felves in Action; and not rme, I would expose no Man to more danger er; an my self in the Attempt. Calm to Night: I arde fast, a small Tide running where I rode; the s a ater ebb'd near three fathom perpendicular: it ver near nine Leagues from the Flat Island to Saint ing lian, South-south-west and North-north-east as pp; shore lies. у, and

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pond, which

with very w

The Mouth of Port Saint Julian, in Latitude 49 d. 10 m. South, and in Longitude from the Li. Teale, and co! zard 63 d. 10 m. and in Meridian distance from the Lizard, West 1030 Leagues; by an Amplitude here, the Compass has varied 16 d. 10 m. East.

Wednesday, April 13. Fair weather, Wind at for two mile West, a small gale. Frosty and cold Air, no sign mough to fill of the Pink: I went ashore and haled the Seyne and laid up r on the East-side; at the first of the Flood we there was We caught five hundred Fishes, as big as large Mul. decay with the lets, and much like them, grey, and full of Scales, at Night I re some as big as a Man's Leg; we caught them all salt with us in four hours time, returned abroad, and divided stone-salt, we them among the whole Ship's Company: they cat pleasant smel admirably well. Many good Muscles lie on the ches: the Hi Rocks, and Oyster shells on the Shore-side, and on them: on growing in Veins on the Rocks, but no Meat in ple, but man whom. Wind at West to Night, a fresh gale.

Monday, April 18. Wind at South-west, a still Metal, Tree, gale, Cold Air and fome Snow this Morning; the Wednesday, Winter is come strong and stormy, so that 'twil Wind; a cold be impossible to hold the Coast into the Streights Man. for the Wind blows altogether from the West of Thursday, West-southerly, and in such Gusts as will force south, a fine Ship off the Coast. This day I order'd my Purse ig'd the Ship to serve the Company Brandy wine for their Al Winter in this lowance, at a Quart per Week a Man: I got pass the Str Boats lading of the Wood of the Country aboat enerally, out for firing; to Night it blew hard at South-well blong and call the Company eat falt Seal, and Penguins for his Winter. I their Allowance: sweet and very good Meat, an good refreshment keeps well and long in Salt.

tekes, and I Frida mady to fail

Friday, April 22. Wind at South-west, a stiff gale, and cold Air. This Morning I went ashore on rom the North-west side with twenty Men, to the Saltrude pond, which is rusted all over like a Pavement. with very white and good Salt, two Inches thick. l at for two miles long: in February here's Salt enough to fill a thousand Ships; we filled two Bags eyne and laid up near two Tuns out of the Water, for we there was Water over the Salt, which began to Mul. decay with the Rain and Weather being on it: ales. at Night I returned aboard, we brought as much n all Salt with us as filled a Punchion, very good white sided Stone-falt, whiter than French-falt, and of a very y cat pleasant smell; I saw some Guianacoes, and Ostri-the thes: the Hills and Valleys dry Earth, and Grass and on them: on the higher Hills lies Snow, no Peoat in ble, but many places were they had made Fires. and lain under a Bush for shelter; no Mineral or fil Metal, Tree, or Fruit.

; the Wednesday, April 27. Close Weather, and little twil Wind; a cold Air, it freezes hard, the Ice bears a

ghts Man.

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it of Thursday, April 28. Wind at West and by rce South, a fine gale, cold frosty Weather. We unurse ig'd the Ship, and made all snug, intending to r Al Winter in this Harbour; the Ice will not suffer us got to pass the Streights; the Winds are so stormy, and oar enerally, out of the Western quarter; the Nights well follows and cold, that the passage is impossible ns for his Winter. The Port I found fafe to ride in, and , an good refreshment to be had of Fowls, as Ducks, leekes, and Divers, &c. In the Spring I may be ride mady to fail to the Southward, when we shall

have the year before us, and the Sun in the Sou. thern Signs, which will give long Days and short Nights, and temperate Weather; Wind at North. north east this Evening and Rain: it blew a great form to Night, the Boat funk at the Ship's stem. and lost the Oars. Less Wind towards Night, and veared to the West.

Friday, May 6. Wind at West north west, a fine gale. I went a-shore on the North west side with thirty Men, and travelled feven or eight miles up the Hill, faw no People: the Land is great Grass. Downs in most places; and on the tops of the Hills, and in the Ground are very large Oyster. shells, they lie in Veins in the Earth and in the firm Rocks: and on the fides of Hills in the Country: they are the biggest Oyster-shells that ever I saw: fome fix, some seven Inches broad, yet not one Oyster to be found in the Harbour; whence I con. clude, they were here when the Earth was form. ed: no fign of Mine or Metal, no Woods or Tree. We found a good Spring of fresh Water up in the Hills, it drains into falt Water-swashes: We saw feveral Salt-water Ponds fix miles in the Land. made by the faltness of the Earth; we saw Ostri. ches, Guianacoes, and a Fox. I made a Fire on the top of the highest Hill, but could see no answer. I returned aboard with my Company very weary: some of my Men setch'd Salt to day. Fair Weather to Night.

Friday, May 13. Indifferent Weather, Wind at West south-west, a fine gale. This day we fetch'd Salt: A Gentleman of my Company, Mr. John Wood, walking on the Island of Justice, found three

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small pieces which Shells fring: the G English, and as a great Pin Monday, Fo South-west, with fixteen into the Land

now : 'tis v her for Snov rould not en Hill that I w eyond Hill; grass Dow he Hills : fre hich is melt unning, there ocs and Offi lose by the w hey had lain

nd Offriches mle sticks; I hem, for we ones, which heir Fires are ers, as we im

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fuianacoes W hese People 1 every day, they live li

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small pieces of Gold-wire in two Muscle-shells: which Shells were made together by a green Gutfring: the Gold was to the value of two shillings English, and had been hammered, the Wire as big

as a great Pin.

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Monday, June 6. Cloudy cold weather, Wind at South-west, a fresh gale. This day I went a-shore with fixteen Men, and travelled ten miles West into the Land; the Hills there are cover'd with snow: 'tis very cold, we could not go any furher for Snow; and the Air is so cold that we hould not endure to lie on the ground: on the Hill that I was on, we could fee nothing but Hill eyond Hill; no Woods, nor Trees, nor Bushes. Igrass Downs: the Land is flat on the tops of he Hills: fresh Water runs down in several places hich is melted Snow, and when the Water leaves unning, there's no Snow. I faw many Guianawes and Offriches; no People or fign of any: lose by the water-side we saw many places, where hey had lain on open Hills in the Snow, and some laces where they had kill'd and eat Guianacoe's nd Ostriches; they make but small Fires with ttle sticks; I do not find they roast their slesh at strihem, for we saw some raw Flesh hanging to the the ones, which they had gnawed with their Teeth: ver: heir Fires are only to warm their Children's Finary; ers, as we imagine. I gather'd some handfuls of leamanacoes Wooll that lay here: I am perfuaded less People must needs see us travelling to and d at every day, but won't come near or be feen by ch'd they live like wild Beasts, or rather worse, for tohn metimes they must be in greatewant of Food; here's mall

here's neither Fruit, Root, or Herb for it: The Land is a dry gravelly Soil, with Sand, and in many places a Marle two foot below the Surface. the Grass, which is dry, grows in knots, not very long but thick; in the Valleys the Earth is of a Petery or nitrous Nature; Offriches feen; no fign of Metal or Mineral; I and my Company have looked in most places where we travell'd for it:

To Night we got down but very weary.

Tuesday, June 7. Close dark Weather, Wind at North east and by East, a fair gale: A new Moon to day, fine Weather to Night, but cold. the Stars near the Pole Antartick are very visible: some of the small Stars in the Constellation of little Hydra are near the Pole; Here are many good Stars near the Pole, good for Observation of the first and second Magnitude: the Star at the fly; they ha South end of Ariadne, the Star at Hydra's Head the Star in the Peacock's Eye, and the Star in Tucan's Bill, and the Stars in Tucan's Thigh an Back; the Stars in Grus's Head, and Wing, and Body but the brightest Stars are the Stars in the forme foot of Gentaurus and Crofiers; the other Star west, a stou are of the third, fourth and fifth Magnitude the East-side The two Clouds are feen very plainly, and Wood went a small black Cloud, which the soot of the Crop with him; the is in, is always very visible when the Crosser the Land We are above the Horizon, as they are alway her where they find these Latitudes. The Heavens in this South Hill, making Hemisphere are as the Heavens in the North High Dur Misphere; but no Stars within eighteen degree them; three of the Pole fit for Observation; no Pole-star, with their Bo the Star in the Tail of the little Bear is in the loofe Skin

North: th for stirring as yet: a N can eat For Mutton; e which is eve comes amif plains of co Men well g for this Cou Air, and Pr Offriches as Barbary, no grey on the and the Feat have long I and beaked r a great Turl

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North: the Air cold to Night, but very healthy for stirring Men: I have not had my Finger ached as yet; a Man hath an excellent stomach here; I can eat Foxes and Kites as favourily as if it were Mutton; every Fox and Kite as we kill, we eat, which is ever now and then one killed. Nothing comes amiss to our stomachs; not one Man complains of cold in his Head, or of Coughs. Young Men well grown, and of good shape, are most fit for this Country, it being a dry and an hungry Air, and Provisions to be got with pains. Offriches are nothing to big as the Offriches in Barbary, nor of the Colour nor Feather; these are grey on the Back, and ihaggy Feathers of no use, and the Feathers on their Bellies are white; they have long Legs and small Wings; they cannot at the fly; they have a long Neck, and a small Head, Head and beaked near like a Goose; they are much like ar in a great Turky-cock, and good lean dry Meat and h and weet. To Night I came aboard; it blew fresh at West.

Wednesday, June 22. Wind at West-north-Star west, a stout gale. This day I went ashore on the East-side, saw no People. This day Mr. Fohn Wood went ashore on the West side, and three Men cross with him; they were armed; they travelled into roses the Land West and by North about sour Miles; her where they saw seven People of the Country on . South Hill, making a noise and wasting them to the h He ship: Our Men went up the rise of the Hill to egree them; three of the Indian Men came to Mr. Wood, with their Bows and Arrows in their Hands, and in the loofe Skin about their Bodies, and a Furr-skin abou

about their Heads, and pieces of Skins about their Feet, and all the other parts of their Bodies na. ked; they were painted red and white on their Faces: they would not come fo near as to let our Men touch them, but slepped back as you mo. ved forward; they continuing their noise, and wasting with their Hands towards the Ship, and kept talking, but no Man could understand them: they repeated Ozse, Ozse, very often. They have an harsh Speech, and speak in the Throat: they received any thing that you cast to them on the ground. Mr. Wood gave them a Knife, and a Shafh, and a Neckcloth, and a Bottle of Brandy: they would not drink; Mr. Wood could not perceive any Bracelets they had, or any thing about them fave their Skin. They are People of a middle stature, and well shaped; tawny Olive-colour'd black Hair, not very long: they feem to be of a rude Behaviour; for they returned nothing for what they received, nor took no notice of any thing; the rest of their Company stayed at the Harbour, a Hill: they can endure much cold; for their Legs, book some ou Buttocks, and lower parts are naked. Mr. Wood hing: I digg was taller than any of them, and he judged the elder taken notice of the three to be upwards of forty years old floor Timber the other thirty. They feemed to be very fearful fine rotting. they took their own time, and went away intothe wifes here, Mr. Wood returned aboard and acquaint lian People. ed me with what he had feen. This Night work, and a p faw a Fire in the Hills. It blew hard to Nighta hip had bee West. They have small Dogs with them; the would not have come near our People, if they has not fallen accidentally into the Hills and Valley eft, a stiff

with then of the cru not trust u

Saturday went ashor Guianacoe Paunch for Itravelled where Peop glazed then together.

Sunday, J The Guiana ters, two h served all the good Meat.

Thursday, Wind at Nor head of the I s in the Full

light.

Sunday, Jul

with them. I have thought that they have heard of the cruel dealings of the Spaniards, and dare not trust us.

Saturday, July 2. Wind at West, a fine gale. I went ashore on the East-side; we killed a great Guianacoe with the Greyhound. I looked in his Paunch for the Bezoar-Stone, but found nothing. Itravelled to and fro, but faw no People: I faw where People had made Earthen Pots, and had glazed them, for there lay some of their stuff run together. At Night I went aboard.

Sunday, July 3. Wind at South, close Weather. The Guianacoe weighed, cleaved in his Quarters, two hundred and fifty Pounds neat. He served all the Company for a days Flesh, and is

good Meat.

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Thursday, July 12. Close Weather, and little Wind at North and by West. I went up to the had of the Harbour, but faw no People: There any in the Fullers-Earth Cliffs at the head of the the Harbour, a Vein made like rotten Ising-glass; I Legs, wok some out, but cannot find it good for any Wood hing: I digged in the Cliff, but faw nothing to eeld be taken notice of. I saw in two places pieces of sold loor Timbers of a Ship; they have lain a long arful ine rotting. We saw that the biggest of these other whee here, have been cut down by tome Chrinaint ian People. I saw wooden Plates, and a piece of it work, and a piece of an old Oar; some Christian ship had been here sormerly. I lay ashore to the Vight.

Sunday, July 31. Fair Weather, Wind at Southalley est, a stiff gale. The Weather as cold as it is WI F 2 117

in England in the height of Winter, and the Air rather sharper and dryer; I have now twelve Men lame with the cold, and their Legs and Thighs are turned as black as a black Hat, in spots, the cold having chilled the Blood; yet they use ba. thing and stuping those places, and all that they can to prevent, but it rather encreaseth on them than otherwise: These are such People as I could not make stir by any means; they that stir are as

well as any Men in the World can be.

Tuesday, August 2. Close Weather, Wind at South west, a gale and cold Air. We fall on fitting of our Rigging and getting the Ship fit: Here are hundreds of Guianacoes in companies near the Water-side: my Greyhound is lame; so that I can not make her run; aiso here are many Ostriches together with many green Plovers at the Water fide, and some Swans but not full so large as our They are white, fave a black Head, and half the Neck and Legs black: Here are some white Geel as European Geese; the Brant-Geese are some white, some black and grey; The Mallards and Ducks are grey; and the Teals are grey.

Tuesday, August 2. Close Weather, Wind West and at North-west, a fine gale. Boat for Water to a Swash on the East-side; tw of my Men saw two of the People of the Cou try on the East-side behind a Bush; my Men we toward them; they went away and left a bund Staves of for of Skins under the Bush, my Men made signs in short joint speak with them, but they would not stay; Men did not go after them but fat down, th Morning, W would not stay; they were but of a middle st

it to me, pled toge several ba Earth, an Trade the Flint Rone fearched th Gold, but lets of Sh Thongs, at madillo-lhe stick for a Seal-skins, together wi of holes; and of Flints ma of a stick, v Arrow-head of Sticks to the Bundle; braided rou were coupid hels are the Bag, and ma the Race of Cur, but ver they were g fpots: they

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ture: my Men brought the bundle aboard to shew it to me, and two mungrel Dogs, which were coupled together. I opened the Bundle and it was several bags of Skins, with red Earth and white Earth, and Soot or Paint in a Bag; this is the Trade they paint themselves with: they had Flint stones and Arrow heads in the Bundle. I fearched the Bundle all over to fee for Grains of Gold, but could not find any; There ware Bracelets of Shells, and bits of sticks, and braided Thongs, and Arrows, and Muscle-shells, and Armadillo shells, and a small point of a Nail in a flick for a Bodkin: Their Skins were pieces of Seal-skins, and pieces of Guianacoe-skins, fewed together with finall Guts; all very old and full of holes, and finelt of greafe: There were pieces of Flints made fast with a green Gut, in the split of a stick, which they hold fast to knock their Arrow-heads into shape: There were also pieces of Sticks to get Fire with. This was all that was in Geeli the Bundle; it was made fast with Leather thongs fom braided round like Whip cord, and the Dogs ds and were coupled with such strings: the Musclehels are their Knives. I put all things up in the Bag, and made it fast. Their Dogs are much of int th the Race of Spanish Dogs; a good large mungrel Cur, but very tame; any Man might handle them; Cou they were grey in colour, and painted red in n we spots: they were very lean; there were two great bund Staves of four foot long, which was tough Cane igns in short joints: I carried them a-shore next day.

Tuesday, August 30. Foggy close Weather this Morning, Wind at North. We travelled away

West into the Land ten or twenty miles farther: The Land all dry, with Grass, and Bushes in some places like Thorns; the Hills high, and many. and Snow on the tops; no Woods, nor Trees to be feen: Fresh-water comes running out of the Hills in a fine Rivulet; no Fruit; many fedgy Bulles grow on the Brink, and brave green Grass, and a green Herb of a pretty flrong hot taste; fome Teal in the Water, and Water-birds. This is all I saw about the Rivulet. Many large Ponds in the Country, but falt Water in those Ponds. We saw Fowls like Herons, but all red; in the Val. leys we faw hundreds of Guianacoes in a company, and twenty Offriches: fome Hares and fome Partridges, greyer and bigger than ours; some Snipes and small Birds; several Penne-wrens: we faw feveral Kites, and fmall Hawks, and Owls: we caught two Armadilloes: I faw two Foxes and a wild Dog, and many Brant-Geese: the Land is in Hills and Valleys as far as we could see, and bad travelling on Foot; the Soil is gravelly and dry Sand, of a Salt petre nature; the Grass in some places long and dry, and in some places short and dry; the Hills are rounding aloft like large Downs: We saw red Earth in some places, such as the Indians use; we saw the Footsteps of People in many places in the Glay, and places where they had been, and had killed Guianacoes, and made a Fire there; I gathered Guianacoes Wooll, and Ostriches Feathers were scatter'd about the place, and Bones: there lay the Skulls of three People, no flesh on them; they were very clean, and no larger than the Skulls of European Men; **Imooth** 

smooth ar Skulls wa Man-eater Wars one few People to live on. sturage for Land there wants onl here, it w America, fi Afternoon gy, so as w though we no going ir Man will m in great Pla wet and col a Fire and Night; we Night.

Tuesday, thersthe Win not Sail this none, the Was when I was West-north-all things as some small Grass. No n

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smooth and even Teeth, close set; one of those Skulls was broken. Whether these People be Man-eaters or not, I cannot tell; I judge they have Wars one with another, by reason here are so few People in this great Land, and Food enough to live on, and the Land all clear and good Pasturage for Cattle, and no Mountains. In all the Land there are Plains and graffy Meadows: here wants only Wood to build with; if that were here, it would be as good a Land as any part of America, for the Country is very healthy. This Afternoon it rained, and was very thick and foggy, so as we could not tell which way to go, although we had a Compass with us; for there is no going into the Land without one, because a Man will mistake his way, the Country is so open in great Plains and Downs: We were very much wet and cold; We got to Bushes, and there made a Fire and dried our selves: we stayed here all Night; we neither heard nor law any thing to Night.

Tuesday, September 1. 1670. Close hasey Weather, the Wind at North, a small gale, so as I could not Sail this day; we tried for Fish, but caught none, the Water is so cold. I was on the Land, when I was at the farthest, twenty sive miles West-north-west from the Harbour-mouth; and all things as I saw I have mentioned, excepting some small Creatures like Ests, which run in the Grass. No manner of Snake or venomous Creature have I seen in this Country; here are some Earth-worms, and Caterpillars, and other Buggs, but sew in number: no wild Beast of prey, or

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the Men: v and falted 1 vered it to ther, and li

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any other thing to annoy the Inhabitants, but Cold and Hunger: Here lies a large Country o. pen to receive any Inhabitants from forein Parts, and large enough to fatisfie the Undertakers: The Land would produce European Grain, if planted here, and breed Cattle.

September 16. I considering my Men, being very weak, thought it most fit to go for Port De. fier and there to refresh the Men, for I knowing there I could have what Penguins and Seals I would have, which are good Provisions; also Ido intend to falt up a quantity of each, to carry to Sea with me to lengthen out my Provisions. This Forenoon I steered from St. Julian North-northcast, and made what sail I could to get to Port Desier: This Night it was a small gale, and veered to the West-south-west; I judged it best to make my easie Sail in the Night, for searof running up with the Eady-Rone-Rocks before day. light.

Wednesday, September 21. Fair Weather to day, Bushes all ov the Wind veerable round the Compass. This gine is to a Morning I had both the Boats laden with Scals, have any Re and Penguins and Penguin-eggs; ten Men may we let alone kill ten thousand 'Penguins in less than an hours of Beads on time; the Seals and Penguins are numberless Night. The a Man cannot pass on the Island for them. This wed some Injure Evening I got on board and landed our lading a ple that hav fliore; fair Weather to Night. The Eggs are they would co very good Nourishment, and the Fat serves for Oil leard of the

to the Lamps.

Thursday, September 22. Fair weather, Wind all endes This day I divided the Eggs among Conference w

Friday, S Morning; east, and blo up the Rive me, and ten Night on th Night the Po Well, which Pot, and the were laid th nen; but di are hung up not come no ple of the C form of the up pieces of

ward the Indi

the Men: we skinned the Seals and the Penguins, and falted the Flesh in bulk on the Rock, and covered it to keep the Wind from it. Good Wea-

ther, and little Wind to Night.

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Friday, September 30. The Wind at North this Morning; this forenoon it came to the Southeast, and blew hard, and rained. This day I went up the River about ten miles, and Don Carolis with me, and ten Men to see for People: we lay out all Night on the South-side, but saw no People; this Night the People of the Country came to our little Well, which is up in the Valley, and stole an Iron Pot, and three fuits of Cloaths of the Mens, that were laid there a drying, with some other Linnen; but did not meddle with the Beads, which are hung up on a Pole on the Hills, and they will not come near it nor meddle with it. The People of the Country have made in a Valley, the form of the Ship in Earth and Bushes, and stuck up pieces of Sticks for Mass, and redded the Bushes all over with red Earth; the Mode! I ima-This gine is to record our Ship, for they cannot seals, have any Records but by imitation: This Fancy may we let alone untouched, only I laid a firing or two nours of Beads on it, and came away: Close Weather to less Night. These People must certainly have recei-This ved some Injury in former times, from some Peongable that have been here in Shipping, otherwise s are they would come in fight of us; or elfe they have r Oil leard of the cruel dealings of the Spaniards tovard the Indians, where they lived near. Wind field all endeavours possibly by fair means to have ong Conference with them, but all is in vain.

Tuesday.

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Coat is a do

ih, grey on

Tuesday, October 11. The Wind at West-south west, a stout gale; very cold, Hail and sleety Snow to day. Our Men are all in good health and are lusty and fat, those which had the Scurvy are got very well with eating of fresh Meat, and their Necks fuch green Herbs as they can get on the shore, as legged like green Pease-leaves and such trade; they mince it, Children in try it with Eggs and Seal-oil; and it hath raised they are full every Man in as good health as they were at our Crow, onl coming out of England. We fare very well, and little: they w have great plenty of good Provisions. Here is and will drive Provision enough of Scals and Penguins, if salt and there yo be plenty, to lade Ships. I can considently say, me after and that on the Island of Penguins there are more Seals laste away. and Penguins at this present, than three hundred bucks, and Tuns of Cask can hold, when dress'd and salt and white Seed, besides what are going off and coming on. It ers, and Dob any Men should have occasion for Provisions of October 13. Flesh, if they have Salt, here they may surnish pesser, standing themselves with what quantity shall seem sit for at. 49 d. 8 m them, and I can assure them it will last four Months ape, call'd fweet, if not longer, if care be taken in bleeding till of St. Ive and dressing, and salting, as I have prescrib'd be as variation fore; the Salt may also be had at Saint Julian ere makes in Salt-pond in Summer time; also I believe that Salt pes in. may be had at Port Desier in the Summer-time, for Odob. 21. 1 here is some dried Salt on the holes of the Rocks 1 d. 30 m. So Here are several Flats, where Men may make Pite Gallegoes. and let in Salt-water, and so make Salt, as I have lary, at the e feen in other places. Cape Virgin

The Penguin is a Fowl that lives by catching the Latitude and eating of Fish, which he dives for, and is ver And in Long nimble in the Water; he is as big as a Brancest, 65 d. 42

Gool

Goose, and weighs near about eight pounds; they have no Wings, but flat stumps like Fins: their Coat is a downy flumped Feather; they are blackih, grey on the Backs and Heads, and white about heir Necks and down their Bellies: they are short and e, as legged like a Goose, and stand upright like little Children in white Aprons, in companies together: e it. aised they are full-necked, and headed and beaked like tour Crow, only the point of their Bill turns down a and little: they will bite hard, but they are very tame, ere is and will drive in herds to your Boat-fide like Sheep. f salt and there you may knock them on the head, all say, one after another, they will not make any great Seals afte away. Here are a great many Sea-Pies and ndred bucks, and Ox-Birds, and Sea-Mews, and Gulls, I falt and white Sea-Pigeons, and white-breasted Di-in. It ers, and Dobchicks.

ons of October 13. I weighed, and fail'd out of Port urnill Delier, standing Southward. Octob. 16. I was in fit for at. 49 d. 8 m. South. Octob. 19. I passed by the onthe ape, call'd Beachy Head, by our Men, and the eding till of St. Ives, Lat. 50 d. 10 m. The Compass 'd be as variation 16 d. 39 m. Easterly. The Land ulian's ere makes in a Bay, where the River of St. Cruce at Sala pes in.

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ne, so Ottob. 21. We passed by Cape Fair weather in locks 1 d. 30 m. South-Lat. Here goes on the River ce Pit Gallegoes. Octob. 22. We came to Cape Virgin-I have lary, at the entrance of the Streight of Magellan.

Cape Virgin-Mary, at the North-entrance, lies

tching the Latitude of 52 d. 26 m.

s ver And in Longitude, from the Lizard in England. Brand est, 65 d. 42 m. Gool

Meridian

Meridian distance from the Lizard in Leagues, West, 1062 Leagues.

Variation of the Compass here I find to be

Easterly, 17 Degrees.

Here is Anchoring all about this Part of the Streights, in the fair way from Cape Virgin Mary till you come into the Narrow. I did not find much Tide any where hereabout, but in the Narrow, and there the Tide runs stronger than it does in the Hope, a good matter; the floud Tide fets into the Streights, and the Ebb sets out; it keepeth its course, as on other Coasts; it is fix hours Floud, and two hours Ebb; it rifeth and falls near four Fathom perpendicular; it is an high Water here, on the Change day of the Moon at eleven of the Clock, as far as I could perceive. Many bed of Rock-weed are driving to and fro here. This day at two of the Clock I was a breast of Point Possession: I steer'd from thence West-north well about two Leagues, and then West, and West fouth-west, and South-west and by South, round ing by the North-shore: As I shoal'd my sound ings, I had 22, and 18, and 16, and 12, and Fathom, fandy, and fometimes gravelly Ground and pebble Stones. I failed, rounding the shore being unacquainted, and could not tell certain where the Narrow lay, for it was thut in one Lan with the other, so as I could not see the opening I was open of the Narrow at five a Clock, having a fine gale at North-north east. I steer'd in South west and by South into the chops of it, but coul not get past a League into it; the Tide bein ter, fine cle bent out and run so strong as I could not stemi mile off the

I was in da Rocks, wh hear with gale at Nor weed on th them, and teen Fathon nel: they co row of the Clock the V the Clock it dark, and ra again out o shore I could Calm, I fin Stones and Little Wind It is eigh

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second, and one to the c and by Nort to the fecon North-shore little Sea w not see to th therein thre the second the North-ea on the Nort dinary heigh In this Bay

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was in danger of running the Ship against steep Rocks, which lie in the North-side, she taking a hear with the Tide, and the Wind was a fresh gale at North-north-east. There grew long Rockweed on the Rocks; I went and sounded over them, and had five foot Water on them, and fourmen Fathom by the side of them, next the Channel: they come trenting from the point of the Narrow of the North-side, a mile off. At six of the flock the Wind came to the North; at eight of the Clock it came to the North-west; it fell very dark, and rained much: I was forced to fall back again out of the Narrow as well as I could; the shore I could not see, it was so dark: it fell a flar ven of Calm, I finding twenty Fathom Water, pebble Stones and oary; Ianchored, and rode all Night: Little Wind at South-west, and dark.

Point It is eight Leagues from the first Narrow to the h west second, and something better; the Course from one to the other is West and by South, and East and by North. This Reach from the first Narrow to the second is seven Leagues broad, from the and g North-shore to the South-shore; it shews like a round little Sea when one comes into it, for we could fhore not see to the second Narrow, till I had sailed therein three Leagues or more. At the point of Land the second Narrow, on the North shore; up to ening havin the North-east-ward a mile or two, there is a Bay on the North-shore, and a white Cliff of an or-South dinary height, which is call'd Cape St. Gregory: In this Bay you may ride in eight Fathom Water, fine clean landy Ground, and a good half mile off the shore: This is a good Road, if the

ThisMorr ad at my la le came off with them, uch things Arrows, and oung Guiana Inives, and em'd to be Gold, which ens, that if laives and B he Land. I

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Wind be between the North east and the South. west to the Westward; the Winds are given most to blow on the Western-quarter. As I sailed tho. row the fecond Narrow, I founded in the fair way, and had twenty eight, and thirty Fathom small stones: The North-shore on this Narrow makes in a Bay at the East-point, and is white Cliffs all the way through: This Narrow lies throughout West-south-west, and East-north east, and at the West end of the Narrow the Land is steep up, in white Cliffs, and the South part rounds away in a Fore-land: The South-shore rounds away South. east from this Fore-land, and then it trents away to the Southward in low Land: The North-shore of Ground, of this Narrow or Streight, rounds up to the loked to and Northward in white Cliffs, and falls into shores; the things; there goes in a Harbour which hath four Fathom take to each in the Channel, at High-water; it is a flat round exceive that the Harbour within, and oary; I called this Oaz-har-orthat they bour. When you are at the West-part of this Nar-by would gla row, you will see three Islands come open, which sey tried to he show to be steep up Cliffs: they lie Triangle-wise ones, and wone of another; they are four Leagues distant em alone, a from the Narrow, West-south-west: The smallest viour, which and Easternmost Isle is call'd St. Bartholomew's; the every thing biggest and Westernmost is call'd Elizabeth's; the sen to sit downiddle most and Southernmost is call'd St. George's sir Necks; and by some Penguins-Isle, and indeed there are many Penguins on it. This Evening I got up to dieveral of Elizabeth's, and anchored in eight Fathoms and ade all the slan half fine black Sand, two miles off the Island y Lieutenant The East-point bears South and by East of me they desire Fair Weather all Night, the Wind at South and but they muc Weft.

to the Streights of Magellan.

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This Morning I went ashore on Elizabeth's Island. ad at my landing nineteen of the Country-peolecame off the Hills to me. I had Conference in them, and exchanged Knives and Beads for ich things as they had; which were Bows and grows, and their Skin-Coats, which are made of oung Guianacoes skins; I gave them a Hatchet and lives, and Beads, and Toys, Trumps, &c. they em'd to be very well pleased; I shew'd them old, which they would have had; I made them ens, that if they had any, I would give them Lives and Beads, &c. for it, or if any where in Land. I laid Gold and bright Copper into way & Ground, and made as if I found it there, and rore the whed to and fro on the Earth as if I looked for ones; ich things; they looked one on another and hom hake to each other some words, but I could not ound acceive that they understood me, or what I meant; Narty would gladly have had every thing they saw;
which by tried to break the Boats Iron grapenel with -wife ones, and would have carried it away; I let istant em alone, and observed their actions and be-allest viour, which was very brutists: They catch'd ; the every thing they could reach, although I caused ; the em to sit down, and I put strings of Beads about orge's weir Necks; still they defired more: My Lieure are nant Peckett danced with them hand in hand, up to deeveral of my Men did dance with them, and s and ade all the shew of Friendship as was possible: fland y Lieutenant changed his Coat for one of theirs, f me othey defired it because it was red, which cond by they much esteem. I was in great hopes I might Thi

might find Gold among them: I gave them all the courteous Respect I could. After two hours Conference with them, I made figns I would go and get more things, and come again to them. They went, and would have us to Land again un. der a Cliff, which I judge was their Delign, to heave stones into the Boat to sink her, for the hey wrap place was very convenient for fuch a purpole They fet themselves down on the Grass, and in mediately fet Fire on the Grass, on the side of the Bank: By what means they got Fire fo fuddenly I could not understand. I went and sounded the Channel between Elizabeth's-Island, and S. Barth lomew's-Island, and found it a fair Channel to Sai through, of a mile broad nearest and deep Wa ter: in the middle thirty eight Fathom, an nine and ten Fathom near the Shore-side, gravell fair on their Sand.

These People are of a middle stature, but Men and Women, and well limbed, and round Faced, and well shaped, and low Fore-headed their Noses of a mean size, their Eyes of the me and black; they are smooth and even toothed at close set and very white; small Ears: their H is smooth flag Hair, and very black and harsh the fore-part, even and round; and the Locks a mean length, both Men and Women alike: the inshriller a are full Breasted, they are tawny Olive-colour slab, but wh and redded all over their Bodies with red Ea and Grease; their Faces dawbed in spots do thing, their Cheeks with white Clay, and some black Throats Areaks with smut, in no Method; their Arms a ther Fish or H Feet the like: they have small Heads and shart, but eve Finge

Fingers : t going and Skins of Sc fewed toge is in form o or according Joth his Pla fowls, with heir Feet p iom the Gr ndure cold then they a rom Head t her; for it he Hills all over their P Tomen which rise the Me aly the Me he Women lecks, the N rger than th acd; the 1 eak ratting i rone word

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1 all ringers: they are active in Body, and nimble in going and running; their Cloathing is pieces of Skins of Scals, and Guianacoes, and Otters skins fewed together, and sewed soft; their Garment sin form of a Carpet, of about five feet square, 1, to according to the largeness of the Person; this or the hey wrap about their Bodies, as a Scottish Man rpose both his Pladding: they have a Cap of the Skins of adding sowls, with the Feathers on; they have about of the heir Feet pieces of Skinstied to keep their Feet idenly from the Ground: they are very hardy people to edth indure cold, for they seldom wear this loose skin then they are stirring, but are all naked of Body from Head to Feet, and do not shrink for the wear this loose skin from Head to Feet, and do not shrink for the wear the seldom and the seldom are seldom and the s P Washer; for it was very cold when I saw them, and he Hills all covered with Snow: they have no ravell sairon their Bodies nor Faces, nor any thing to over their Privy Parts, excepting some of the bot somen which had a Skin before them; other-punditions the Men and Women are cloathed alike; eaded ally the Men have Caps and the Women none: e met the Women wear Bracelets of Shells about their ned at tecks, the Men none: the Men are somewhat ir Harger than the Women in stature, and more full arsh acd; the Men have a harsh Language, and ocks tak ratling in the Throat, and gross, the Woet the mshriller and lower: they pronounce the word olout sab, but what it means I could not understand, d East one word they spake. If they did not like s do by thing, they would cry Ur, Ur, ratling in e bla eir Throats: their food is what they can get; rms ther Fish or Flesh; they are under no Governnd sheent, but every man doth as he thinks sit; for Finge

the Woods old Wood ravelling in o and fro Water Bay; vard of Su

ow Point, 1 he Shore, a It is fix Le amen South the other en, as you

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they had no respect to any one, nor under any O. bedience of any in this Company; neither did they make any shew of Worshipping any thing, either Sun or Moon, but came directly to us at our first going on Land, making a noise, and every Man his Bow ready strung, and two Arrows a Man in their Hands. Their Bows are about an Ell long. and their Arrows are near eighteen Inches long, and neatly made of Wood, and headed with Ilim stones, neatly made broad Arrow-tashion, well fastned to the Arrow; and the other end is feather. ed with two Feathers, and tied on with the Gu of some Beast, when it is green and moist; the Bow-string is some twisted Gut. These People have very large mungrel Dogs, much like the race of Spanish Dogs, and are of several colours: Idid not fee any other domestick Creature they have neither could I at this time fee their Boats; for they lay at the other end of the Island, next the Main; they waited on this Island for an opportunity sleys, large nity of fair Weather, to go to the other Island dome upwa for Penguins, there being great numbers of the tech timber i Birds of the fouthermost of the three Islands, and like green I many other white-breafted Divers.

To Night I anchored in a small October 30. Bay in eleven fathom Water, gravelly Ground half a mile off the Shore; no Tide runs here a to thwart up a Ship; the Water riseth and fall perpendicular ten Feet. This Bay hath two Ring from the vulets of fresh Water in it, and good Timbe trees of eighteen Inches through, and near fort is Point is roo Feet long: the Wood is much like a Beech; her lies of it; are wild Current trees, and many such like Bushes t Famen Bay

the Woods are very thick and green, and much old Wood lies on the Ground, so as there is no ravelling into the Woods. I was ashore looking and fro here three hours: I call'd this Fresh. Water Bay; this is near nine Leagues to the Southand of Sweepstakes Bay. Sand-point is a mean ow Point, lies out more than the other Points of he Shore, and few Trees grow on it. lint

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It is fix Leagues from Fresh-water Bay, to Port imen South and North from the one to the point the other: that nearest Port Famen cannot be Gut en, as you come from the Northward, till you the one to bring the Point S. Anne up on the Northople est of you, for the Bay lies up in a little hook orth-west, and the Land on the West side of the race I did ay is low in a Point, and fandy, and fome Grass ows on it, and much drift-Wood lies on it like lave. ; for Carpenters-yard: a little within Land from the orthodaterfide grow brave green Woods, and up in the orthodaleys, large Timber-trees, two foot throughout land diome upwards of 40 Feet long; much like our those the timber in England; the Leaves of the Trees , all like green Birch-tree Leaves, curiously sweet; :Wood shews in many places as if there were small intations: for there are several clear places in und Woods, and Grass growing like fenc'd Fields ere and; the Woods being so even by the sides it, and on Point Saint Anne as you come o Raing from the Northward, you will see good mbe thes and tall Trees grow on the very point of it: fort is Point is rocky on the Shore-side, but no dan-; her lies of it; you may be bold on it to get into ushes t Famen Bay.

F 2

Here

Here is good Wooding and Watering, and good catching of Fish with the Seyne or Net. 1 haled above 500 large Fishes ashore at one Hale, much like a Mullet, all scaly Fishes. Here are many large Smelts of 20 Inches long, and many Anchovies, and some small Scates. Here is great plenty of Fish, so much as we feed wholly on it, and falt up much of the Mullett and Anchovies. Here grow many Trees of good large Timber forty inches through: the Leaver are green and large, much like Bay-tree Leavesin England; the Rind is grey on the outside and pretty thick rined. This Rind or Bark of the Trees, if you chew it in your mouth, is hour than Pepper, and quicker. It is of a spicy smell when it is dry. I cut of the Bark and made uf of it in my Pease, and other provisions insteads Spice, and found it very wholesome and good we steeped it in our water, and drank it, and i gave the water a pretty flavour. There growd these Trees in the Woods, in many places in the Streight on both shores, and on the Coasts of tops of them both sides of Patagonia, before you enter them those Moun This may be the Winter-Bark of the shops, which show lies co has an Aromatick pepper like or spicy taste.

Port Famen lies in the Lat of 53d. 35 m. South and in Longitude West from the Lizard 68 d. 91 and Meridian distance 1092 Leagues West, as m Account is in my failing. This Voyage I give credit to the plain Sailing: therefore this Meridi distance signifies very little as to Navigation.

I travelled in many places, but could not Mountains, a any Fruit-trees, or Oak, or Ash, or Hasel,

any Timbe no forts c is the Per Wood, and Reech. He the Streigh half throug long; there lould not in any place lies, and pla are fome He for Salleting edpretty we and of a gra good brown Woods for ( Woods trent Land all abo Fort Famen, the In land is

the South-she I saw mar hore-sides, a ome Whales I do verily

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to the Streights of Magellan.

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any Timber like ours in England: Here are but two forts of Timber in all these Woods, and one is the Pepper rind Tree, which is indifferent Wood, and the other is the Timber much like Beech. Here are the best and biggest Trees in all the Streights; here are Trees of two foot and an half through, and between thirty and forty feet long; there may be great Planks cut out of 'em. could not see any Grains of Metal or Mineral many place, and I looked very carefully in Gulres in lies, and places where Water had guttered. Here and are some Herbs to be plucked up, as we boiled the for Salleting, and green Grass with it, which relishnotter edpretty well. The Land in the Woods is dry, sand of a gravelly and fandy Soil, and some places le ul good brown Earth; it is bad travelling in the ead woods for old Trees and Under-Woods: The good woods trent all up on the sides of the Hills; the and Land all about on the North-west and West of ow Fort Famen, trents up to very high Hills, and in the In land is very high Hills; for we can see the Its of tops of them all barren and ragged, peeping over then those Mountains next to the Shore-side; much which show lies continually on them. The Land on

the South-shore is very high and peaked.

South I saw many Ducks and Brant Geese on the d. 9 hore-sides, and in the fresh Waters, together with

as malime Whales spouting in the Main Channel.

ive I I do verily believe that in these Mountains, eridicathere is some Metal, either Gold or Copper; for on. The Man that went aboard, pointed up to the not Mountains, and spake to me when I shewed him sel, ny Ring. These people eat up the Provision which

which was carried to them, and greafed them. felves all over with the Oil, and greafed their Skin. Coats with it: I made figns to them to go and get some Gold and bring it to me: some of them went away to their Boats, the rest sat still on the Grass, talking one to another, and pointing to the Ship. Their Language is much in the Throat, and not very fluent, but uttered with good deliberation: I could not perceive but only the younger were obedient to the elder, and the Wo. men were in obedience to the Men; for I took the Mens Coats and put about the Women, but the Men would not fuffer them to keep the Coats long. and themselves to be naked, but took the Coats from the Women, and put them about themselves: I proffer'd them to exchange one of my Lads for one of theirs, and they laughed; but the Indian Lad would not go with me, but hung back: I gave to the Men Knives and Fish-hooks, and to the Lads Jews-trumps and Pipes, and to the Women Looking glasses and Beads. I did this to gain their Loves, and in hopes to have Trading with them for the future; for they refusid Brandy.

Cape Froward is the fouthernmost Land of the great Continent of America, and it is very high Land on the back-side of it; the Face is steep up, of a Cliff of Rocks, and it is blackish grey, of more to the a good height, and deep Water very near it. I pert's Island, founded with my Boat to close to it, and had forty the Earl of S Fathom: A Man may lay a Ship close to the face Mand: this of the Cape, for there is Water enough: there League more is no Ground in the Channel at two hundred Factore Gallant.

thoms, ar law, but a f Leagues b hore. It North-sho are more g

Cape Fro Latitude of And in England 68

And in and two M The Cor

on Easterly ning Points Needle.

November lo by my M brest of Cap ventry and Bay, Cape a Situation of Rivulets, So the large Dr by my own

A-brest of which I call'

thoms,

thoms, and but little Tide, or any ripling as I hw, but a fair Channel to fail throughout; of three Leagues broad from the North-shore to the Southhore. It is best for a Ship to keep nearer the North-shore than the South-shore; for the Winds are more generally of the Western Quarter.

Cape Froward, in Magellan Streights, lies in the

Latitude of 53 d. 52 m. South.

And in Longitude West, from the Lizard, in England 68 d. 40 m. West.

And in Meridian distance in Leagues 1099,

and two Miles West ..

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The Compais hath fixteen degrees of Variation Easterly at Cape Froward. As to the Firlining Points I cannot fay any thing; I wanted a Needle.

November 4. 1670. I was in Wood's Bay, call'd by my Mate's Name. November 5. I was abrest of Cape Holland; near which lies Cape Coventry and Andrew's Bay, also Corde's and Fostcue's Bay, Cape and Port Gallant: but for a more exact Situation of the feveral Promontories, Bays, Ports, Rivulets, Soundings, &c. I refer the Reader to the large Draught of the Magellan Streights, drawn by my own Hand on the place.

high A-brest of the Bay, two Leagues off, is the Island which I call'd Charles's Island and Monmouth's Island; , of more to the Westward is James's Island, and Rut. I pert's Island, and the Lord Arlington's Island, and forty the Earl of Sandwich's Island, and Secretary Wren's face Mand: this Reach I call'd English Reach; a there League more to the Westward of Fostcue's Bay, is

Cape Gallant.

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Monday,

Weather, th

North-west:

The Streight shews now, as if there were no farther passage to the Westward: for the South Land rounds up so much to the North-westward that it shuts against the North Land to a Man's At this distance I saw two large Openings into the South Land, one opposite to Charles. shore. This Mand, the other more to the Westward, up of the South the round South Bite. There I saw many Whales the Point call spouting, that place I called Whale Bay. I saw fouting the several Brant-geese and Ducks here; I lest in the miles, but consider Houses Beads and Knives, in hopes of surface and very in ther Commerce: I saw on the South side a Fire of Grass gro

made on the Grass by the Natives. en; for I th From the Pitch of Cape Froward, to the Pitch long, into the of Cape Holland, the Streight lies in the Channel Here grow n West and by North, nearest, and is distant full five broughout, the Leagues; and from the pitch of Cape Holland, to many Brantthe pitch of Cape Gallant, the Streight lies in the pland Moun Channel West and by North, a little Northerly, anther: I ret and is distant eight Leagues. From the Pitch of aw where th Cape Gallant, to a low Point three Leagues to the of the Grass, Westward, the Streight lies in the Channel North Here are man west and by West, a little Northerly. This inches long, Reach is not more than two miles broad, from ed Pearls in the North-shore to the Islands, which I called impets, and The Royal Isles: When I was a-breast of the West All the Rig ermost Island, which I called Rupert's Island, I is, for it is be being on the middle of the Channel with the Ship and Floud, which off one of my Sakers with a shot, and the the Tides. shot lodg'd close to the Islands side. This low ation of the S Point, a breast of Rupert's Island, on the North up to turn f shore, I called Point-Passage. This Evening at have had a hof the Clock, I was shot past Point-Passage, half place. The to the Streights of Magellan.

mile to the Westward of it; having a fine Ea-

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sterly gale. Monday, November 7. Cloudy gusts, foggy Weather, the Wind at West, and sometimes at North-west: I rode fast all day close aboard the ings hore. This Afternoon I went in my Boat over p of the South-side, opposite to Elizabeth's Bay, at lales the Point call'd Whale Point, for the many Whales bouting thereby. I travell'd up the Hills two law the miles, but could not see any Gold or Metal; the fur. Land very irregular and Rocky, with mossy kind Fire of Grass growing on it, and very boggy and roten: for I thrust down a Lance of sixteen Feet Pitch long, into the Ground, with one hand very eafily. annel Here grow many Juniper Trees, some of a soot I five broughout, the Wood not very sweet. Here I saw ed, to many Brant-Geese and Ducks, much Snow on the n the hland Mountains, so as I could not travel any nerly farther: I returned down to the Boat again: I choice where the Natives had been by the evening o the fthe Grass, but I could not have a fight of any. orth Here are many good Muscles on the Rocks of five This inches long, and good Fish in them, and many from led Pearls in every Muscle: Here are also large

called impets, and Sea-eggs among the Rocks. West All the Ripling is not worth the taking notice

nd, I f, for it is but an hours time on both Tides Ebb Ship and Floud, when the Tide runs strong; neither d the the Tides any thing prejudicial to the Navis low ation of the Streight, but rather advantagious to North up to turn from Road to Road either way: For g at have had a benefit of them in plying from place, half place. The Weather indifferent this After-

noon:

noon; I went ashore after I had done Sounding but faw no People, nor any Metal; the Woods very thick, and several Trees of the hot Bark, the other Trees much like Beech-timber: fome Ducke and Brant-Geese seen on the Shore side.

The Streight in this Reach between Elizabeth; a fair birth Bay and St. Jerom's River is about two Leagues, dinary, and broad and high Land on the South side; which ward, and thath several brave Coves on it like the Wet Dock run's Channel on the South side; which ward, and the several brave Coves on it like the Wet Dock run's Channel on the South side. at Deptford, and safe to lay Ships in them from eithores along ther much Wind or any Sea. This Bay I call this Road to Muscle Bay, for in it there are many and great plen Road: This ty of good Muscles. The Shore-sides are rocky, kerly Winds steep too in most places; no Ground in the main either shall Channel at an hundred Fathom; also in the Bays ive way, he on the South-side it is deep Water, and small taway; for Islands lie in the Bays, and close along the South Winds that b shore lie small Islands. Here are many Whales op to these and I saw many Penguins, and some Seals. The ad the West Shores are woody on both fides, but ragged Timen, are made ber and boggy Ground; the tops of the Hills Mountain bare Rocks and irregular. Several streams of Winds feld Snow-water run down in the Cliffs of the Hill ave observed two Leagues to the Westward of Elizabeth's Bapthe East, the On the North shore the Land is low and wood the, and they near the Water-side, and up of a Valley in the rees are stre Low-land: In this Valley there runs a fresh Walls, but or ter River; I went into it with my Boat: It rees are much but shallow at low Water, hardly Water enough ppled, and for my Boat: Here I saw several Arbours of the gethe Water Indians making, but no People. This River At Cape Qua a very convenient place to lay Shallops, or, as if th fuch like imall Vessels in it; they may go in a make nea

or nine fee Batchelor's in the Stren or ten, or t

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it at high Water, for the Tide rifeth here eight ornine feet: this River I call'd by the Name of Batchelor's River. Before the mouth of this River. in the Streights, there is good anchoring, in nine, or ten, or twelve Fathom Water, fandy Ground; beth; a fair birth off the Shore: the Tide runs but ordinary, and the Floud-tide comes from the Westwhich ward, and the Tide that comes out of St. Je-Dock mis Channel, makes a ripling with the Tide that om el mes along the stream of the Streight: I call'd call'd his Road that is before Batchelor's River, Torkt plen Road: This is a good place to ride in with Wecocky terly Winds, for here cannot go any great Sea; main beither shall a Man be embayed; that if a Cable e Bay vive way, he may have the Streight open to carry fmal away; for the Westerly Winds are the greatest South winds that blow here by the Trees, for they all whales boop to these Winds, and lean to the Eastward; Thend the West-side of all the Trees that stand od Timen, are made flat with the Winds: the tops of e Hill be Mountains look to the Eastward; the Easter-ams of Winds seldom blow strong here as to what I Hiller we observed. By the Shore side which lies open b's Bath the East, the Grass grows down to the Waterwood de, and they are the greener Shores, and the in the rees are streight and tall on the East-side of the esh Walls, but on the West shores, the Grass and t: It res are much weather beaten, worn away, and enough ippled, and the Shore sides much tewed with the of the ge the Waters.

liver At Cape Quad, the Land shuts one with the ops, er, as if there were no farther passage: But as go in a make nearer to it, you will fee the opening more

more and more, as the Streight rounds there more to the Northward again. Cape Quad is on the North-shore; and it is a steep up Cape, of a rocky greyish Face, of a good height before one comes at it: it shews like a great building of a Castle. for it points off with a Race from the other Mountains, so much into the Channel of the Streight, that it makes shutting in against the South-land, and maketh an Elbow in the Streight. The Streight is not past four miles broad here. from shore to shore; and the Land is steep too on both fides, and rocky; the Mountains high on both Shores, and craggy barren Rocks: some Trees and Bushes growing here, and much Snow on the Mountains on both fides. Opposite to Cape Quad on the South fide, there is a fine large Bay, which is call'd Rider's Bay: I did not go into it; if there be Anchoring in it, it is a fair Road for any Winds: the Water is very deep here in the Channel, no Ground at one hundred Fathom this part of the Streights, from Point Passage to Cape Quad, is the most crooked part of all the which lies o Stre ght; therefore I call'd this Crooked Reach led it Westm. Here are two small Islands in the North shore, to slands between the Eastward of Cape Quad.

November 14. This Morning I was a brest of Ground, and Cape Munday; so I call'd it, it being a Cape of all'd The La the South-side, and is distant from Cape de Qua Westminster I about thirteen Leagues: the Streight here is a ke Westminster I bout four miles broad, and the North-shore make broad, between into the Land with great sounds and broken Island hore; but b the Land on both Shores is high rocky Hills, an there are ma barren, very little Wood or Grass growing of

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them : Her broader and all one Cou Upright; \ South fide. four League Westward from Cape 1 Northerly r be in the North-shore or Current hundred Fa on either fic many Sound by the Sout shore makes lie all along but no dans Streight is a This day at

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them: Here at Cape Munday, the Streight grows broader and broader to the Westward, but keeps all one Course, North-west and by West to Cane Upright; which is a steep upright Cliff on the South-side, and it is distant from Cape Munday four Leagues. Here the Streight inclines to the Westward near half a Point: the Streight lies from Cape Munday West north-west, half a Point Northerly right out into the South Sea, if you he in the middle of the Channel, or nigh the North-shore; I find little or no Tide to run here. or Current: no Ground in the Channel at two hundred Fathom, a Musket shot off the Shore. on either side. Here run into the South-shore many Sounds and Coves: I have fail'd fair along by the South-shore all this day; for the Northfore makes in broken Islands and Sounds: Here lie all along the South-shore several small Islands. but no danger, for they are all steep too: the Streight is a very fair Channel to fail throughout. This day at Noon, I was a breast of an Island. which lies on the North side of the Streight, I calill the Reach led it Westminster Island; there lie a great many ore, to Mands between that and the North shore, and to the Eastward and Westward, and also some broken rest of Ground, and Rocks lie about it. These Mands I pe of fall'd The Lawyers, and this Island which I call'd e Qual Westminster Island, is an high rocky Island shewing re is a ske Westminster-Hall; the Streight is five Leagues make proad, between Westminster Island and the South-Mand hore; but between that and the North-shore, ls, an there are many recky Islands and broken Ground.

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The Streight lies from Cape Munday to Cape Desfeada, West-north-west, and East south east, half a point Northerly, and half a point Southerly, nearest, and they are distant from one another near fifteen Leagues: From Cape Quad to Cape Descenda, it is about twenty eight Leagues; and the Streight lies near North-west, and by West from Cape Quad into the South-Sea, and near in one Reach, which I call'd Long-Reach: and some of my Company call'd it Long-Lane. This part may properly be call'd the Streights; for it is high Land all the way on both Shores, and bar. ren Rocks, with Snow on them; and indeed from Cape Quad into the South Sea, I call'd this Land South-Defolation, it being so desolate Land to behold.

Cape Desseada lies in the Latitude of 53 d. 10m. South.

In Longitude West from the Lizard of Eng. land 72 d. 56 m.

And in Meridian distance 1149.

The Compass hath 14 d. 10 m. Variation Easterly here.

Cape Pillar lies in the Latitude of 53 d. 5 m.

In Longitude West from the Lizard of England 72 d. 49 m.

And in Meridian distance 1148 Leagues West I make the whole length of the Streights of Magellan, from Cape Virgin-Mary to Cape Desseada with every Reach and turning, to be one hundred and fixteen Leagues: and fo much I fail'd from the one Sea to the other, according to my at either estimation.

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The best Land-sall in my Opinion, is to make he sace of Cape Desseada for to come out of the south-Sea to go into the Streight of Magellan; they lie in East and West at the first, till you come brest of Cape Pillar; then the Course is Southall and by East nearest. Be careful to keep the outh-shore in fair view; for the North-shore is roken Islands and Sounds, that a Man may minke the right Channel or Streight, and steer up no one of them, as he comes out from the Souther, if he lose sight of the South-shore.

Here lie four small Islands at the North part of a mouth of the Streight, in the South-Sea; they a pretty near together: the Eastermost stands only by it self, and is round copling up of a fair eight like an Hay-cock, or Sugar-loaf: the other are flattish; they lie from Cape Pillar North-orth-west, by the true Compass of 6 Leagues off; ey are distant from Cape Victory, near four eagues South-west; I call'd them The Islands of inclion: they are good wishing to fall with the buth of the Streight.

Movember 26. The Land makes in Islands, lynear the main Land, is high and large Hills
agland and, which stretch North and South, some
ow lying in the tops of the highest Hill. At
West of the Clock I made the Island of Nuestra
hts of mora del Socoro; in the Spanish Tongue it is calfeads, the Island of our Lady of Sucore; I steer'd with
hun. North-east and by East; it made rounding up
sailed the Eastermost end, and lower in the middle
on my at either end: it maketh with a ridge rung from one end to the other, and Trees grow-

ing on it: the Shore-side is rocky on the South. tide of the Island, and some broken Rocks lie near the Shore-side; and on the South-east end of the Island there stand two peaked copling Rocks close to the Shore; they are white on the top with Fowl The Island is of a fine heighth, and all woody on the North-side of it; the Trees grow down to the Water-side, and fresh Water run down in five or fix Gullies: the Woods are all green, and very thick spicy Trees.

Meridian distance, at Noon, from Cape Pillar

East 20 d. 0 m. 4 ten.

Longitude at Noon from Cape Pillar, East 1d

Longitude at Noon, from the Lizard, Wel

71 d. 42 m.

Meridian distance, at Noon, from the Lizara Grass, the W

West 1128 leag. 2 mil. 9 ten.

The Island Nuestra Senora di Socoro, lies in the small Birds Latitude of forty five degrees South, and in Lor reseveral Fe girude East from Cape Pillar one Degree ninetee black and when the state of t Minutes; Meridian distance from Cape Pillar, Eachter such 20 leag. O min. 4 ten.

Meridian distance from the Lizard, West 112 Fire on the

deg. 2 min. 9 ten.

Longitude from the Meridian of the Lizar went aboar West 71 deg. 42 min:

The Compass hath eleven Degrees, Variatio emitted lan

Easterly here.

I went ashore with my Boats for fresh Water the main side which I had them laden with presently; for here with my fresh Water enough, and very good: I search went to the the Shore what I could, I saw an old Hutt ween that a

that were any fign of the People Main in th Fowls: for for the fuft any kind of black Earth is irregular trable thick ward part o ber, none t the nature of Birch, and a the fire, it is ledgy Grass what else the

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Arbour of the Indians making, and several sticks that were cut, but all old done. I could not fee any fign of People on the Island now; I believe the People come rambling to this Island from the Main in the best season of the Year to get young Fowls: for I do not fee any thing else in the Island for the fustenance of Man's Life: I could not see any kind of Mineral or Metal: the Soil is a fandy black Earth, and fome Banks of Rocks: the Island is irregular, and grown all over with impene-Pallar hable thick Woods, so as I could not see the inward part of it: the Woods are ordinary Timt 14 ber, none that I saw was fit to make Planks of: the nature of the Wood is much like Beech and Wef Birch, and a fort of heavy Wood good for little but the fire, it is white: no Fruit or Herbs; very little izare Grass, the Woods are so thick; much kind of long ledgy Grass; no wild Bea't to be seen; several in the small Birds in the Woods like Sparrows: there a Lor are several Fowls like Kites in the Woods, several netter black and white Brant Geese and pied Shags, and ar, Ea other fuch Sea Fowls, as Pinks and Sea mews: what else the Island affords I cannot tell. I made t 112 Fire on the Shore, in hopes to have some anher of it on the Main, but had not. At Noon Lizar went aboard, and fent my Boats ashore again ir more Wood and Water, whilst the Weather

riationermitted landing. November 30. This Forenoon I was over on Wate he main side, the Ship lay off, and in. I went ahere with my Boat on an Island which lieth ad-earch event to the Main: There runs a Channel beween that and the Main, and many Rocks lie Tutt

in it, and foul Ground, so as I durst not venture the Ship in it. This Island shewed as if it had been the Main, till I went to it with the Boat! being about four Leagues long from the North. point to the South point, and in some places a League broad. The Island is of a mean height, is to be ta and in some places two Leagues broad, and grown and some W all over with Woods very thick: the Timber is sing to day fuch like as is on the Isle of Socoro. I could not self: I ride fee any kind of Mineral or Metal in it; the Shore No-Man's fide fandy in many places, and rocky in others; ree Degree the Earth on this Island is of a fandy black foil Longitude but very wet with the continual Rains that are wenty one of here. Not finding this noted in my Draughts, I feridian difficall'd it after my own Name Narbrough's Island; I be thousand took possession of it for his Majesty and his Heirs and one Miles I could not see any People, or any sign of them are Pillar Ea

here. South east from Narbrough's Island on the Main lar, one deg distant about three Leagues, there runs into the mation of the Land a River or Sound, and some broken ground re. The Shore-fide is rocky, and the This Island lies before it. Hills are high in the Land on both sides of at the Sou This opening lies in East and West; I take it is Mouth of that place which in the Draughts is call'd Said between Ca This place lies in the Latitude of for false in lay four Degrees, fifty Minutes South; and more not make a the Southward thereof lie many round copie the on it, high Islands grown over with Woods: all all eight Coast the Coasts as far as I could see, there lie Islanddown very adjacent to the Main, and they are of a gramany Ina height.

This Da

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utherly, in

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This Day all the Bread in the Ship is expendat all the Company of the Ship, my felf, as well sany other, eat Peafe in lieu of Bread; my Comany are all indifferent well in health, I thank od for it, being seventy two in Company: no th to be taken with Hooks: many Porpusses seen, d some Whales: several Sea Fowls seen swimper is sing to day: much Wind to Night at Northl not est: I ride fast, but doubtful of my Cable.

No-Man's Island lies in the Latitude of forty horethers are Degrees, forty seven Minutes South, and k soil Longitude West, from the Lizard in England at are venty one degrees, thirty two minutes. And in lits, Feridian distance from the Lizard of England, and; the thousand one hundred and twenty six Leagues Heirs and one Mile; and in Meridian distance from then we Pillar East, twenty two Leagues, two Miles, two tenths; and in Longitude East from Cape Main llar, one degree, twenty nine minutes :-. The nto the mation of the Compais is ten degrees Easterly

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nd the This Island is that which the Draughts make to s of at the South-end of the Island of Castro, at eits Mouth of the going in of that Channel, which I Sai between Castro and the Main; the Draughts of for false in laying down of this Coast; for they nore not make any mention of the several Islands coplination on it, but lay it down all along to be a I alought Coast: the Latitude of most places are Islan down very near as what I have found. Here a greemany Islands adjacent on the Coasts more otherly, in the Latitude of forty five and an but none are laid down.

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11 m. And in M falt, 41 leav The Acco Meridian of account of r account of p bserve; but aling accord thich I ever alling and W nd most certa nof the Glob ilance I made d Seamen a we them th

our Naviga hart, and kee hich is the gr ; for they

me again, l we some in t

December 15. Don Carlos was put ashore, and carried with him a Sword, and a Case of Pistols. and his best Apparel, and a Bag with his Beads and Knives; together, with Scissars, Looking. glasses, Combs, Rings, Pipes, Jews harps, Bells and Tobacco; all which things he had of me to give to the Natives. At seven of the Clock Signion Carlos was fet ashore, on the South-side of the Harbour of Baldavia without the Mouth of it Mile, in a small fandy Bay, about two Miles with in Point Gallere, between the Point and the Mout When he was ashore, he tool of the Harbour. his leave of my Lieutenant, and bad him go; board and look out for the Fire in the Night, H went from the Boat along the Sea-side in the pat toward the Harbour's Mouth: the Men in the Boat faw him go along for the distance of a qua ter of a Mile, till he turned behind a point Rocks out of fight. The Shore-fide is low at fandy, and some scattered Rocks lie in it; Land riseth trenting to large Hills: the Land all woody and very thick, that there is no t velling but by the Water-fide. My Lieuten went ashore to the edge of the Woods, and thered several green Apples off the Trees: forth aces, accord grow Apple-trees on the Shore fide, much our European Winter Fruit; the Apples are big than Walnuts with their shells on; whether the wordingly, a Trees are planted by the Spaniards, or grow turally in the Country, I cannot tell.

I do not find any Current or Tide to let this Coast, that is any way prejudicial to Nav tion; neither do I find the Winds to blow Translame Errou

true

but they are veerable, and are given to blow hard on the Western Quarter, and rain much.

The Mouth of the Harbour of Baldavia on the coast of Chile, in the South Sea, lieth in the Laitude of 39 d. 56 m. South.

And in Longitude West, from the Lizard of England 70 d. 19 m.

And in Longitude East, from Cape Pillar 2 d.

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And in Meridian, distance from Cape Pillar,

lalt, 41 leag. 2 mil. +.

The Account I make by my failing from the Meridian of the Lizard, according to my daily account of my Ships way. I do not make any Account of plain Sailing to be fit for Seamen to herve; but the best Navigation is by Mercator, qua ling according to the Circle of the Globe, hich I ever fail'd by, and keep my Account of ow a Paling and Westing by Longitude, which is the best and most certain Sailing, to give the true description of the Globe. I have noted down the Meridian hance I made daily, whereby such Navigators uten at Seamen as know better, may have that to and the them the knowledge of the distances of orth aces, according to their Understanding. Most our Navigators in this Age fail by the Plain big last, and keep their Accounts of the Ships way er the fordingly, although they sail near the Poles; lich is the greatest Errour that can be commit-; for they cannot tell how to find the way me again, by reason of their mistake; as I re some in the Ship with me now that are in Translamo Errour, for want of Understanding the true difference of the Meridian, according to the Miles of Longitude, in the feveral Latitudes. could with all Seamen would give over failing by the false plain Chart, and sail by Mercator's Char which is according to the truth of Navigation But it is an hard matter to convince any of theol Navigators, from their Method of failing by the Plain Chart; shew most of them the Globe, yet the will talk in their wonted Road.

At eight of the Clock in the Forenoon, m Boat put from me, and rowed to the Shore with in Point-Gallery, to the place where Don Carlos wa landed: I laid off and on with the Ship before the Port; the Boat rowed all along the Shore b the place where Don Carlos was landed, and alon the Shore in the Harbour. At the Points on the South-side of the Harbour stands a small Forta feven Guns, call'd St. James's Fort: My Boat can ceived it fuddenly on it, and before they The Sa be a Fort, they were within shot of it. niards stood on the shore; and wasted with white Flag, and call'd to them; My Lieutena wish Gentlem rowed to them, and asked of them what Com try they were? they answered, of Spain: The they sat them asked my Lieutenant of what Country he was He answered, of England; they asked him come ashore, which he did, in hopes to have see wish Captain Don Carlos there; for that Path that Don Carl went in when he was landed, led directly to the Lieutenant, Fort by the Sea-side, and it was not a Mile from caused five the Fort to the place where he was landed, so glad to see A he must go to this Fort, and be upon it before him that this was aware of it, unless he knew it before. The and how we

nath went Sea. In the are so thick the Fort fla the Bank, o Bank of H flight Pallis vards diffar which Palli running vic Spaniards g gainst the N have Match ery ordinai

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nath went all along between the Woods and the Sea. In the Woods there is no travelling, they are so thick, and grow on the side of an Hill; the Fort flands just by the Wood side on a race of the Bank, of five yards ascent from the Sea, with Bank of Earth cast up before the Ordnance, and fight Pallisadoes plac'd in an Half-Moon, sour yards distant from the Guns to the Southward; which Pallisadoes are to keep the Natives from running violently on the Ordnance: so these Spaniards guard themselves with long Lances alos was gainst the Natives in the Fort. The Spaniards before have Match-lock Musquetoons, but they are ore be very ordinary ones, and they are as filly in using along them.

At my Lieutenant's landing, about twenty Spaon the At my Lieutenant's landing about twenty Spa-Forto mards and Indians came to the Water-side in Arms, t came and received him and his Company ashore, and d it is carried him some twenty yards from the Water-he Specified up the race of the Bank, under a great Tree, with where the Captain of the Fort, and two other Spatenan nish Gentlemen, received him under the shade with Com great Courtesie, after the Spaniards Ceremony; The they sat them on Chairs and Benches placed about was Table, under the shade; for the Sun shone nim there warm, it being a very fair Day. The Spawe see wish Captain call'd for Wine, which was brought Carlo to him in a great Silver Bowl; He drank to my to the Lieutenant, and bid him welcome ashore, and e from caused five of his Ordnance to be fired, being , so glad to see English Men in this place, and told ore him that this was Baldavia, speaking very kindly, Thand how welcome they were to him: After every G 4 one

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A Course

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one had drank, and my Lieutenant had thanked him for his Entertainment, he defired my Gentle. men to fit down, and he discoursed with them, and ask'd from whence they came, and for what way fived in S they came into this Sea, and what their Captain's fiver, and Name was, and if there were Wars in England tensils belo My Lieutenant answered him to his demands: aswere Silv My Lieutenant asked him, if they were in Peace with the Indians? He answered, that they were add of Silv at Wars with them round about, wasting his Hand olders Swo round the Harbour, and that they were valiant and the Plat back, and did them much spoil; and that two days insqueroons before, the Indians came out of the Woods and pethat the kill'd a Captain, as he flood at his Duty by the post the Gun side of the Fort, and cut off his Head, and carried off Boxes, a it way, sticking on their Lance. He shewed my the headed Lieutenant the place where the Indians came out led on the of the Woods, and the place where the Manware Masters of kill'd. They seem to be very fearful of the habit little dians, for they will not stir any way, but they alling was will have their Piece or their Lance with them 74. It is a manifest sign they are much affraid of the four Spanish Indians: also they have no more ground than the thmy Lieute Fort; neither do they clear any of the Woods of the H: this side of the Harbour, nor walk at a Musquet sy did not shot distance from the Pallisadoes, along the dasterward Woods side. The Spaniards say that the Indian me, who re have much Gold, and that their Armour for the withey inter rtook care Brest is fine beaten Gold, &c.

In the Asternoon a Dinner was brought out of ity: For it the Fort to the Tent, where they were, and place spaniards in on the Table: The first Course was Soppas, the stin these p

nked

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tain's

bleos, then Pullets, then fresh Fish, all dressed in hot Sauce, and very good Diet it was; the n, and all Course was Sweet meats: every Course was way wed in Silver Dishes, and all the Plates were wer, and the Pors and Stew-pors, and all the plands tenfils belonging to the dressing of the Provisi-ands awere Silver; the Bason wherein they brought Peace later to wash their Hands was in like manner were ade of Silver, very large, and the Hilts of the Hand oldiers Swords were Silver, but the Hilts of the valiant facers Swords were Gold of good value: More-Horse rer, the Plate at the But end of the Stock of their odays infquetoons was of the same Metal, and the ds and pethat the Rod runs in was Silver; as also the by the post the Gun stick, and their Tobacco Boxes, and carrie and Boxes, and the Staves which they walk with red my the headed and ferrelled with Silver, and ferme out led on the joynts with Silver. Indeed they an was a Masters of much Silver and Gold, and it the he but little esteemed among them. Their it they sting was Plata no vallanada muchoro in them in.

four Spanish Gentlemen desired to go aboard of the han the hmy Lieutenant, and see the Ship, and Pilot ods of rinto the Harbour, if I would come in, which affine y did not question but I would, as I underng the dasterward by a Spaniard that came aboard Indian me, who revealed to me their whole Design, r the whey intended to surprise the Ship, which I

ttook care to prevent, giving them no opporout only: For it hath been a general practice with Spaniards in America, to betray all foreign Ins, the st in these parts; as I had read of their trea-Olleg cherous

cherous dealings with Captain Hawkins at Saint have a great

Fuan de Ulloa.

I had much Discourse with the Spanish Gentle, men this day concerning Baldavia, and the Coun try of Chile. They tell me they have much Gold to the Port of the at Baldavia, and that the Natives do much the Tropick hinder their getting of it; for they are at cree and they ret Wars with 'em, and will not permit 'em to plan any thing near hereabout, nor at Baldavia, bu fimia, and i they come and destroy it with Fire. And that the on the West If they hey come to Natives are very cruel and barbarous. take any Spaniard, they cut off his Head, and car ry it away on their Lances end. These Spaniard wher rich Cotell me, that they live here as the Spaniards do: The Mannello Mamora in Barbary, having their Enemies roun frand Chine about them. These Spaniards say, that the Ind the Captain ans are tall Men, and of a Gigantic Stature, and bound? I are extreamly valiant, and that they sight on Hosse and that I have back, eight and ten thousand Men in Arms, an hat I only t well disciplin'd. The Indians have much Goldere Settlem and their Weapons are long Lances, and Bow soping here and Arrows, and Swords, and some Musquet effeshing for which they have taken from the Spaniards, at exproceed of know how to use them in Service; taking at a we what the Ammunition, &c. The Indians are very popular Captain of lous in the Land about Baldavia, and at Orson me, and and on the Island of Castro, and at Chile, a hore-side, po that they have much Gold on these parts about no near by; Or some and Chilue, and that they trade with the (which is Spaniards, and give them Gold.

This Captain said, that they have six granning from Ships going yearly from Lima to the Philipp at there wa Islands, to the Port of Mannelos, and that the mon how they

these Ships Lima, in the is but little

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have a great Trade with the Chineses; and that these Ships sail from the Calleo that is the Port of entle Lima, in the Month of Januar, and their passage Coun is but little more than two Months, from Lima Gold othe Port of Mannelos, and they fail it within he Tropicks, and have much Easterly Winds; Indthey return back by the Northwards, to gain the Westerly Winds, which brings them to Calia, bu fimia, and to the Port of Aquapulco, which lieth hat the on the West Coast of NovaEspana, and from thence If the hey come to Panama, and then to the Port of nd car Lima. They bring rich Lading, much Silks and aniara wher rich Commodities, and Spices and Callicoes. ds do: The Mannelloes have a great Trade with the Japone-s round wand Chineses, which is very beneficial to them. ne India the Captain demanded of me whither I was re, an wound ? I answer'd him, I was bound for China. Hork and that I had rich Lading for that Country; and ins, an that I only touch'd in at this place, knowing here h Goldwere Settlements of the King of Spain's Subjects, Bow sping here to have Wood and fresh Water, and usque essession for my Men, whereby I might the bet-ds, at reproceed on my Voyage. He said, I should ing all are what the Country would afford, and that y popule Captain of the Fort had tent for Provisions of the Fort had tent for Provisions of the Je, at hore-side, pointing his hand to the Place which ts abo asnear by; the Captain said it was Aqua del with the (which is Water of Gold in English.) ring caus'd me to laugh; then he said, it came ix graning from the Hills where they find Gold, and at there was Gold in that Rivulet. I asked m how they get the Gold? He faid, they wash

the Earth which is in the Mountains, and find the Gold in the Bowl or Tray when the Earthi wailed out. And they buy much Gold of the Indians, which they gather in the Gullies of the Hills, which is washed in there by the Rains, an fnow dissolved, which descend from high Moun tains, which they fay are very high and barre Rocks, thirty Leagues In-land from the Sea-shore The Land between those barren Hills and the Sea-shore, is mighty good Land, and the Country very fruitful, abounding in many Plains, an much Cattle that the Indians have; as Horses, an Cows, and Goats and Sheep, which they haven ken from the Spaniards, fince they came into the The Spaniards call the high rock Country. Mountains the Andes, and say that those And run all along the Land from Magellan Streigh in a row to S. Martha, which is in Terra firma, a hereabout. far from Cartegean.

The most Gold in the Land of America is But If Chile, as what is known at this time. the Spaniards have but little knowledge of t Land all along to the Southward, from Baldar th the Chil to the Streights Mouth, as far as I can und eat Wars. F stand by them, excepting at the Island of Calle frous of T There they have a Settlement, and on the Memfelves wit At the which are against Castro at a place called Orsono: two places they have good store of Gold, ms that mar there are many Indians; but farther Souther ho' they be than Castro, they know nothing of the Count as they can or of the Sea-Coast. Castro lieth in the Lating suture dan of 43 d. 30 m. the South-end of the Island, am at the pr the North-end lies in the Latitude of 41

rows good win numb d those too n Giants as ars with th learch the A Ship bro ity of Bald munition, r: and she I zoar Stone aves that th ey carry th wes of then ing hither, eChile India ere at the Fo and Mustes hite Men wh aniards mak

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find m. It is a fine Island, and near the Main, there ows good Wheat on it. The Spaniards are but win number there, but there are many Indians those too valiant and of a large stature; but the Giants as I understand: These Indians have and Oun us with the Spaniards, and will not suffer them rre fearch the Country for Wealth.

hore A Ship brought from Lima Provisions for the by of Baldavia and the Forts, and Cloths, and munition, and Wines, and Tobacco, and Sut; and the lades away from Baldavia Gold and s, and goar Stone, and red Wool, &c. and Indian to the ey carry them to *Peru*, and make perpetual rock eyes of them there; and the *Indians* of *Peru* they

And ing hither, and make Soldiers of them against eChile Indians, of which Soldiers there are mareigh ma, ne hereabout, whom my Men saw when they

reat the Fort. There were about thirty Indica is and Musteses Soldiers there, and some sixteen I fit hite Men who were Officers. Moreover, the of the miards make use of the Peru-Indians to Trade aldar ith the Chile-Indians for Gold, although they und at Wars. For they of Chile without doubt are Cash strous of Trade, whereby they may furnish the Micenselves with Knives, and Scissers, and Combs, At the which are wanting among them; as also with

old, ms that many times by stealth are fold to them, puthe ho' they be prohibited. Traders will be dealing ount as they can get benefit, they do not confider Latit future danger by its means, provided it miss

and, em at the present. f 41

to the

I ask'd them how far it was to Baldavia? they adid not c answered me, three Leagues, and that the Boat of Discourse could go up to it, and that it was situated by the but little side of the River and the Plains, and that there who are of the River and the Plains, and that there who are of the River and the Plains, and that there who are of the River and the Plains, and that there who are of the River and the Plains, and that there who are of the River and the Plains, and that there who are of the River and the Plains, and that the River and th were five great Ordnances in a Fort to command living the City, and that there were one thousand In the Corn g habitants in the City of all forts of Men, Wome and Children. I ask'd him, if there were an in living a passage by Land from Baldavia to the other par all Castro, a of Chile? they said there was, and they sent ever many ry Week, but they went with good Guards to go in before from the Indians. Then I ask'd them they built Shipping here? they faid No, but: #Ships were Felparrazeo they did build great Ships. I ask affurniture them who livid in the Island of Mocha? they sai The Anchor Indians, many Men and Women, and that the North-north were Poco Amigo's to them; in English, they we that hom Wibut small Friends to the Spaniards. There a his the wimany Sheep, Goats, Hogs and Hens, which to the side of Amigo's to them; Indians will sell for Hatchets, Knives and Bear some broke As to the Island of St. Mary, the Spaniards are Mare dered from the series of it, and have a Fort on it with five Guille Anchoris but sew Spaniards live there: it is plentiful North side Provisions, as Hogs, and Sheep, and Corn, a stathom Wa Potatoes: and they said there is some Gold, the North-nort the Indians have on the Island of Mocha, but the that Road. will not pare from it. The Spaniards did not care both the Island answering me to such things as I would glassare but me have heard of these parts; for I laid the Drauges from the of all that Coast on the Table before them, and see feet Wate ask'd them who liv'd at this Port, and who like Island of at that: at some places they would say the South. niards liv'd there, and some the Indians; the Island of

rdid not care to answer my desires, but frame oat Discourses to wave mine. I find that they but little acquainted on the Coasts to the the but little acquainted on the Coasts to the her thward of Baldavia; they say, they have Spanant he living on the Island of Castro, and that In Corn grows there, more especially Euro. wheat; and that on the Main there are Spale and living at a place called Orsono, which is a par at Castro, and that there they have Gold, and ever many Indians. I asked him if Shipping tog d go in between Castro and the Main? they em d not tell me, or would not; but they said but this went thither, which come from Lima ask Furniture for the People.

y sai The Anchoring at the Island of Mocha is on t the North-north east part of it, in a sandy Bay in y we htFathom Water near the Shore; a North-east ere and is the worst Wind for the Road. On the ich to the side of Mocha there lies a ledge of Rocks, Bead some broken Rocks on that part of the Island

re Matered from the Shore.

hev

Gue the Anchoring at the Island of St. Mary is on tiful North-fide in a fine fandy Bay, in eight or n, a Fathom Water, a fine Birth from the Shore: d, the North-north-west Wind is the worst Wind ut the that Road. There is Wood and fresh Water care with the Islands, as the Spaniards report. The glaces are but mean on the Coast, and the Flood brau is from the Southward, and rifes about eight m, in feet Water.

hold he Island of Mocha lies in the Lat. of 38 d ne South.

ns; The Island of St. Mary lies in the Lat. of 37 d. t South. They

They have Apples, and Plums, and Pears, and Olives, Apricocks, Peaches, Quinces, Oranges, Lemons, and many other Fruits. There are all Musk-Melons, and Water-Melons, &c. The Spaniards report it to be the finest Country in the whole World, and that the People live with the greatest Luxury of any on the Earth; they enjoy their Health with so much delight, and have much Wealth and I elicity, that they compared Land to Paradise, abounding above other Coutries with all Delights for Mankind.

I saw a good Testimony of the healthiness Goods; next the Country, for these sour Men who are a payment Board, are as well-complexioned Men as ever seed to me saw in my days: and the People ashore, by which they Men and Women of the Spaniards are well-complexioned People, of a ruddy colour, and seem plexioned People, of a ruddy colour, and seem wenty Shill be mighty Healthy. Some of the Men are well-completely well-completely where there is great flow lingland, the Provisions, and abundance of Gold in them; and Silver.

December 17. 1670. There went a short dinary Lea the Boat eighteen of my best Men I had in ey gave a Ship, and Men of good observation to infinite loath-Coats into matters of this Concern, which I had illings in E quainted them with; as touching the manner the Harbour and the Fortifications the buy Cloak miards have, and the disposition of the People on were ver and that it was my whole desire to have Compats, and U ence with the Natives of the Country that ought toget at Wars with the Spaniards, if by any means unders Lace shill it may be obtained; for it is my whole it Hats, in

fire to la the Eng. plainly t true Know

My M and the F the People of my Boa bought in s ot part fr delirous to Goods; ne: n payment ave a Piece dinary Lea ey gave a illings in E buy Cloak

to the Streights of Magellan. fire to lay the Foundation of a Trade there for and the English Nation for the future; for I see nges, plainly this Country is lost for want of the e alf The true Knowledge of it. My Men in the Boat observed the Harbour. in th h th and the Fortifications, and took good notice of the People. The Spaniards bought several things enjo of my Boats Crew: and paid for what things they ave aret Sought in good Pillar Pieces of Eight; they would Coul not part from any Gold, although my Men were defirous to have some rather than Silver for their iness Goods; neither would they part from any Bread n payment, pretending that they should have are s ever Bread to morrow from Baldavia. The things e, by which they bought of my Men at this time, were well-confusion wo Fowling-pieces, which cost in England about I feet wenty Shillings apiece, and the Spaniards gave are we kneen Pieces of Eight apiece for them; and a we wise of Knives of three Shillings the piece in t flore Ingland, the Spaniards gave five Pieces of Eight old a or them; and for single ten-penny Wires, they we a Piece of Eight a-piece for them; and for 1-shore dinary Leather-gloves, of ten pence the pair, ad in ey gave a Piece of Eight a pair; for Broadbath-Coats of the Seamen's, which cost sixteen I had sillings in England, they gave nine Pieces of name the for a Coat. They were very defirous buy Cloaks, and Pieces of Bays-cloth. e Peolem were very gallant in Apparet in their Pluthpats, and Under-Garments of Silk and Silver that ought together, and good Linnen, and good neans unders Laces, and broad about the Crown of whole in Hats, in Fashion of a Hat-band, and a

great Silk-scarf with Gold Lace on the ends of it, that was cross over their Shoulders; a short Cravat of Linnen about their Necks, and a Cane in their Hand headed with Silver; their Shooes and Stockings, and Breeches after the Spanish Fashion. They were very kind to my Lieutenant and Men, and treated them very courteously. They were not permitted to go into the Fort but were entertained in a Tent by the Fort. Four of the Spaniards Wives would needs go into the English Boat, and sit down on the Benches, to fay that they had been in a Boar which came from Europe. These were very pto. per white Women, born in the Kingdom of Peru. of Spanish Parents; they never had been in Europe. The Spaniards have some Indian Women to their Wives: The Women were all well apparelled in Silks after the Spanish Fashion, and about their Necks great Gold Chains, and Pendants at their Ears of Sapphyr Stones, &c.

The Captain of St. Jago's Fort prefented my Lieutenant with a Silver Tobacco-box, and a Silver-headed Cane, and a Plume of Ostriches Feathers, which he wore on his Hat at the same time: The Feather of the Plume is but small; nothing so good as the Barbary-Feather: The Plume was of red, and white, and blue Feathers dyed in the Country. I saw another Plume which a Spanish Gentleman gave to Mr. Wood which was black and large, and a very fair one made of the Ostriches Feather of the Country There are many Ostriches in the plain Landa and Guianacoes, which are the Beasts that bear

the red land. Kingdo

My I converse the Span lating the Wood a long P My Lieu and faid

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the red Wool, whereof Hats are made in England. There is much of this Wool in the

Kingdom of Peru and Chile.

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My People could not by any Means come to converse with the Natives who are at Wars with the Spaniards, and have the Gold, without violating the Spaniard's Power; for on the Shore within the Harbour, the Indians made a Fire by the Woods Side, and hung out a white F ag on a long Pole, and kept wasting of it a long time. My Lieutenant would have gone in his Boat to them, but the Spaniards would not permit him, and said that they were their own People who lived there.

My Seamen, which came aboard in my Boat, came to me, and told me, that the Lieutenant had been at Fort St. Jago, and had deliver'd my Message there to the Captain, but he had no Order for my fetching of Water, and that he wished my Lieutenant to go to Fort St. Peter; which he did, and a Fryar and two Spaniards went over with him in the Boat, the Flag of Truce flying in the Boat, and the Trumpeter founding, according to my Order, all the time, till they landed at the Fort. At their Landing, the Lieutenant was received very courteously by leveral Spanish Gentlemen, and defired to walk up to the Governour; which my Lieutenant did to a Tent where the Governour was; the Governour received the Lieutenant very kindly, and defired him to sit down. My Lieutenant presented my Respects to the Governour, and delivered to him the Cheese and Butter, toge- $H_2$ ther

ther with the Spice, Glasses and Tobacco-pipes, which I sent to him, and acquainted him, that I sent him, to desire to know if he would be pleased to permit my Boat to water to day, for my Boats lay ready, and had the Cask in them, and I waited his Answer. The Governour caused my Lieutenant and Mr. Fortescue to sit down, and drank to them in a Silver Bowl with Chile Wine: He gave no Answer to the Lieutenant at present, but sent an Officer and Soldiers and seized on my Boat; My Lieutenant desired to know what the meaning was that Possession was taken of the Boat? The Governour answered, he had Order from Don Pedro de Montaies, Captain General of Chile, to keep them till the Ship was brought into the Harbour under the Command of the Castle, and he was sorry he had no more Officers of the Ships in Possession.

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Sir, I

December 1670.

I examing Boat from me the who spaniards I they could ed with the could speal well; they

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A LETTER from Lieutenant Armiger to Captain Narbrough.

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here as Prisoners, but for what cause I cannot tell; but they still pretend much Friendship, and say, that if you will bring the Ship into the Harbour, you shall have all the Accommodation that may be.

Sir, I need not advise you further.

I am,

Thomas Armiger.

December 18.

John Fortescue.

I examined my Seamen which came in my Boat from the Lieutenant, and they related to me the whole Matter, and they believed that the Spaniards had a defign to betray the Ship, but they could not agree among themselves: I talked with the two Indians that came aboard, they could speak the Spanish Tongue indisferently well; they told me that I was a Friend to the Indians of the Mountains, and that I was not a Spa-

Vera

Spaniard: They would needs know of me where my Country is, and if I would come again? I made them answer, that my Country is a little Way off, on the other Side of the Sea, and that I would come again, and bring Knives, Hatchets. Beads, Glasses, &c. and live in the Country with then, and that they should see my Country; and that my King would give them many Things, and they should live with us; and that my King is the greatest King in the World, and commands all other Kings, and that our Names are English; the Indians laughed, and feemed to be very glad: I bad them acquaint the Indians of the Mountains, or In-lands, that I came to speak with them; and that I was their Friend, and would give them many Hatchets, and Knives and Swords, Gc. if they would come to me, and that I came purposely to speak with them; and that my Master, the Great King of England, hath fent them many Things, and would willingly fee them.

After these People had heard all that I said to them, they sat for a time mute, and considering of the Kindnesses they received from me and my Company, and that they must go a-shore again under the Command of the cruel Spaniards, they weeped extreamly, and uttered these Words, Numbra Spanalos mucho Diablo, &c. In English it is, The Spanish Men are much Devils, &c. I verily believe that these poor innocent Creatures speak Truth, for they are great Devils in abusing these poor Souls so unmercifully as they do. In sight of my Men, the Spaniards with a great Staff would

would ped with cause a Greatne the Span

Thefe the Land I gave to finall Lowere ver again to that I wo they wou, all this tin to fpeak wof thefe P

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them to de

These Per fet and well and have let tolerable, nance; the in enduring small Caps and their Galen Cloth, I of the Wood in the midd they put the

Shoulders,

would strike an *Indian* on the Head as he talked with him, and beat him all along, for no cause at all; but this they do to shew their Greatness and Imperiousness. The best Name the *Spaniards* can afford to call an *Indian* by, is

Dog, and Devil, and fuch like Names.

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These Indians say, that there is much Gold in the Land, and that the Spaniards have much Oro; I gave to each of these Indians a Knise, and a small Looking-glass, and some Beads: They were very thankful, and I put them in mind again to speak to the Indians of the In-land, that I would give them Knives and Glasses, if they would come to me. I was in great hopes all this time, that I should have the Opportunity to speak with my Golden Friends, by the means of these People; for they seemed to be glad of the Message, or of the Things which I gave them to do it.

These People are of a middle Stature, strongly set and well-sleshed; they are tawny coloured, and have long black slaggy Hair; their Features tolerable, of a somewhat melancholy Countenance; they are very active in Body, and hardy in enduring of Weather or Diet: They wear small Caps on their Heads like to Mounteers, and their Garment is a long Mantle; but most of their Garments are a square piece of Woollen Cloth, like a Carpet, of their own weaving of the Wool of Guianacoes: They cut a hole in the middle of this Carpet, through which they put their Head, and at hangs upon their Shoulders, and covers their whole Bodies like a

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Cloak,

Cloak, when it is buttoned down before. Some have these Cloaks so long, as it reacheth down to their middle Leg, and some to the Knee; some wear Half-Stockings on their Legs, but no Shooes nor Shirts: Some have Breeches after the Spanish Fashion, but close to their Thighs and Knees.

A NOTE which I fent to Lieut. Armiger, enclosed in a Letter.

Icutenant, take what notice you can of the Fortification of the Fort, and what Strength they have of People in it, and whether they are able to withstand a Ship; and what quantity of Provisions they have in it; and whether Don Carlos be there; send me an Account thereof by John Wilkins; I will use all Endeavours to have you off, when I understand the Strength of the Place.

I remain your loving Friend,

John Narbrough.

Burn all the Letters you receive from me; and in case of Examination ----

December

December Sun's Am good Obficompals

fterly.

I do mu ation, that between the America;
Latitude of to have two feveral good fame Instru

fame Interd Azimuth C grees and t eight Degre fame Paralle tions, and t I find the

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December 18. 1670. This Evening I took the Sun's Amplitude with my Compass, and I had a good Observation. I find the Variation of the Compass to be eight Degrees ten Minutes Ea-

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I do much reason with myself as to the Variation, that it differs so much in the same Latitude, between the East and West-side of the Land of America; for on the East-side, as I sailed in the Latitude of forty Degrees, I found the Compass to have twenty Degrees Variation Easterly, by several good Observations, which I took with the same Instrument as I now do use, which is a large Azimuth Compass; and here I find but eight Degrees and ten Minutes Variation; and it is but eight Degrees of Longitude more Westerly in the same Parallel, differing between these Observations, and the difference of Variation.

Ifind the Land to be but One hundred and wenty five Leagues broad, from the East-side to he West-side, in the Latitude of forty Degrees south of the Equinoctial; certainly the attractive quality of the Magnet must be very powerful in the Eastern Part of the Land, more than in the Western, which causeth the difference; yet I adnire, being on both Sides of the Land, the Comass should always have the same Variation afterly. I was of the Opinion that the Variation would have been Westerly on the West-side, theing Easterly on the East-side; but I find the contrary by Experience; therefore I believe that the attractive Quality is not much in this art of America, but in some other Part more

to

to the Eastward than I was; for if the attractive Quality had been in this Land, and I failing on both Sides of it, the Variation must have been Easterly on the one Side, and Westerly on the other. This Discourse I leave to a better Understanding; for I am not as yet satisfied what occasioneth the Variation and the great Difference of it, although I have been on feveral Voyages. and have made great Benefit of the Understand ing of the Variation of the Compass, in directing of the true Course, &c.

In the Port of Baldavia there are three fair Rivers, which come out of the Country, and empty themselves into the Port with a brisk Stream of fresh Water, which causeth the Stream always to fet out of the Harbour, and the Waters to be fresh just within the Harbour's-mouth: One River runs up into the South-East part of the Harbour into the Country; another River runs into the Country to the Eastward, on the back-ler, and have side of St. Peter's Fort: The third River runs ave; the Sa into the Country, about the North-Point of the lopes are made Harbour's-mouth, between the Point and the Indinstead of North-End of St. Peter's Island: It runs up in laws, or Kel the North-Eastward, and nine or ten Mils standels are scarce upon the River from the Harbour's-mouth. The les of Hemp City of Baldavia is fitu ted on the Bank of the lasts much River, as the Spaniards tell me.

I judge this City of Baldavia is but a small white Ced Place, and kept only as a Garrison, and a Placery heavy and for Trade with the *Indians* for Gold, Bezoar here are not Stones, Guianacoes-Wool, &c. The Spanian and: Good that were aboard, and the Indians said, that there ips, are als

were but fiv Men. I k every Thing Strength, a Ibelieve

Country a but little Ki Country; Spaniards to allo, that th oing; for t ainly have a davia, and roubled the Boats, and fr have there fo much like or y much. bout ten or i

eir Ships.

were but five great Guns in it, and three hundred Men. I know that they speak of the most of every Thing in the Matters, as concerning their

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Strength, and Number of Men. Ibelieve that these Rivers may run into the Country a long way, and the Spaniards to have but little Knowledge in the inward Parts of this Country; for the *Indians* will not fuffer the spaniards to search into the In-lands. allo, that these Rivers are not Navigable for Shiping; for the Bark which was there would cerainly have gone up the River to the City of Ballavia, and delivered her Goods there, and not roubled themselves to carry the Goods up in Boats, and finall flat-bottom'd Barges, which they methere for the purpose: The Barges are built : One much like our West-Country Barges, and smaller of the symuch. These Boats, or Barges, will carry er runs boutten or twelve Tons: They steer with a Rudback-ler, and have one Mast and Sail, as our Barges r runs ave; the Sail is made of Cotton-cloth, and the of the lopes are made of the Rind of Mangrove Trees; nd the ndinstead of Anchors, they have wooden Crabs up in laws, or Kellocks. Anchors of Iron and Graps standels are scarce in these Countries: Ropes and Cah. The les of Hemp are also scarce there, and good Firof the tasts much wanted in all these Countries for eir Ships. The Masts for their Ships are made 1 fmill white Cedar, and fuch like Wood; they are Placery heavy and short-grained, and will break short. sezoar here are not any Fir-trees growing in all the mian and: Good Workmen, for the building of

et ther hips, are also much wanted here, and Seamen. The

The smaller Boats which they have here are Canoas, being cut out of the Body of a large Tree, and shaped somewhat like a Shallop at the ends: Some are thirty feet long, and built one Streak of Board upon them, to raise them higher on their Sides; they will carry near twenty Men a-piece: Some are rowed with Oars, and fome are less, and rowed with Paddles; those which peter's Fort are walt, have a great Beam lashed fast along each Side without Board, which keeps them from over fetting. These Boats are very ill built; for I say not any one of them fit to row in any Sea-gate offession, t or for any Service, or to carry any Person of Quality the Por lity in. The Indians are the Spaniards Slaves to Vatives. The row them to and fro, and to do all manner of Labour; for the Spaniards will not lay their Hand Here grow to any thing in that nature, accounting it beneat de, such as them to foul their Fingers with Work; for the hich are ca scorn to be Servants one to another, let the on ticks, firm a be never so Potent, and the other not worth the rees on the Rags which he weareth; yet he scorns to be Servant to him, and live in America.

The Land about the Harbour of Baldavia is a good height, and in Land it riseth in lare Hills: It is low by the Water-side, and the Shor is fandy in some Bays, and broken shatty bits glittering Rocks, like Gold, lie shatter'd along! the Shore-side. All the whole Country is over grown with green Woods, as what I could f of it, and by the Rivers Sides: There is no tr velling in the Woods, they are so thick will Esteem, Under-brush, old rotten Trees, and Leaves, a mench Hollan

fuch Trash.

The Har and the Gu the other: he Harbou best them f St. Andre rest-side of our Ship, hot. The. outh-west ithin the M ind about t et long, and le an Anglii All Commo ry dear here ought to the the River of erchants Ha rts, and the ace, is very c

okings, Ribl

The Harbour is near a Mile and an half broad and the Guns cannot command from one Side to the other: St. Peter's Fort is near two Miles from he Harbour's-mouth; any Ship may come in and best them from their Guns, in St. Fazo Fort, and Men St. Andrew's Sconce, which are on the Southfome rest-side of the Harbour. After you are in, Saint which reser's Fort can do very little or no hurt at all to each our Ship, excepting it be accidental dropping over hot. The Spaniards have no Plantation on this I saw bouth-west Side; they only keep the Forts for -gate offession, that no foreign Ship may come and Qualave the Port free to ride in, and trade with the

wes to Vatives. The Harbour is like a Sound, after one is ner or within the Mouth of it toward the South Part. Hand Here grow many good Canes on the Shore-

seneatede, such as are brought from the East-Indies, or the hich are called Bamboas; these are very stiff the on ticks, firm and heavy; they grow among the rth the rees on the Sides of the Woods like Vines, and o be and about the Trees: Some are above twenty

et long, and taper from the Root to the Top.

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pia is te an Angling-Rod. n larg All Commodities which come from Europe are e Short ry dear here, and scarce; for they have none bits cought to them, but by the way of Panama, and long the River of Plata, which pass through several is over erchants Hands before they come into these uld firts, and the transporting of them from place to no truck, is very chargeable. Many also are but of k while Esteem, here being such plenty of them: es, all ench Hollands, Silks, Flanders Laces, Silkckings, Ribboning, French Linnen, Lookingglasses,

glasses, and such like Commodities were mud enquired for here, and would have fold at gre Rates.

Gun-powder for Fowling-pieces, is worth Piece of Eight per pound; and Bird-hot is wort two Ryals of Plate a pound, and a Ryal and half a pound. All Commodities of Europea Workmanship are of great worth here, as I unde stand; and believe, that more Northerly, on the Coast of Chile, about Vale Parazo, and Coquin and Areca, where there are more Inhabitan Commodities would bear a much greater Pri than what I mention, and there would vent great Quantities; for Silver is more plentiful by mu in these Parts than at Baldavia, they bein nearer the Mines of the Potofea; for the Silv of Potosea comes down to the Port of Areca, at from thence it is carried to *Lima* by Sea.

I am of Opinion, that the most advantageo Trade in the World might be made in these Par if it were but follow'd, and that leave were gran ed by the King of Spain for the English to tra freely in all their Ports and Coasts; for the Pe ple which inhabit there are very desirous of Trade; but the Governours durst not permit without Orders, unless such Ships of Force we to go thither, and trade per force, and not notice of the Governours; which might be ear performed by four Ships, of twenty and this Pieces of Ordnance a Ship; and I believe t the Natives in the Southern Parts of Chile, ab Castro, and Orsono, and at Baldavia, would ears, and bo brought to a rich Trade of Gold, when once the

new to be inployed o hem civilly hich may Miors, GI he like Co for what I i poard of n Part of the My Inter iil all alor buthward, lave Desiad with the Indi o trade wit

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of Castro and mong those thether the nformed me

Harbours.

he Names whom the whom I le

Thomas Ar nd born in A Fohn Forta ears, and b Hugh Cooe ears, and bo Thomas H

new to be acquainted with those that should be aployed on the Design, and they did but use hem civilly at the first, and gain their Loves; hich may be easily done, by giving them Knives, kinors, Glasses, Beads, Combs, Hatchets, and like Commodities, and treat them kindly. for what I understand by the Indians, who were mard of me, they are Masters of the Golden on the lart of the Country.

My Intent being, if Weather permit me, to il all along the Coast from Baldavia to the r Pri buthward, till I come to the Streights-Mouth at great the Desiade, I came in great hopes to meet being trade with them for Gold, and to find good Silv farbours. I resolve also to see in at the Islands ca, and Castro and Orsono, and try what I can find tageo thether they live accordingly as the Spaniard to Part Hormed me here.

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e gran he Names of the four Men of my Company, to tra whom the Spaniards detained at Baldavia, and he l'e whom I left there. us of

Thomas Armiger Lieutenant, aged forty Years, nd born in Norfolk.

John Fortescue Gentleman, aged twenty seven

ears, and born in Kent. d this

Hugh Cooe Trumpeter, aged twenty eight eve t ears, and born in Wapping.

Thomas Highway Linguist, aged thirty five ears, and born in Barbary of Moorith Parents: nce th

Hc

He turned Christian, and lived in London. This Thomas Highway is a Tawny-Moor; he speaks the Spanish Tongue very clear, for he had lived formerly at Cadiz with an English Merchant,

All these four were very healthy sound Men and of good Presence and Spirit; which gives me great hopes that they will live to give an Account of that Country, and of their Travels.

Cape Gallery, which is the outermost Point on the South-side of the Harbour of Baldavia, lieth in the Latitude of 39 degrees, 57 minutes. South of the Equinoctial; as also in Longitude to the Westward of the Meridian of the Lizar. of England, 70 degrees, 20 minutes, according to my Account; and in Meridian distance One thousand one hundred and eight Leagues West; and in Longitude, East from the West-Mouth of Magellan Streights and Cape-Pillar, two degrees and 40 minutes; and in Meridian distance 42 Leagues nearest, according to my reckoning.

Thursday, December 22. This Morning is prov'd very fair Weather; at Day-light, the Wind was at South-west, a fresh gale; the Sea indifferent longitude 1 smooth: I plied to the Windward along the atitude i d Coasts, and was about three Leagues off the ount, 47 d. Shore, somewhat to the Southward of Cape-Gallery, out of fight of the People of Baldavia; for her, the Wi the Cape was shut in with the Land to the Northward of the Harbour. At twelve of the Cloud I had a good Observation of the Sun with my Quadrant; and I found myself in the Latitude g I took th of 40 degrees 3 minutes South: I was then three compass to !

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Here are Seas, unli and black, Weather 1

made of th Fannary Sunday, her; Rain fout Gale hat I shoul Way, and fetches with he Ship fro Courses mad Noon, I mal om. West nd departu:

Wednesday V.N.W. a fi ome Porpus nd Sea-Fow

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December 31. This Afternoon it blew hard at N.W. and rained; I steered S. W. and by S. by my Compass, this Afternoon and to Night. Here are several Sorts of Porpus-Fishes in these Seas, unlike ours in Europe: Some pied white and black, and some grey and large ones. Rainy Weather to Night, and no Observation to be mide of the Shore.

January, Anno Dom. 1670-1.

Sunday, January 1. Raw, cold, cloudy Weaher; Rain and some Hail, the Wind at N. W. astout Gale, and a great Sea: I was much afraid hat I should lose my Main-mast, it fetched such Way, and broke the Spikes that fastned the fetches with working. I steered S. S. W. to ease he Ship from rolling what I could. After feveral to my Courses made from Saturday Noon till to Day Noon, I make the true Course to be South 29 d.

ing it 50 m. Westerly, and distance, sailed 105 Miles, Wind and departure West 66 Miles, and difference of fferent longitude 101 d. 37 m. 4 tenths; difference of g the attude 1 d. 32 m. 3 tenths; Latitude, by Ac-

off the bunt, 47 d. 47 m. South.
e-Gal- Wednesday, January 4. Indifferent fair Weaia; for her, the Wind at North-west, and sometimes at North-V. N. W. a fine Gale: I kept on my Course South. Clock ome Porpus Fishes seen to day, and some Whales the my ad Sea-Fowl; many little Peterels. This Mornttitude ig I took the Sun's Amplitude, and I find the n three compass to have 10 d. 28 m. Variation Easterly. eague

My Course, made true from Tuesday Noon till to Day Noon, is South; distance sailed 84 Miles, and the difference of Latitude is 1 d. 24 m. 8 tent. Lat. by good Observation of the Sun on the Meridian 51 d. 31 m. South. Meridian distance from Point Gallery, West 70 leag. 1 miles tent. Longitude at Noon from Point Gallery, West 4 d. 48 m. 4 ten. Longitude at Noon from the Lizard, West 75 d. 8 m. 4. ten. Meridian distance from the Lizard, West 1178 Leagues, 1 Mile, 5 Tenths.

Friday, January 6. Hasey, foggy Weather this Morning, the Wind at W. S. W. a stout Gales I steered in for to make the four Islands, which called the Isles of Direction, or to make Cape De stade: My Course was E. N. E. by my Compass the Nights being but short, and light; for the Moon was at the full, so that I could see at some

time a League before us.

At four of the Clock this Morning, it being fair day-light, I caused the Lead to be cast form but could not get ground at eighty Fathom: the reckon myself about ten Leagues from Cape Dished, and on the Latitude of 52 d. 53 m. South A little past four of the Clock, it cleared upon the East Florizon; we looked well abroad, a since saw the four Isles, called The Directions, which at the Mouth of the Streights N. N. W. from Cape Desirade, distance from thence about 8 League These Islands made in four Hommaccoes, is the Hay-cocks, when I saw them; they bear N. Of me, distant about 4 Leagues; they lie in the Latitude of 52 d. 42 m. and at five of the Chapter.

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to the Streights of Magellan. the Islands bore North of me, distant 3 Leagues

off; I founded, but could not get ground at 70 Fathoms: I saw Cape Desiade; it cleared up, for the Fog was much on the Hills; the Care was E. S. E. of me, distant near eight Leagues; the tops of the ragged Hills, or rocky Spires, were clouded with the flying Fog, to as I could not fee

the Cape sooner; for in clear Weather, the Land at Cape-Pillar and Cape Defiade may be feen 15

or 16 Leagues, it is fo high and ragged.

Isteered by Cape-Pillar E. and by S. the Wind at W. S. W. a fresh Gale; a great humming Sea. ran here, which came out of the S. W. I faw the Sea break upon broken Ground, which lieth at least four Leagues from the Point of Cape Defiade West into the Sea, and many Rocks that were funk, and Prints of Rocks above Water, which the Sea breaketh terribly: These lie off

Cape Desiade about two Leagues, and a League, and some not half a Mile off, very dangerous.

As I came nearer the Streights-mouth, I raifed the Land on the North-side by Cape Victory, and ape De the broken Mands within the Streights, which I Sour alled Westminster Isle, and the Lodgers Isle; they d up a make ragged in Hillocks at the first sight.

ad, at hine of the Clock Cape-Pillar bore South of me, being distant about a Mile and an half from

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No Tide or Current, as I could perceive, fet per, wher in or out of the Streights, to as to preju-

ice Navigation.

The difference of Longitude, East is 1 d. 39 m. tenths; the Latitude by my Account now, is but

52 d. 51 m. South; but formerly my Account of the Latitude of this Place, was South 52 d. 58 m.

Meridian distance at 9 of the Clock, from Point Gallery, West 35 leag. 00 mil. 5-10.

Longitude at 9 of the Clock, from Point Gal. lery, West 2 d. 43 min. 3-10.

Longitude at 9 of the Clock, from the Lizard,

West 73 d. 3 m. 3-10.

Meridian distance at 9 of the Clock, from the

Lizard, West 1153 leag. 00 mil. 5-10.

I find but very little Tide or Current in this Sea of Mare del Zur; for I am but 3 min. of Longitude out of my Account, in failing between Cape-Gallery and Cape-Pillar, forwards and backwards.

At any time, if you have a defire to enter the Streights of Magellan at the West-mouth, it will be satest in my Opinion, to bear in for the Land, in the Latitude of 52 d. and 50 m. South; and then you will see the four Isles of Direction, which lie before the Mouth of the Streights, somewhat toward the North-side: They lie N. N. W. from Cape-Pillar, near 8 Leagues distant. These Islands may be known; for there are but four of them, and they be but of an indifferent height, and but small, and bear irregular Rocks, and they be near together: The Eastermost Isle is near a Mile distant from the Eastermost Isle is near a Mile distant from the Other three, and it is pecked up like a Sugar-loss the Point at the Sea breaks much on these Isles with Western Winds, & C. Cape-Pillar is the streights-mouth, at the entring into the Streights; Cape Desiade is the Western

Westerly near S. W one from between Cape Defe Cape tren high ragg it, at the shatter'd I like the R Ledges of Leagues c much on t in the Lati koning. I are near 1 the I/les of ing of the S see the Lan a Stranger and had no itvery diffic to the East

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Westerly Point, for it falleth off from Cape-pillar near S. W. and they are distant about 2 Leagues one from another, which is the Face of the Lands between these two Capes; for at the Point of Cape Desiade, the Land on the South-side of the Cape trents off to the South-fouth-Eastward, all high ragged rocky Mountains: What I saw of it, at the pitch of Cape Defiade, there lie many flatter'd Rocks which are above water, and shew like the Ruins of old Houses; and there are Ledges of Rocks that are funk, which lie near 4 Leagues off of the Cape West; the Sea breaks much on them, and they are dangerous; they lie in the Latitude of 53 d. 10 m. South, by my reckoning. I called thefe Rocks The Judges; they are near 10 Leagues distant S. and by W. from the Isles of Direction, so broad is the first opening of the Streights; for when you can but once see the Land, to make it, there is no danger; but a Stranger that should pass out of the South-sea, and had not passed the Streights before, will find ey lie ivery difficult to pass the Streights from the West eagues to the East; for at the first entring into it out of r there the South-sea, as we call it, there are many an in-Openings and Sounds on the North-side, which ar irre-feem fairer for a Passage than the Streight itself: The doth; therefore it is best to keep the South-side, om the far aboard all along from Cape-pillar, which is r-lost; the point at the Entrance: The Course will be esterly E and by S. for a Mile or two, and then E. S. E. Rocks and S. E. and by E. So the Channel lieth to

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The North-side of the Streights from Cape Vi. Etory, all along to the East-ward to Cape Froward is all a ragged, rocky, mountainous, defolio Country; many high rocky Islands, and small Rocks, and fucking Rocks lie on the North-fide of the Streights, at coming out of Mar del Zur 15 Leagues in distance into the Streights to the Eastward. There also run great Sounds and Waters into the North-Land, which shew like Passage more than the Streights doth. no Safety for a Ship to keep the North-shore a board in this Part; for here lie so many Islands and Rocks, so that if the Weather prove foggy and thick, a Man may mistake the right Chall nel, and steer in among the broken Islands and Rocks, so far as to endanger his Ship, if the Wind be Westerly, and it is for the most parto the Winter there, very thick and foggy.

Here are many Sounds and Coves on the North-side, between Cape Victory and Cape Qual but how far they run into the Land, I know no I wanted a Sloop, or some other small Vessel, d'scover those Sounds; and many other Places before the P the Streights, which I would gladly have feen

January 6. In Tuesday-bay and Island hangth from there grows thick shrubby Bushes on the low Sandy Grou Land, which have many Berries like Hurts gro ring in fix, o ing on them: these Bulhes grow in a mossy loc eleven Fatho Earth, which lieth 4 or 5 Feet thick on the Roc ding with W these Bushes will serve for Fuel: There grows a worst Wind long sedgy Grass very thick; many Geese and this Reach Ducks of the Rock of the Ducks do make their Nests, and breed in it, a lere; for the other Sea-Fowl; Here are Ducks, white and preagues broadens

Brant-C and Per People 1 where th are Muse other Fif Sound, a lo much, lent from the Sound were joyfi the Ship w absence. Wind at I fast on the the N. W. Water con of the bare many Wha and Sounds Part is very At eight

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Brant-Geese, grey Gulls, Sea-Mews, Sea-Divers and Penguins on the Water; I could not see any People now, but some have been there; for I saw where they had made Fires, and an Arbour. Here are Muscles and Limpets on the Rocks; but as for other Fishes I saw none. I rowed two Miles up the Sound, and could have gone farther, but it rained 6 much, and blew so hard, as I durst not be absent from the Ship; the Water is mightly deep in the Sound. At Night I got aboard, my Seamen were joyful to fee me; for they were afraid that the Ship would have broke loofe in the time of my absence. Much Rain to Night, and Fogs, the Wind at W. S. W. a short gale at Night: I rode falt on the smooth Water, having the Point on the N. W. of me: Here is a great deal of fresh Water comes running in Streams down the Sides of the bare rocky Mountains into the Salt Water, many Whales spouting to and fro in these Bays and Sounds, and some Seals on the Rocks: This ? Quad Part is very defolate, and a meer Chaos, &c.

ow no At eight of the Clock this Evening, I anchored effel, before the Place called Batchelors River, in nine Fathom Water, clear fandy Ground, two Cables ind he lingth from the Shore. Here is very good clear Sandy Ground before the River, and good Anchoting in fix, or feven, or eight, or nine, or ten, or fly lot eleven Fathom: a fine barth of shore, and good Rie Rocking with Westerly Winds, and Northerly; the worst Wind is a S. Wind, for it blows right on n this Reach; but there cannot go much Sea ere; for the Streight in this Reach is but two eagues broad. This Batchelors River is near five

Leagues

Leagues to the Eastward of Cape Quade, and two Leagues to the Eastward of St. Ferom's Channel. on the North-side of it, the Tide runs of an indifferent Strength in this Place, both Ebb and Flood; it sets in and out of St. Jerom's Channel rifing and falling about eight or nine Feet per. pendicular; here is not above ten Foot Water at a High-water, at the going in of Batchelors River. This River is a good Harbour for Barks and Sloops, or the like. This River lieth in a Valley, and a fine Grove of green Trees grows on the West Point: At the Entrance here is a very good fresh Water, and a good Place to wood at. dian People or Natives frequent this Place often; for here are many. Arbours, which are their Houses: Calm Weather to Night, and foggy;

I rode fast, the Ship being moored.

Sunday, January 8. Calm Weather, and a fine warm Sun-shine: This Morning at Day-light, I went in my Boat with twenty Men into Batchelors River, and rowed four Miles up the Creek, or River, which was as far as the Boat could go, the Water being high: The River ends in a small Mullet, and Creek, coming out of a Lake of fresh Water, in Ship's Mastes a Valley amongst the Hills; we made the Boat careen'd her fast, and marched all into the Land 5 or 6 Miles, fresh Water, being stop'd from going surther, by Hills rising as we though very steep, and Mountains, and impenetrable January Woods: We made several Fires, but could not see Westerly. T any sign of them so far in the Land. No Beast lered to go or other Creature to be feen; many small Streams ligh as he co of fresh Water come running from the snowy adians: He Mountains, with great Falls from the steep Rocks; ot get high

welooke Streams o nor any o the Bush Hurts, ve loofe and Marble: here are f Board; ca

Here ei Journal, v land, from ingenious

Wednesa variable, f. made the men: Here our Main-1 nine Fatho we wanted, good Wate

welooked in many Places of the Earth, and in the Streams of Water for Gold, &c. but found none. nor any other Metal or Mineral: Here grow on the Bushes many small red Berries, much like Hurts, very good to eat; the Grafs-Land is very loofe and boggy: The Rocks are a kind of white Marble; the Trees like those at Port Famen; here are small Pepper-trees. To Night I got on Board; calm Weather: I rode fast with the Ship.

Here ends Sir John Narbrough's Manuscript Journal, which we shall continue home to England, from the MS. Diary, taken by Sir Fobn's

ingenious Lieutenant, Nathanael Pecket.

Wednesday, January 11. Fair Weather, Wind variable, from S. E. to S. W. This Morning we made the best of our way to get into Port Famen: Here we had Fishes from the Shore to fish a fine our Main-mast; at 12 a Clock we anchored in helors nine Fathom Water. This Place afforded what k, or we wanted, as very good large Trees for Fishes; o, the good Water, good wild Fowl, good Fish, like small Mullet, and large Smelts. Here we fitted our er, in Ship's Masts, and Rigging, as well as we could; Boat careen'd her, and filled our Casks with good Miles, fresh Water, and took as much Wood aboard, rising as we thought fit.

trable January 16. Fair Weather, and little Wind. otfee Westerly. This Morning the Lieutenant was or-Beaft lered to go up with the Boat in Segars River, as reams ligh as he could with convenience, and to see for nowy Indians: He went up about nine Miles, but could ocks; ot get higher with the Boat, by reason of the Trunk-

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Trunk-timber, and shoaliness in the Water. So I landed, and went up two Miles by Land to see for *Indians*; but I could not see any, nor any thing worth the Observation. How far the River runs up, I know not, for I saw not the end of it:

fo I returned a-board again.

January 29. Fair Weather, and little Wind at S. W. This Morning the Captain went over with the Pinnace to the South-shore, to see for Indians, and if there were an Harbour for Shipping, short of Port Famen. This Day came an Indian to the Point of Port Famen, and made a Fire; and I went a-shore to see what he had; but he had neither Bow, nor Arrow, nor any thing else, to the value of a Farthing: I would have had him come a-board with me, but he would not; as far as I understood by the Signs he made to me, he had been a Slave to some other Indians, and had run away from them, and was travelling home.

Tuesday, January 3 1. Fair Weather, Windvariable. This Evening the Captain came a-board again, having been over on the South-shore, to see for an Harbour, but could find none, nor see

any Indians.

Saturday, February 4. Fair Weather, Wind a W. by N. This Morning, at four a Clock, we fet Sail for Port Famen, and at eleven a Clock we were short of Freshwater Bay; and at fix Clock in the Evening, we anchored in twelve Fathom Water, in a fine sandy Bay, about sour Leagues to the Northward of Freshwater Bay.

February 5. Fair Weather, but very mud Wind, at S. W. and W. S. W. This Mornin

the Capt Indians, again abo

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again aboard.

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This Morning the Captain ordered me to take the Pinnace, and to go along the North-shore, and between Elizabeth's Island and the Shore, to see for Indians. In the Afternoon, it blew hard North-rly, that we could not fow a head; so I put back into a sandy Bay, and went a-shore, and stayed there all Night; and in this Bay we haled the same, and got a great many good and large Smelts; Smelts of 20 Inches long, and eight laches about.

Wednesday, February 8. Fair Weather, Wind W. S. W. This Morning, at four a Clock, I ran down the Streights with the Pinnace, keeping the North-shore a-board, and ran betwixt it and Elizabeth's Island, but faw no Indians; yet faw feveral Places, where they had been very lately, and where they had built their Canoas. From Cape Defiade to Elizabeth's Island, there is Wood and fresh Water plenty; but from Elizabeth's Island, to Cape Virgin-Mary, Wood and fresh Water is very scarce to come by. This Afternoon atthree a Clock, I got a-board again, and at four a Clock we came to an Anchor in eight Fathom Water, black Sand; we rid within a Mile of the North-shore: St. Georges, and St. Bartholomew's Island were both shut in one, and they bore S. S. E. of me; and Elizabeth's Island bore S. and by E. And here we rid with the Ship all Night.

February

February 9. Fair Weather, Wind Westerly. This Morning the Captain fent me to fee for Indians, but I could see none; yet I fell with a good Harbour for small Vessels, on the North-side, and at the South-End of a great deep Bay, thwart of Elizabeth's Island; the Entrance of this Harbour is not a Bow-shot from Side to Side: I sounded it and there was 12 Foot Water at a low Water; but within, there was 3 Fathom Water at low Wa. ter: From the Entrance of this Harbour, to the Upper-end of it, is about feven Miles. Here is in this Harbour great Store of Geese and Ducks: and a-shore there is great Store of Heath-berries and Hicts, and fmall Black-berries, good and well-tasted; but I saw no Indians, so I returned low: Here I a-board again; the Captain went into another afresh Gale, Harbour, a Mile to the Southward of the second wentup into Narrow on the North-shore, and sounded, and swnone, ar had four Fathom Water in it; it is very broad we pitched of within, and there is great Store of Sea-Crabs. February

Saturday, February 11. Fair Weather, Wind of Wind Wo variable. This Day the Captain ordered me to go the North-Il with the Pinnace, and discover the North-shore, Narrow; and and if I could with convenience discover some Narrow, but Part of the South; and to go to the first Narrow bove Highand there to stay for the Ship; so I went through there I landed the second, and landed on the South-side, in a sine of about, to sandy Bay, or Cove, expecting to fall with India or other Trace ans, for I saw many Fires up in the Land; I were commander up about five or six Miles, but could see no in the higher other dians. Then the Night coming on, I returned and the other again to the Boat, and there we pitched a Ten bey were all to lie in and lay all Night; and at High grant when dry I to lie in, and lay all Night; and at High-water arren, dry L

we let the there it sto the Pond a good and I very dry, in it worth

February

This Morn and there I edit, and h above half a between the dose under or fix Miles

to the Streights of Magellan.

we set the same thwart a Pond of Water, and there it stood until low Water; then we haled the Pond all over, and haled a-shore about 700 good and large Fish like Mullets. This Land is very dry, barren Land, and nothing to be feen

in it worth the Observation.

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February 12. Fair Weather, Wind Northerly. This Morning I went over to the North-shore. and there I fell with a fine Sandy Bay; I foundedit, and had 6, 7, 8, 9. and 10 Fathom Water above half a Mile from the Shore. This Bay is between the fecond Narrow and Cape Gregory. close under Cape Gregory; this Cape is about five or fix Miles to the Eastward of the second Narrow: Here I landed, the Winds being Northerly, other a fresh Gale, and haled the Boat up dry, econd wentup into the Country to see for Indians, but , and law none, and I returned to the Boat again, where broad we pitched our Tent, and lay all Night.

February 13. Fair Weather, and a fresh Gale abs. Wind of Wind Westerly. This Morning I ran all along to go the North-shore from Cape Gregory, to the first shore, Marrow; and I was no sooner entred into the first fome Narrow, but I faw three Anchors, which lay up rrow, here I landed, and haled up the Boat, and fearcha fine of about, to see if we could fall with any Guns, India or other Trade. One of the Men found an Iron wen Commander for some Ship's Poop: One of those no In Anchors were twelve Foot long in the Shank, nurned and the other two were eleven Foot a-piece, and Ten day were all Spanish Anchors. The Land here is water urren, dry Land, and affords neither Wood, nortreila

126 Sir John Narbrough's Voyage

fresh Water; and for the space of five, or six Miles about, the Land is full of Rats; they have Holes in the Ground like Coney-boroughs; their Food I suppose to be Limpet, for there is great Store of Limpet-shoals lying close to their Holes: I faw no Indians here, nor any thing worth observing. Night coming on, we here pitched our Tent, and lay all Night: Here are very good Sandy Bays on the North-fide, all the way betwist the first and second Narrow; for I sounded all along as I came down in the Boat, and had ten and twelve Fathom Water, a good Burth off.

Tuesday, February 14. Close, hasey Weather, with some Rain, and very much Wind Westerly. This Morning I saw the Ship coming down the Streights; and after the was through the Narrow. they brought her to, and I got a-board; and we made all the Sail we could, and by Night we got clear of the Streights into the North-sea; and at 3 a Clock Cape Virgin-Mary bore N. W. half a Point Northerly, distance 4 Leagues.

Thursday, February 23. Fair Weather, the Wind variable, from the N. N. W. to the will have 5 W. N. W. This Evening, at nine a Clock, we valie Sand. came to an Anchor in 22 Fathom Water, Sand Wednesda Ground on the South-part of America, in the Latevening, a of 47 d. 16 m. South; and then Care-Blanch Mary, bore N. N. W. of me, distant about 6 League

February 24. Fair Weather, and little Wing Mimation: Northerly. This Morning we weighed, to got Port Defire-Bay, and in the Evening at 6 a Clot we anchored in the Bay, in 14 Fathom Water.

Febru of Wind into Por fllabove more to b was brack Sunday Wind at Port Defin a Clock And then notby the Variation Blancho bo distance nir

and you ar Fathom W all the Coas gin-Mary, five League. 30 Fathom

Water; bu

E. N. E. of

May 19. Morning, at ada, upon les of Azo

Februa

to the Streights of Magellan. 127 February 25. Fair Weather, and a fresh Gale

of Wind Easterly. This Day the Long-boat went into Port Desire for fresh Water, but could not

flabove five or fix Puncheons; for there was no more to be had there, and all they brought a-board

was brackish: Fair Weather, Wind variable.

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Sunday, February 26. Fair Weather, and a fresh Wind at S. S. W. This Morning we fet Sail from Port Desire, to go for England; and at twelve Clock, I was in the Latitude of 47 d. 10 m. S. and then Cape Blancho bore N. W. of me. but not by the Compass; for here is a Point and half Variation Easterly; and at four a Clock, Cape Blancho bore W. N. W. of me, by the Compais, vn the

diffunce nine Miles, and then we had 20 Fathom

Water; but when it bears W. N. W. from you. nd we and you are 8 Miles off, you will have but ten

ght we fathom Water. Here is very good Sounding

as and all the Coast along, from this Cape to Cape Vir-W. half gin-Mary, which lies in 52 d. 15 m. S. Within

he Leagues off the Main, you will have 25 and

r, the 30 Fathom Water; and 10 Leagues off, you

to the will have 50, and 55 Fathom Water, it is black

ck, We palie Sand.
Sand Wednesday, May 17. The Weather fair. This the Law evening, at fix a Clock, we saw the Island of Blanch Mary, one of the Isles of Azores; it bore leagues. N. E. of me, distant about 16 Leagues, by

Wind Mimation: Fair Weather, Wind at S. E.

to go May 19. Fair Weather, Wind Easterly. This a Clock, the Town of Puntele-Vater, Jada, upon the Island of St. Michaels, one of the

les of Azores, bore North of me, distant about Februa two

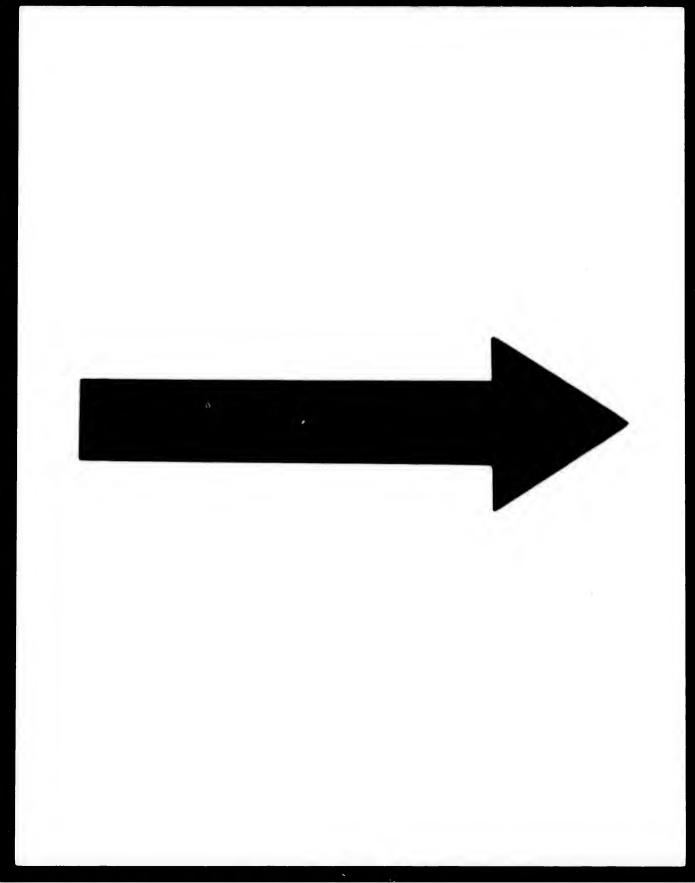
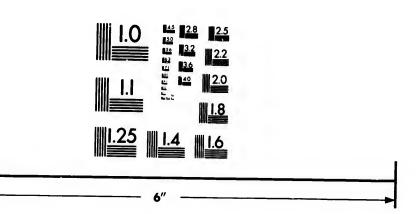


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Sir John Narbrough's Voyage

two Miles; and my Longitude difference from Cape Blanco to this Town is Meridian distance from Cape Blanco to this Town Miles, Tenths, Easting Leagues, this Town, lying so far to the Eastward of the Cape. This Day the Captain fent me a-shore to Puntelegada, to enquire News from England whether we had War, or Peace with any other Nation, or not; and I was informed by Mr. Richard Neucheuson, that we had War with none but the Argea-Men. So I returned a-board again and we made all the Sail we could for England.

Tuesday, May 23. Fair Weather, and much Wind at N.E. our Provisions being almost done and but litte Water in the Ship; we bore up to

go for Angria at the Terceras.

May 24. Close, hasey Weather, and a fresh Gale of Wind at N. E. and by N. This Force noon we anchored in Angria Rode, in 16 Fathom Water.

Friday, May 26. Fair Weather, and little Wind at N. E. This Forenoon we fet Sail out of

Angria-Rode, to go for England.

Saturday, June 10. 1671. It was hasey, dirty Weather, Wind at S. W. This Morning I faw Scilly, at feven a Clock; it bore N.E. by N. of me, distant about 5 Leagues; and at six a Clock in the Afternoon the Lizard bore North of me distant about 3 Leagues. Now, I make my diff ference of Longitude, from Cape Blancho to the Lizzard in England, to be 60 d. 45 m. 2-10. and my Meridian distance is 840 Leagues; I am fo far to the Eastward of the Cape.

ARelatio Terra nal of which Southa mens l Space of ed roun ctive O of the World a other ca Places a since pul Rembr

N the Y two Sh Heems the 5th t the Island 3d. 48 m.

Dr. Ho

Dutch Miles ng, which n

Relation of a Voyage made towards the South Terra Incognita; extracted from the Journal of Captain Abel Jansen Tasman, by which not only a new Passage by Sea to the Southward of Nova Hollandia, Vandemens Land, &c. is discovered, and a vast space of Land and Sea incompassed and sailed round, but many considerable and instructive Observations concerning the Variation of the Magnetical Needle in Parts of the World almost Antipodes to us; and several other curious Remarks, concerning those Places and People, are set forth. Not long since published in the Low Dutch by Dirk Rembrantie, and now in English from Dr. Hook's Collections.

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N the Year 1642. Aug. 14. He fet Sail with two Ships from Batavia, to wit, the Yacht Heemskirk, and the Fly-boat Seahaen; and the 5th. of September came to an Anchor the Island Mauritius 20 d. South Latitude, and 3d. 48 m. Longit. They found this Island 50 mich Miles more Easterly than by their reckong, which make 3 d. 33 m. of Longitude. The K

130 A Voyage made by Captain Tasman

8th. of October they departed from thence, and went nearly South, till the 40, or 41 d. having N. W. var. 23, 24, and 25 d. to the 22d. of October. From that time they bore away East fomewhat Southwardly, till the 29th, when they were in South Latitude 45 d. 47 m. Longi. 89 d. 44 m. Var. N. W. 26 d. The 6th of No. vember they were in South Latitude 49 d. 4 m. Longit. 114 d. 56 m. N. W. var. 26 d. with much dirty, misty, windy, and gusty Weather, and with hollow Waves out of the S. W. and S. 6 that we could not conceive there could be any Land very near upon these Points. November 15 Latitude S. 44 d. 3 m. Longitude 140 d. 32 m. N. W. var. 18 d. 30 m. which decreased apace fo that on the 21st. being in 158 d. Longit. Variation was no more than 4 d. The 22d. being the next day, their Compass would not stand si as it ought; therefore they guessed there wa here some Mines of Load-stone, for that the Compass stood not still upon any of the eight Points. The 24th of Nov. in South Latitud 42 d. 25 m. and their middle Longit. of 163 50 m. they faw Land E. by N. distant from the To Miles, which they named Anthony van Di mens Land. Here the Compass stood right this Land in the Longitude of 163 d. 50 m. The had much stormy bad Weather, so they we away S. by E. along the Coast to 44 d. of Son Latitude, where the Land runs away E. and all N. E. and northerly: Here in the Longitu 167 d. 55 m. and Latitude 43 d. 10 m. the Member 9. cange to anchor in a Bay, which on the if

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December They he but saw 1 two, or t 65 Foot 1 these Tre of Steps, and take were abou ther conc that they I of the said the one Tr as if it had cut; the n heard, was little Gom, nobody. having Cla They found Lac of the here about thick, nor i derwood; Smoak of F

set up a Sta Princes Flag ariation. I 169 d. they mens Land,

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December they named Frederick Hendricks Bay: They heard, as they thought, the noise of Men. but faw none; they faw also two Trees about rwo, or two and a half Fathom thick, and 60, or 65 Foot high below the Branches; the Bark of these Trees was cut with Flint, peeled off in form of Steps, to help the Inhabitants to climb them. and take the Birds Nests thereon; these Steps were about 5 Foot asunder, so that we must either conclude these People very great, or else that they have some unknown Trick to make use of the faid Steps for climbing these Trees. In the one Tree the Steps seemed so fresh and green. as if it had not been four days since they were cut; the noise of Men, and the Play which they heard, was much like that of a Jews-Trump, or little Gom, which was not far off; but they faw nobody. They faw the footing of wild Beafts. having Claws like a Tyger, and of other Beafts: They found also Gum of the Trees, and Gum-Lac of the Ground. The Ebb and Flood was atitud here about three Foot. The Trees stood not f 1634 thick, nor incumbred with thick Bushes, or Unn the derwood; they saw likewise in several Places the an Die Smoak of Fire. Here they did nothing but only right aft up a Stake with the Companies Mark, and a n. The Princes Flag thereon; there was here 3 d. N. E. rariation. December 5. S. Lat. 41 d. 34 m. Long. 169 d. they went away E. from Anthony van Diof Sout nd aft mens Land, with purpose to run away E. to the ingitudingit. of 195 d. to find the Islands of Solomon. n. the ember 9. with S. Lat. 42 d. 37 m. Long. 176 ne 18 . 29 m. N. E. variation 5 d. Decemb. 12. they

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132 A Voyage made by Captain Tasinan had hollow Waves out of the S. W. therefore

from that Quarter no Land is to be expected.

December 13. Latitude S. 42 d. 10 m. Longitude 188 d. 28 m. N. E. var. 7 d. 30 m. they had Land in fight, which was very high and hilly and which in the Charts is now called New Zealand; they went N. Eastwards along the Land as the Chart shewed it, till they anchored in a Bay. in S. Latitude 40 d. 50. m. Longitude 191 d. 41 m. N. E. variation 9 d. and that on the 18th of December 1642. These Inhabitants were rough of voice, thick and gross made, they came not within a Stones cast on Board of us, and blew feveral times on an Instrument, which made a noise like a *Moori* Trumpet; in answer thereto we blew ours. Their Colour was between Brown and Yellow; they had black Hair, bound fast and tight upon the Crown of their Head, in the same manner as the Japanners have theirs behind their Head, and near as long and thick of Hair, upon which stood a great thick white Feather; their Clothes were of Mats, others of Cotton, but their Upper-parts were naked.

December 19. These Antipodes began to be they were somewhat bolder, and more free; so that they endeavoured to begin a Truck or Merchandize the Yacht, and began to come on Board; the Commander seeing this began to fear, less thirty or they might be fallen upon, and sent his Boat or they should not trust these People too much; they went off from the Ship, and not having any Arms with them, were set upon by these Inhabitants, and very wide P

tow three o faved th deavour they we this real in the ( and four seems a ated, bu West Wi get out. would no ward, the Paffage to of the S. I to the Bay 26th the Northerly 1643. in 9m. N.E N.W. Cap out of the must be a they were Here lay as Mand, to and being thirty or th (as well as

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towards the South Terra Incognita.

three or four of them were killed, and the rest faved themselves by swimming: This they endeavoured to revenge, but the Water going high, they were hindred; this Bay was by them, for this reason, named Murderers Bay, as it is marked in the Charts. From this Bay they went on E. and found the Land all round about them: It seems a very good Land, fruitful, and well situated, but by reason of the bad Weather, and West Wind, they had a great deal of Trouble to get out. The 24th of December, because the Wind would not well fuffer them to go to the Northward, they not knowing if they should find any Passage to the North, and the Flood coming out of the S. E. they concluded to go back again into the Bay, and there feek a Passage; but the 26th the Wind better ferving, they went away Northerly somewhat to the West. January 4. 1643. in S. Latitude 34 d. 35 m. Longit. 191 d. 9m. N. E. variation 8 d. 40 m. they came to the N.W. Cape of this Land, and had hollow Waves out of the N. E. and therefore doubted not there must be a great Sea in the N. E. whereupon they were glad, as having now gotten a Passage. to be Here lay an Island which they named three Kings it they Mand, to which they went to refresh themselves, andize and being come near, they faw upon the Hill Board; thirty or thirty five Men, being of tall Stature er, left (as well as might be difcerned from far ) with Boat or Sticks or Clubs, who called to them with harsh or loud Voices, but they could not understand

1; they Arm them; and those Men, when they walked, made nts, and very wide Paces or Steps. In turning about this

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134 A Voyage made by Captain Tasman

Island there appeared very few Men, and they saw little or no cultivated Land, but only sound a fresh River, where our People intended to get fresh Water, but by some unlucky Accident were prevented; whereupon it was resolved to go with an Eastern Course to the Longitude of 220 d. and then Northward to the South Lat. of 17 d. and from thence Westward to the Cocos and Horns Islands, first discovered by William Scouten; and then, if not sooner, to recruit; for they had indeed been upon Anthony van Diemens Land, but had met with nothing; and upon New Zealand they had not so much as once been a-shore.

Jan. 8. In S. Latitude 30 d. 25 m. Longitude 192 d. 20 m. N. E. variation 9 d. they had great Waves out of the S. E. so that upon that Point no Land can be hoped. January 12. South Latitude 30 d. 5 m. Longitude 195 d. 27 m. N. E. variation 9 1-2 d. they had hollow Waves out of the S. E. and S. W. January 16. in S. Latitude 26 d. 29 m. Longitude 199 d. 32 m. N. E. va-

riation 8 d.

The 19. In S. Latitude 22 d. 35 m. Longitude 19, planted 204 d. 15 m. N. E. variation 7 1-2 d. they faw an Island about two or three Miles round, high, forme, and similarly have come nearer to it, but could not, because of the S. E. and S. S. E. Wind; they gave sit the name of Pillstreets Islands, because of the from this multitude of those Fowls; the next day they saw some of aw again two Islands. The 21st of January in S. Lat. 21 d. 20 m. Longitude 205 d. 29 m mer Resolut N. E. variation 71-4 d. they came to the North Longitude 205 S. Lather therms.

ton thermo high; t the othe got mai the Inha and app they tak is not gr Flood S. and it Ac continual Yacht He the Island not easie 20 d. 15 1 6 I-3 d. they came in the Cha without A theevi!h: I Refreshmen found the ty, planted whose Beds fome, and f in almost al to that it w. sides giving

towards the South Terra Incognita. 135 thermost Island, which was the biggest, and not high; they gave it the Name of Amsterdam, and the other Middlebus b. On this Amsterdam they got many Hogs, Hens, and all forts of Fruits; the Inhabitants were friendly, had no Weapons, and appeared to know no Evil, excepting that they take the Liberty to steal; there the Current is not great, the Ebb runs near N. E. and the Flood S. W. A S. W. Moon makes high Water, and it flows 7 or 8 Foot at least; the Wind is continually S. E. and S. S. E. wherewith the Yacht Hemskirk was adrift, but faved herself off the Island, yet took in no Water, which here was not easie to come by. January 25. in S. Lat. 20 d. 15 m. Longitude 206 d. 19 m. N. E. var. 6 1-3 d. After having seen several little Islands. they came to the Island Rotterdam, as you see it in the Chart. The People were friendly, and without Arms as the former, but likewise very theevilh: Here they got fresh Water, and other Refreshment; they went through this Island, and found the Cocos, or Clappus Trees in great plenty, planted orderly one by another, and Gardens whose Beds were made square, and very handsome, and set with all forts of Fruit Trees, which inalmost all Places were planted in a right Line; so that it was a pleasure to behold them, on all sides giving a fragrant and delightful Smell. of the From this Island Rotterdam they departed, and

would d not, y gave y they faw fome other Islands which you see in the ary in Chart, and now defigned, according to their for-29 mer Resolution, to go away North till the 17th

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Traitors

136 A Voyage made by Captain Tasman Traitors and Hornese Island; they had the Wind at S. E. and E. S. E.

February 6. In South Latitude 17 d. 29 m. Longitude 201 d. 35 m. they were intricated among about 18 or 20 Islands, which were all encompassed with Sands, Shoals, Banks and Rocks, which Islands are marked in the Charts by the Name of Prince Williams Islands, and Hamskirks Shoals.

February 8. In S. Latitude 15 d. 29 m. Longitude 199 d. 31 m. they had a great deal of Rain, and hard Wind out of the N. E. and N. N. E. with hasey and dark Weather, and fearing lest they might be more Westwardly than by their Reckoning, that they might not fall to the Southwards of Nova Guinea, or on unknown Coasts; also by reason of the windy dark Weather, they concluded to go on N. or N. N. W. to 4, 5, or 6 d. of S. Latitude, and then away W. to Nova Guinea, and so to be in less danger.

February 14. In South Latitude 16 d. 30 m. Longitude 193 d. 35 m. till this time they had every day Rain with Storms, but now 'twas more Calm; they haled the Ship Seahaen, and found their Reckonings to agree.

Feb. 20. In S. Lat. 13 d. 45 m. Long. 193 d. 35 m. they had fill thick, dark, mifty and rainy the Coast of Weather, the Sea coming out of all Quarters, and the Wind variable. Feb. 26. Lat. S. 9 d. 48 m. Long. 193 d. 43 m. the Wind was constantly N. W. They had not had one dry day in twenty one. March 2. Lat. S. 9 d. 11 m. Longit. 192 d. alls away S. 46 m. N. E. var. 10 d. the Weather and Wind variation of the Weather and Wind variation.

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variable. Longitud before. Longitud Before th no Observ dark, and March 20 181 d. 16 grew bette Longitude Easterly T four Miles small Islan Charts On Miles from S. Latitude variation 9 Mands of and Fohn l number: T black Hair Bay in Nov by Green Is April 1. in S

towards the South Terra Incognita. 137 variable. March 8. Latitude South 7 d. 46 m. Longitude 190 d. 47 m. Weather and Wind as before. March 14. South Latitude 10 d. 12 m. Longitude 186 d. 14 m. N.E. variation 8 d. 45 m. Before this, for twelve days time, they could get no Observation, because every day it was thick, dark, and dirty Weather, with much Rain. March 20. South Latitude 5 d. 15 m. Longitude 181 d. 16 m. N. E. variation 9 d. the Weather grew better. March 22. South Latitude 5 d. 2 m. Longitude 178 d. 32 m. Good Weather with Easterly Trade Wind; they got fight of Land four Miles W. from them: It was a number of small Islands, about twenty in all, named in the Charts Onthong Java, which lye about ninety Miles from the Coast of Nova Guinea. March 25. S. Latitude 4 d. 35 m. Longitude 175 d. 10 m. variation 9 d. 30 m. they were up with the Islands of Mark, all found by William Scouten and John le Mair, being fourteen or fifteen in number: The Natives are Savage, and have their black Hair tyed up like the Rogues of Murderers Bay in Nova Zealandia. March 29, they passed by Green Island; the 30th by St. Johns Island. April 1. in South Latitude 4 d. 30 m. Longitude 171 d. 2 m. variation 8 d. 45 m. they reached rainy the Coast of New Guinea as a Cape, called by the Spaniards Cabo St. Maria, and went along the 18 m. Coast, which lies about N. W. to Anthony Caens sland, Garden rs Island and Fishers Island, to the venty Promontory, called Struis Hook, where the Land alls away S. and S. Eastwardly which they fol-Wind lowed, and went Southerly, until they should disco-

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138 A Voyage made by Captain Tasman

discover the Land, or else find a Passage to the South. April 12, S. Latitude 3 d. 45 m. Longitude 167 d. 00 m. N. E. variation 10 d. Here they had a fudd in Earthquake, that all they that were fast asteep came up out of their Cabbins. very much affrighted, imagining that the Ship had struck upon : Rock, but casting the Lead, found no Ground; they had afterwards feveral Shakes of the Earthquake, but never so violent as the first; they were then within the Struis Hook, standing into the Bight Bay of Good Hope. April 14. South Latitude 5 d. 27 m. Here they faw the Land from the E. N. E. into the S. and so on to the S. S. W. they intended to find a Passage between both, but found this to be all one Land even into the West, wherefore they turned their Course Westward along the Coast, and had much Calms. April 20. in S. Lat. 5 d. 4 m. Longitude 164 d. 27 m. N. E. var. Illand Moa 8 d. 30 m. By Night they came by the Burning one of our Island, and saw a great Fire come out of the top shot by one of the Hill; of which also William Scouten writes: they were g They went between this Island and the Main, wherewith and faw many Fires close by the Water, as of their ow towards the middle of the high Hill; whence that had fl they argued this to be a populous and well in him what w habited Island; they had along this Coast of were better Nova Guinea much Calms, and saw frequently were in the drift Wood, as small Trees, Bamboes, and othe People took filth, from the Land that came out from the Right Hafts, vers, which made them conclude that there ar harp, and for many Rivers, and that it must be a good Landbable they s

toward

The next and went South Las they thou it was Fa here they The Peop heard our repeat, w guage is v be pronou ter R. and Word. T where lik here, by r till the 6th 6000 Cocoabout the

The Villiam Scou

towards the South Terra Incognita. 139 The next day they pass'd the Burning Mountain, and went along the Shore W. N. W. April 27. in South Latitude 2 d. 10 m. Longitude 156d. 47 m. they thought they were at the Island Moa, but it was Fama, a little more Easterly than Moa; here they got many Coco-Nuts and other things: The People were wholly black, and what they heard our People speak they could very perfectly repeat, which is a certain Sign that their Langiage is very copious in Words, and difficult to be pronounc'd, because they use much the Letter R. and fometimes two or three times in a Word. The next day they came before Moa, where likewise they got much Refreshment; here, by reason of contrary Winds, they stay'd till the 6th of May, so that they truck'd for near 6000 Coco-Nuts, and 100 Bundles of Pylanghs; in S. about the Beginning of their Traffick on the E. var. Island Moa, whether maliciously or otherwise, urning one of our Company was hurt with an Arrow he top hot by one of the Inhabitants: Whilst this pass'd writes: they were getting their Ships nearer to the Land, Main, wherewith this People were so frighted, that er, and of their own accord they brought aboard him then that had shot the Arrow, for us to do with ell in him what we pleased, and from that time they oast of were better to be spoken withal, whether it uently were in their Traffick or otherwise, so that our l other People took Pieces of Iron Hoops and fitted them the Righto Hafts, and made them fomewhat bright and re ar harp, and so put them off for Knives. It is pro-Land table they still remember what befel them with

The Villiam Scouten 27 Years before: 'Twas in the

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140 A Voyage made by Captain Talman, &c. Year 1616, July 16. for they having dealt very traiterously and perversly with him; Jacob le Mair went with the Ship close to the Land between the Islands, and shot with his Great Guns along the Strand, and into the Woods, fo that the Bullets flew through the Trees with a great Noise, whereupon these Negroes sled, and durst not once peep out; but at length they grew very May 12. in S. Lat. 0 d. 54 m. and tractable. Long. 153 d. 17 m. N. E. Variation 6 d. 30 mthey fail'd along the N. fide of William Scouten's Island; it seems that the People are nimble, and that the Island is well inhabited, and is about 18 or 19 Miles long. May 18. S. Lat. o d. 26 m. Long. 147 d. 55 m. N. E. Variation 5 d. 30 m. they had pass'd the Cape of Good Hope and come to the West end of New-Guinea, a broken Point of Land. They had much variable Calm and contrary Winds with Rain; From hence they went Southward for Seram, and came on the North side thereof. On the 27th of May they went on Narratives h through the Streights to the North of Boure en ecorded in Bouton, and so for Batavia where they arrived at is, to so June 15, in South Latitude 6 d. 12 m. and Lon-formerly un gitude 127 d. 18 m. the Voyage was finish'd in probable Reten Months.

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N fin an he faid Voy.

The first if tus Sir Hug hree Sail of Cape of Fin here he fay unnot be fa hat it was fi

ARelation of a Voyage for the Discovery of a Passage by the North-East, to Japan and China; Perform'd in his Majesty's Ship the Speedwel, and Prosperous Pink, Anno Domini 1676. Where is shew'd the Reasons and Grounds of the Probability of a Passage before the Attempt, with some good Observations made in the faid Voyage, by Captain John Wood.

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O write a full Relation of all those Navigators that have attempted to find a Passage by the N. E. to China and Japan, will be needless, since their ent on Marratives have pass'd most Hands, they being ure of recorded in Hackluit and Purchase; but my In-arriv'd rent is, to show wherein those fail'd that have HLon-formerly undertaken it, and then to shew the h'd in probable Reasons that induc'd me to undertake he faid Voyage, with the Event there of.

The first that ever attempted the said Voyage, rus Sir Hugh Willoughby in the Year 1553, with hree Sail of Ships, and he fail'd to the North Tape of Finnarke, and then into the Lat. of 72, there he fays he faw Land; but to this day it mnot be found again, and I am of Opinion hat it was some Fog Bank that he saw; for in

my

my Return home, I ran over the same place where our Chart-makers lay down that Land; but certain it was, that by foul Weather he was forc'd into a Harbour in Lapland, call'd Arzena, where by the Continuance of bad Weather, he could never return out, but was there frozen to Death with all his Ship's Company; fo that of this Voyage there was no Light given to find a Paffage that way.

The fecond that attempted, was one Captain Stephen Burroughs, afterward Comptroller of the Navy to Queen Elizabeth. In the Year 1556. he set forward, and pass'd the North Cape, and failing farther Easterly, discover'd the Waygates, that is the Streight that runneth between the South Part of Nova Zembla, and the Sammoyds Country, where he enter'd, and believing that Sinus, or Bay, the Eastward of the Streights, to be a free and open Sea, he return'd with Hope of Passage that way to China and Japan.

The third that attempted, was Captain Arthus Pett, and Captain Charles Jackman, in the Year 1580, being fent out by Queen Elizabeth to follow with difficul the Track of Burroughs; to, setting forwards the land; but h came to the Waygates, and passed the Streights Barrans dye and came into the Sea to the Eastward, where the pany. met with such a vast Quantity of Ice and ball The next Weather, that they with great Hazard, Peril, an Piscoverer o Labour, were forc'd to return, but by foul Weath the Year ther lost one the other, and Pett was never hear the Voyage

of since; so the Passage through the Waygate So the The was in England laid by, as thought not possible wholly that way, and then the Hollanders undertook i lear or two

The for ms, a v lent out Year 160 being enti with Ice th lo tasting which neit observed; bability of ouraging wthe Nor might be p

So in the rived on th of 73, whe the Shore ti could get n driven on S it, and he co allendured ever Mortal

of a North-East Passage.

The fourth that attempted it was William Barnow, a well Experienced Navigator and Artift, fent out of Holland by Prince Maurice in the Year 1606. He failed into the Waygates, but being entred, he found the same Incumbrance with Ice that Pett and Jackman had done before; btasting of the Water, and finding of it fresh, which neither Burroughs, Pett, nor Jackman, had blerved; he returned without any hope or probility of a Passage that way; but this not disouraging him, he refolved a second Adventure whe Northward of Nova Zembla, to see what might be performed that way.

So in the Year 1607, he let forward, and armed on the Coast of Nova Zembla, in the Lat. of 73, where he met with Ice; and so coasted the Shore till he came to the Lat. of 76, where he wild get no farther, and by the Ice was there its, to driven on Shore, and his Ship broke in pieces by Hope it and he confined to winter there, where they Mendured the greatest Extremity of Cold that Arthu ever Mortals did; the Winter being past, they e Year with difficulty, in two Boats, got to Cola in Lapfollow s the land; but before their Arrival there, William eights Barrans dyed, to the great grief of all his Com-

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nd ball. The next that attempted it, was that famous il, an Discoverer of our own Nation Mr. Henry Hudson, Weam the Year 1610. but he being disheartned by hear the Voyage of Barrans, attempted but little.

so the Thought of a Passage by the North-East possible ras wholly laid aside, till of late within this ook lear or two some Novel Accidents happening,

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the Opinion of the North-East was received in fome, and fomething relating thereunto was printed in the Transactions of the Royal Society.

Now will I come to the Reasons that induced me to believe there was a Probability of a Passage, and then the cause of my undertaking

of the said Voyage.

My first Reason was grounded on the Opinion of William Barrans before spoke of; which was, that Nova Zembla and Greenland being 200 Leagues distance between one and the other. that if he had steered away North-East from the North Cape, which would have brought him in the mid-way betwixt the two Lands, that then he might have probably found an open Sea, free from Ice, and so consequently a Passage; andin that Opinion he remained to his dying day; for he did verily believe that the Ice was not to be met off of either Shore more than 20 Leagues, and the rest to be free and open, and that his being too near the Shore of Nova Zembla, was the cause of his meeting so much Ice, which was the Overthrow of his Voyage; and if he had lived, he had purposely intended another Voyage, and to have failed the mid-way.

The fecond Reason that made me believed Passage, was a Letter sent out of Holland; which is published in the Transactions of the Royal Society, which affirmeth, the Grand Czar of Muscovia had me return'c caused a particular Survey of the Land of Nova at they ha Zembla, and that they had found it to be no within Island, but to join to the main Land of Tarta ey did mee ria, and that to the Northward of it was a free a, and that

and open Sea.

The th of a Voy the Ship of China, Silves. T at last esca wherein. lates this; there doth with Engli which, if a Paffage. . The fou Moxons, w fince, heard lieve the re

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The third, was a Journal printed in Holland; of a Voyage from Batavia to Japan, wherein the Ship was cast away upon Corea, a Peninsula of China, where by the Natives they were made Slives. The Relater having been there 16 Years; at last escaped to Japan; and writ this Journal, wherein, amongst other Observations, he relates this; That in a Bay on the Coast of Corea; there doth at feveral Times drive in dead Whales with English and Dutch Harping Irons in them, which, if true, had been a great Argument of a Paffage:

. The fourth, was a Relation of Mr. Foseph Morons, who being in Holland above 20 Years fince, heard a Dutchman relate (as he did believe the real Matter of Fact) that he had been under the Pole itself; and that it was as warm here as it was at Amsterdam in Summer time.

The fifth, was a Relation of one Captain hat his foulden who had made above thirty Voyages to Freenland, and this he did relate to his Majesty: hat being at Greenland some twenty Years ago, ewas in Company with two Hollanders to the astward of Edges Island, and that the Whales

stappearing on the Shore; the two Hollanders lieved are refolv'd to go farther Northerly, and to which hamong the Ice; so they departed from him Society, and went to the Northward, and in a Fortnight's pia had me return'd to him again, and gave it out, Nova at they had fail'd into the Lat. of 80, that be no as within one Degree of the Pole, and that

Tarta ey did meet with no Ice, but a free and open a free a and that there ran a very hollow grown Sea like that of the Bay of Biscay. Mr. Goulden being not fatisfy'd with the bare Relation, they produc'd him four Journals out of the two Ships which testify'd the same, and that they all agreed within 4 min. one of the other.

The lixth Inducement that made me believe there was a Passage, was a Relation from the fame Captain Goulden, which was, That all the Drift-Wood that they found at Greenland, was caten with a Sea-Worm to the very Heart, which if so, it must of Necessity come out of a ho Climate; for Experience sheweth, that the Worm biteth in no cold Country, therefore it could not be suppos'd that it came from any other Country than Jadzo, Japan, or some Land thereabout.

The seventh Argument was another Narration when he is printed in the Transactions of two Ships, of late dian, and in that had attempted the Passage, sail'd 30 Horizon; of Leagues to the Eastward of Nova Zembla, an east either had after prosecuted the Voyage, had there me ath a Decl a Difference arose betwixt the Undertakers an he Atmosph the East-India Company, against whose Interest it hath to it was to suffer it to be found out; so they be ave no Inte ing a Body, and more powerful than the other our this O suppress'd it.

These seven were the main Arguments, the lorth they had many more, that converted me into the Op tey meet we nion of there being a Possibility of a Passage an they do the Northward of Nova Zembla, to China more Dee Japan; these being, as I suppos'd, or as any M. The secon would have done, if he had well consider'd the hich was for

to be Matter of Fact, and no Fables.

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to hinder The first in the Sun der the than with Pole itself. high, and rizon, but Height, mi sphere with ter, when I Freenland Ti

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of a North-East Passage.

Besides these Arguments, I had some grounded inon Reason and Nature, which seem'd to be affifiant in the Design of the Attempt, supposing the aforesaid Arguments to be true, and there being no Land nor Ice in the way as an Obstacle to hinder it.

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The first was, That being near the North-Pole in the Summer time, it might be as warm as under the Artick or Antartick Circle, or warmer than with us in the Winter time; for under the Pole itself, in June, the Sun being 23 Degrees high, and having no Depression towards the Ho= fizon, but always swimming about at the same Height, might illuminate that Part of the Hemi= sphere with more Heat than it does ours in Win-

other Land tet, when he is no more than 15 Degrees high. arration when he is at the highest, that is on the Meriof law lian, and not more than eight Hours above the d 30 Horizon; or that it might be as hot as any Place la, an hear either Polar Circle, because there the Sun nere no ath a Declination towards the Horizon; and fo cers an he Atmosphere hath almost as much time to cool, Interest it hath to heat, which, under the Pole, should hey be are no Intermission. And one Argument to fae other our this Opinion, was the Relation of most

breenland Traders, who affirm, That the farther s, the forth they go on the Coast of that Land, the open ey meet with more green Herbs and Grass, affage an they do to the Southward, and consequentbina a more Deer.

any M The second was (that which I most fear d) r'd the lich was foggy Weather, which I did imagine, it should happen, it could not at the same Belid

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time blow hard; because it is usual in all other Climates, when Wind happeneth, to disperse the Fog; fo that if it should so happen, one might lie by, or make little way till Wind came, that

one might see before them.

The third was the Solution of a Doubt, that most Men had fancy'd, which was, That if one came near the Pole, the Septentrial Declination of the Needle of the Compass should be quite taken away, which would of necessity follow, if the Pole of the World, and the Pole of the Magnet were all one, which, I am certain, is not, but is plac'd so far off, that one might go under the Pole of the World, if Land or Ice did not hinder; with this Supposition, that one must know where the Pole Magnetical is, to allow the Variation that will there happen.

Having confider'd all these Arguments and Reasons, with many more I met with, which will be too tedious to relate, and the Possibility of a Passage being now imprinted in my Mind and Inclination, I do intend to shew the Reasons. in short, that induc'd me to undertake the said

Voyage.

The first was, That the King, whom God preferve, should reap the Honour and Glory there

of, and his Subjects the Profit.

Secondly, There being no Actions within the Hemisphere of his Majesty's Dominions wherein any Vacancy was, but all being supply'd, I chose Draught, w rather than to be idle, to apply myself to H Majesty for the Prosecution of the Design; and being advis'd to it by a great many of the be

Merchan divers C fons and bated, it by more Particula rable Vol

The th wlien kno kind; wh past fram' iwo Magr and by th writ of th and costly of the Su having for thereby the under the Longitudes be found Affiftance o ing so full come fo ne pted my In

So, havin Paffage, an advanc'd. hat had atte

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ented to his pply'd myf of a North-East-Passage.

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Merchants of the City of London; where, after divers Consultations with them, and the Reafons and Arguments before-mention'd being debated, it was by many thought Practicable, and by more thought Profitable to the Nation: The Particulars to relate, would swell into a considerable Volume.

The third Reason was peculiar to myself, tho' when known, to the Use and Benefit of all Mankind; which was, That having for some Years palt fram'd an Hypothelis of the Motion of the iwo Magnetical Poles, for two fuch there be; and by the Observations of all, or most that writ of that Subject, with my own Observation, and costly Experiment upon a great many Places of the Superficies of the Terrestrial Globe; I having found out their Motion very near, and thereby the Inclination of the Magnetical Needle under the Horizon, in all Latitudes, and all Longitudes; and Variation of the Compass may be found in any Place in the World, without Affistance of any other Luminary. But not being so fully fatisfy'd as I might be, if I could come so near the Pole as was supposed, it prompted my Inclination, as far as any other Argument whatever, to attempt this Voyage.

So, having all these Reasons that there was a hinthe paffage, and Reasons for me to undertake it, I vhereit advanc'd. The first Step to it was, I drew a Polar chose Draught, wherein I trac'd all those Navigators to Highat had attempted the North-east, which I preis and ented to his Majesty, and Royal Highness, and pply'd myself to them with the Reasons afore-

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faid; which, after their Royal Consideration, and Consult with many Merchants and Seamen that had used to sail Northward, and if thought by all feazible, His Majesty was graciously pleas'd to grant me the Speedwel Fregat, to be manned and victualled at his Royal Charge, with all other Appurtenances thereunto belonging.

But because in all Attempts of this Nature it was not convenient to venture one Ship alone, for the many Accidents that are incident to a single Ship in an Enterprize of this Nature;

Therefore, his Royal Highness the Duke of York.

The Honourable John Lord Barklet.

Sir Joseph Williamson.

Sir John Bankes.

Mr. Samuel Peeps.

Captain Herbert.

Mr. Dupey.

Mr. Hoopgood.

These Eight Honourable Persons, at their own proper Charge, bought a Pink, call'd the Profession, of the Burden of a hundred and twenty Tuns, sitted her to Sea, Men, Ammunition, Provision, and Merchandize, which was such as was reasonably propos'd to vend on the Coast of Tartaria, or at Japan, if a Possage had been found.

Now the Ships being fitted out, the Speedur at Deptford in the King's Yard, where the Builder

Mr. John ning her well perfe the Sea. People of would ac

The fir on the Comate, we now is grand wear Clo Moscovia, must need could contain the could coul

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stroy us.

Mr. John Sift, took no ordinary Care in Strengthning her, and in her Sheathing, which was as well perform'd as in any Ship that ever fail'd on the Sea. Thus being fitted, I was to fatisfie most People of the Advantage to our Nation, that would accrue if there was a Passage.

The first Advantage that I purpos'd, was, that on the Coast of Tartaria, it being a cold Climate, we might vend our English Cloth, which now is grown a Drug; and certain it is, that they wear Cloth which is fent them from Russia and Moscovia, which, before it arrive at their Hands, must needs be very dear in the Prize; so if one could come on their Coast, one might vend a

great deal more, and abundance cheaper.

The second Advantage, as would have been, that in fix Weeks one might have fail'd to Japan, which in the other Way is nine Months; and the Passage that Way being as hazardous and perillous as this would have been, if there had been any Passage by the North-East; for by the South way, all the way betwixt Bantam and Faparare an innumerable Company of Sands, Shoals, and Islands, where many Ships are yearly lost, and all that way one must turn up to the Windward, be in perpetual Fear of the Hollanders, whom if we meet, they do their utmost Endeavours to destroy us.

Then if there had been a North-East Passage, and that one might fail in fuch a short time to Japan, the King might fend out Men of War to peedure Japan, and force them to trade; which the other Way is not to be done, because they cannot carry

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Provision for so long time; besides the certain Diseases that are incident to Ships, that have many Men in hot Weather, renders it impracticable: These and many other Reasons I used, which would be too tedious to relate, they being as yet fresh in the Memory of most I told them to.

Now, after all these Arguments and Reasons, the Time of the Year growing on for us to be gone, we made our Ships ready for the Sea, being as well fitted for a Discovery as ever any Ships were; having on board each Ship sixteen Months Provision of all forts, with Sixty eight Men and Boys in the Speedwel, and eighteen Men in the Prosperous.

Journal, well, bound East-Ii

Japan.

Sunday, from the Pader, being At Eight 1-2 North N. E. and Monday, W. S. W. a Course per Course per Course protion this Day of Lat. 68 N

Naze Land the Margent.
Tuefday, A his Day Noo the S. E. t

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Journal, In His Majesty's Ship the Speedwell, Captain John Wood Commander, bound for the Discovery of a Passage to the East-Indies, by the North-East: Sailing about Nova Zembla, and Tartary, and Japan. 1676.

Sunday, May 28. the Wind at S. W. Sailed from the Buoy of the Nore, in Company of the Prosperous, Captain Flawes Commander, being bound upon the Discovery with us.

At Eight at Night the Naze Land bore West
1-2 North about six Leagues, we steered away

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Monday, May 29. The Wind at S. W. and W. S. W. a fresh Gale with Showers of Rain, Course per Compass between the N. E. and the N. distance sailed by the Log 73 Miles, true Course protracted since last Night Eight a Clock to this Day Noon, is North 28 d. East difference of Lat. 68 Miles, and departure East from the Naze Land 36 Miles; Lat. by Judgment, as in the Margent. Thick cloudy Weather.

Tuesday, May 30. From Yesterday Noon to is Day Noon, the Wind variable from S. W. othe S. E. thick cloudy Weather, and a fresh late. Course per Compass N. N. W. and N. W. y N. distance sailed by the Log 95 Miles, true ourse is N. 28 d. West, distance of Lat. 83

Miles,

A Voyage for the Discovery

Miles, departure West 45 Miles, Lat. per Judgment; Meridian distance West nine Miles.

Wednelday, May 31. From Yesterday Noon to this Day Noon, the Winds variable with Calme and Rains. Courses per Traverse; true Course protracted, with all Impediments allowed, is North 43 d. West 60 Miles, difference of Lat. 42 Miles, departure West 40 Miles, Lat. per Judgment 54 d. 13 m. Lat. by a good Observation tion at Noon 55 d. 30 m. at which time, the Land between New-Castle and Berwick bore W. about 8 or 9 Leagues: Meridian distance Cur. rent from the bearing of the Land, and the Lat, is 88 Miles, 50 Fathom Water; saw two Ships standing to the Southward, but would not show their Colours.

Thursday, June 1. From Yesterday Noon to this Day Noon, a fresh Gale from the W. by S. to the S. W. Course per Compass between the N. and the N. W. distance sailed by the Log 76 Miles, true Course protracted is N. 16 d. West Lat. by a good Observation 56 d. 41 m. depar-

ture West 21 Miles.

At nine in the Morning we gave Chafe to a Scotch Fisherman, and at Noon came up with her, and bought fome Fish of him; at Noona hard Gale steered away North, being about feven or eight Leagues from the Land, between Montros and Edenburgh: We steered along the Course N. by E. till eight a Clock.

Friday, June 2. From Yesterday Noon to this Day Noon, the Winds variable with fair Wether. Course per Compass N. distance sailed by

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At tw with Ra it blew a Mainfail.

Sature this Day way, and East 42 59 d. 23 Land is called Fo

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Sunday, with Caln sprung up we ply to Sound, ar right agail the Remai of War w the Hollan other Nat

keep it. Saturday a Clock, at of a North-East Passage.

the Log 1'17 Miles, but by a good Observation 120 Miles, Lat. 58 d. 41 m. Winds from the W. S. W. to the S. W.

At two a Clock a great gust of Wind at N. W. with Rain; we hand our Top-sails, and at three it blew a Storm of Wind; we lay a Try under a Main-fail till ten a Clock, then sent our Forefail.

Saturday, June 3. From Yesterday Noon to this Day Noon, true Courfe protracted Leeward way, and all Impediments allowed, is North 1-2 East 42 Miles, Lat. by a good Observation is 59 d. 23 m. Meridian distance from the Naze Land is 100 Miles; at Noon saw a small Island. called Foril, lying to the South of Shetland, bearing W. N. W. about four Leagues; in the Afternoon little Wind.

Note, that we found the Ship more to the Westward than expected, being caused by a va-

riation of 6 or 7 d. E.

Sunday, June 4. This Forenoon little Wind, with Calms till about 12 at Noon, at which time forung up a Gale W. N. W. blowing very hard, we ply to Windward, and turned into Brace-Sound, and anchored in nine Fathom Water, right against the Town called Lerwick; here is the Remains of a Fort that was built in the time of War with Holland, but upon the Peace with the Hollanders it was demolished, for fear any other Nation might come and take it, and so to this keep it.

Saturday, June 10. Rid ftill till Saturday seven a Clock, at which time weighed, the Wind S. W.

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we took in a Pilot, and failed out through the North End of Brace Sound, having three Fathom Water over the shallowest Place.

Sunday, June 11. At four in the Morning Scan bore W. by N. about fix Leagues; a fresh Gale

at S. W. hasey Weather.

From four in the Morning till twelve at Night Course N. N. E. distance sailed by the Log 35 Miles: True Course allowed from the bearing of the Land is N. E. 41 Miles, difference of Lat. 30 Miles, Lat. by Judgment 61 d. 26 m. Meridian distance from Shetland 30 Miles East.

from Yesterday Noon to this Day Noon, a strong Gale at S. W. West S. W. West and W. N. W. Course per Compass N. N. E. distance sailed by the Log. 147 Miles, difference of Lat. 135 Miles, departure East 56 Mites, Lat. by Judgment 63 d. 42 m. Meridian distance, E. 86 Miles; thick cloudy Weather, at Noon little Wind.

Tuesday, June 13. From Yesterday Noon to this Day little Wind, and variable, with Calms from the N. W. to N. N. E. we ply to Windward. True Course proteacted, all Impediments allowed, is N. N. E. 23 Miles, difference of Lat. 21 Miles North, departure East 8 Miles, Lat. by Judgment 64 d. 03 m. Meridian distance 94 Miles, Lat. by a good Observation 64 d. 03 m.

Wednesday, June 14. From the 13th at Noon to this Day Noon the Winds variable, with fresh Gales, Rains, and little Winds. Course per Traverse between the N.E. and the N. distance sailed by the Log 92 Miles, true Course protracted, all

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Thursday, June 15. From the 14th at Noon to this Day Noon the Winds variable, with Calms from the W. to the S. W. Course per Compass N. N. E. distance sailed by the Log 67 Miles; true Course protracted, with allowance, is N. 22 1-2 d. E. difference of Lat. 62 Miles, departure East 26 Miles, Lat. per Judgment 66 d. 26 m. Meridian distance 150 Miles East. At Noon broke our Main Topfail-Yard, being rotten in the Slings; thick hasey Weather.

Friday, June 16. From the 15th at Noon to this Day Noon, a fresh Gale at W. N. W. and W. S. W. with Rains and thick Weather. Course ter Compass N. N.E. and N.E. by N. disance sailed per Log 126 Miles; true Course protracted, is North 30 d. East, difference of Lat. 108 Miles, departure East 63 Miles, Lat. per Judgment 68 d. 14 m. Meridian distance 123 Miles.

Saturday, June 17. From the 16th at Noon to this Day Noon, a fresh Gale at W. N. W. and W. with Rain and cloudy Weather. Course per Compass N. E. distance sailed by the Log 127 Miles, difference of Lat. 90 Miles, departure East 90 Miles, Lat. per Judgment 69 d. 48 m. Meridian distance 303 Miles, but by a good Observation at Noon Lat. 69 d. 53 m. difference of Lat. between the Dead Beckoning and Obfailed kryation, is 9 Miles; which imputed to a Weted, all sterly variation, which is found by an Azimuth 7 d.

7 d. Meridian distance corrected, is 300 Miles; fair Weather.

Sunday, June 18. From the 17th at Noon to this Day Noon, the Wind from W. N. W. to the W.S. W. fair Weather. Course per Compass N. E. by E. distance sailed by the Log 83 Miles; true Course protracted, and Variation allowed, is East 33 d. North, difference of Lat. 47 Miles, by good Observation, departure 66 Miles, Lat. by a good Observation 70 d. 30 m. Meridian distance 367 Miles East. Yesterday

and this Day we faw many Whales.

Monday, June 19. From the 18th at Noon to this Day Noon, a fresh Gale at W. by S. thick hasey Weather with Rains; at seven a Clock in the Forenoon faw many Sea Fowls, more than at any time yet, with many Jubartesses; at ten a Clock faw the Land, being the Islands that lie about 20 Leagues to the Westward of the North Cape; true Course allowed for Variation is N. N.E. distance sailed by the Log 135 Miles, difference of Lat. 50 Miles, departure East 30 Miles, Lat. per Judgment 71 d. 20 m. Meridian distance 497 Miles. At Noon the Island Sanden bore S. by E. about 8 or 9 Leagues off this Island is a high craggy Land, with some Snow on the Land.

Tuesday, June 20. From the 19th at Noonto this Day Noon, Course per Compass between the E. N. E. and the N. E. distance sailed by the Log 128 Miles, true Course allowed for 10, but fou the Variation, is North 43 d. East difference filled along of Lat. 91 Miles, departure 88 Miles East, Lat Last 14 d.

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per Judgment 72 d. 51 m. Meridian distance 585 Miles. From Yesterday Noon to this Day Noon. the first 12 Hours a fresh Gale at S. W. but the last 12 Hours much Wind, with small Rains and

great Fogs; saw many Sea Fowls.

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Wednesday, June 21. From the 20th to the 21st at Noon, a stiff Gale with Gusts, and small Rains. Course per Compass N. E. distance sail'd per Log 35 Miles, true Course allowed by Variation, is N. 40 d. East difference of Lat. 102 Miles, departure East 86 Miles, Lat. per Judgment 74 d. 34 m. Meridian distance 671 Miles; thick cloudy Weather, faw many Sea Fowls.

Thursday, June 22. From the 21st to the 22d at Noon, Course per Compass N. E. distance failed per Log 116 Miles, true Course allowed by Variation, and Leeward way, is North 43 d. East difference of Lat. 85 Miles, departure East 79 Miles, Lat. per Judgment 75 d. 59 m. Meridian distance 750 Miles East; the Wind at N.W. a fresh Gale, Weather variable, sometimes cloudy, and fometimes fair, but very cold-

At Noon we saw Ice right a Head about a League off, we failed close to it, and found it to lie away E. S. E. and W. N. W. we bore away E. S. E. along the Ice: In the Afternoon wehad fome fmall Snow, and very cold Weather.

bonto Friday, June 23. From Yesterday Noon to his Day Noon we steered along the Ice, finding tween ed by to have many Openings, which we failed ined for to, but found them to be Bays; our true Course erence filled along the Ice, the Variation allowed, was Last 14 d. South 77 m. Lat. per Judgment 75 d. per

41 m.

1 m. difference of Lat. 19. m. departure 74 Miles. Meridian distance 824 Miles, Wind N. N. W.

At Noon we founded, and had 158 Fathom foft green Oar; and found the Current to fet S. S. E. we have found very smooth to Leeward of this Ice, and in some Places found Pieces of the Ice driving off a Mile, sometimes more or less from the main Body of the Ice, finding it to be in several strange Shapes, resembling Trees, Beasts, Fishes, Fowls, Oc. The main Body of the Ice being low, but very craggy, being many Pieces lying close together, and some a top of each other; and in some Places we saw high Hillocks of blue Colour; but all the rest of the Ice very white, as though it were Snow. In fome Places we faw drift Wood amongst the Ice. we took up some of the Ice, and melted it, and the Water very fresh and good: This Day we found very cold and freezing.

Saturday, June 24. From Yesterday Noon to this Day Noon, little Wind at N. by W. we steered close along the Ice, failing into every Opening, but could not find any Passage through, thre East 58 neither could we see over the see in any Place East 7 d. No from our Topmast-Head; true Course protrast-Meridian dist ed, as we failed along the Ice, is East 34d. At Noon South difference of Lat. 24 Miles S. departure aw somethin East 34 Miles, Lat. per Judgment 75 d. 18 m. Pea-Horses, obut by a good Observation at Noon, the Lat. pur Boat to s 74 d. 50 m. the difference between the Dead ponthe Ice Lat. and the observed Lat. is 28 Miles, which fould not kill difference hath been caused by the Current set-tere much w

ting S. S. E.

At No Water, a This last 2. having for

an Hour a Sunday, this Day 1 the most pa in the Ice, protracted 13 Miles pr Judgme

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At Noon we founded, and had 128 Fathom Water, and the Current as Yesterday S. S. E. This last 24 Hours fair Weather, with little Winds, having some small Fogs, but lasted not above half an Hour at a time. Meridian distance 858 Miles.

Sunday, June 25. From the 24th at Noon to this Day Noon, little Wind, with Calms, and the most part foggy, so that we durst not venture in the Ice, but lay by, and stood off; true Course protracted is East 30 d. South difference of Lat. 13 Miles, South departure East 19 Miles, Lat. pr Judgment 74 d. 37 m. Meridian distance 877 Miles, East Wind variable from the N. W. to the W. S. W.

At One in the Afternoon the Fog broke up; hard freezing Weather, our Rigging and Sails frozen; for as fast as the Fog fell it freezed.

Monday, June 26. From the 25th at Neon to this Day Noon, little Wind from the N. W. to N. Course per Compass between the W. S. W. and the N.E. distance sailed by the Log 63. Miles, difference of Lat. 7 Miles North, deparure East 58 Miles; true Course protracted is Place East 7 d. North Lat. per Judgment is 74 d. 40 m. Meridian distance 935 Miles.

traft-At Noon we stood in close with the Ice, and 34 d. rture w something to move, we judging it might be 8 m. Sea-Horses, or Morses, lying on the Ice, we sent

our Boat to see, and they found two Sea-Horses Lat. Dead ponthe Ice; they fired feveral Shot at them, but which would not kill them: Notwithstanding that they t set-tere much wounded, they got into the Water,

nd so went under the Ice. We have found the Ice M

Ice to lie away East, these 24 Hours the Wind at North, and very cold, and at 12 at Night 70 Fathom green Oar; at nine in the Evening saw Land, the North Part of it bearing E. and the South Part S. E. being high, and covered with Snow, about 15 Leagues off. Sounded, and had 125 Fathom.

Tuesday, June 27. From Monday 26 to Tues. 27. little Wind from the N. W. to the N. by E. with Calms; we kept close with the Ice, and found it joyn to the Land of Nova Zembla: true Course protracted is E. by N. 30 Miles difference of Lat. 16 Miles, departure E. 29 Miles, Lat. per Judgment 74 d. 46 m. Meridian distance 964 Miles, at Noon 83 Fathom Water, about 6 Leagues from the Shore; we rowed in towards the Shore, and found the Ice to lie about 5 Leagues from the Shore; we went out of our Boat on the Ice, and killed a young Sca-Horfe or Mors, and faw many more, but could not kill them with Muskets, notwithstanding we fired 7 Muskets into one of them, neither could we come to lame them; for they get into the Sea before you can come to them; they keep ing Watch, and are very fly, always lying on the brink of the Ice, ready to take the Sea. We founded, and had 80 Fathom Water green Oar at which time we faw the Ground plain, being ver fmooth Water. Meridian distance from the Ship to the Land 15 Miles, which maketh Meridiand stance from the Land to this Place 980 Miles

Wednesday, June 28. From the 27th at Noo to this Day Noon, very little Wind, but the mo

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Part calm from the N. to the W. true Course protracted W. N. W. 10 Miles, Lat. per Judgment 74 d. 46 m. Meridian distance 970 Miles. In the Afternoon stood in close with the Ice, and found it to joyn to the main Land; at Night stood off from the Ice.

Thursday, June 29. From the 28th at Noon to this Day Noon, little Wind, with Rains; we flood away from the Ice to fee; true Course allowed is South 27 d. West 20 Miles, difference of Lat. 16 Miles, departure 8 Miles, Lat. per Judgment 74 d. 40 m. Meridian distance 964 Miles. At Noon the Wind at West, and W, and by S. a fine Gale, but very foggy Weather; we find away South to get from the Ice, we being invayed in it. At 11 at Night the Prosperous Pink fired a Gun, and bore down upon us, crying out, Ite on the Weather-Bow, with that we clap'd the Helm hard a Weather, veered out the Main-Sheet to ware the Ship; but before the Ship could ware, and bring to upon the other Tack, hestruck on a Ledge of Rocks which lay sunk.

g we could ware, and bring to upon the other Tack, to the firuck on a Ledge of Rocks which lay funk. From 12 at Noon to 11 a Night thick foggy keep weather, the Wind from the N. W. to the W. on the by S. Course per Compass between the S. W. and we he S. by W. close haul'd; but at Night the Proposor Pink saw the Sea break on the Weather-by low, bearing down upon us, cryed out it was he Ship he Ice; with that we presently bore up round be bring to upon the other Tack, but our Ship of wearing round, run on a Ledge of Rocks, here stuck fast; but Captain Flawer Ship got lear, wearing more rounder; we fired several

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Guns, to give Captain Flawer notice of our Diftress; we used all means possible to get her off by carrying out a Haffer and Anchor, and staying of Water and Beer, and throwing Provision overboard, but could not get the Ship off, for the Water did Ebb, and the Ship fued above 3 Foot; but when the Flood came, it brought a great Sea with it, and the Ship beat very hard; we used all means to heave her off, but could not, and the Ship making Water more than we could pump; with that we cut our Masts by the Board, and fent our Yaul unto the Shore to discover fome Place to Land, at whose Return aboard. brought word that there was landing; with that we got up Bread out of the Bread-Room, and brought it up into the great Cabbin; and the Carpenter made ready to fave fome Tools, and Necessaries to rebuild our Long-Boat to fave our Lives, if so necessitated, that Captain Fluxues should not return to us. So about 12 at Noon we got all our Men ashore, except two which were drowned in the Pinnace, by a Sea which broke into her, just as she put off from the Ship Side; having Bread, Powder, and Provisions in her, and all lost with the Pinnace. Alfo. to our great Grief, having nothing but the Long-Poat, to trust in, to fave our Lives, which could not carry above 30 Men of 70. We used all means to fave Bread, but the Ship filling up to the upper Deck, we were forced to leave her, having fived but two Bags of Bread, with some Pieces of Pork, and a little Cheefe; this being all on Shore, we carried our Provisions, and other No. ceffaries

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cessaries, upon a Hill, where came to visit us one of the Natives, which was a prodigious great white Bear, which one of our Men shot at, and as we supposed hither, which made her run away; with that we made all haste to build us a Tent to keep us from the Cold, and to keep our Provisious dry, having saved Canvas for the purpose, which we laid over Oars and Spars, and threw up a Trench of Earth round us, to preserve us from wild Feasts; but all this time endured much Cold, most of our Men being wet, and having no Firing; therefore all our Hopes and Prayers were, that God would send us the Ship ashore.

Friday, June 30. A fresh Gale, and very foggy, with a great Sea; our Ship began to split, and much Wreck came ashore; so that we got Oars, Spars and Deals, to build us Tents, and Firing, of which we saved as much as we could; but the Weather proved very foggy to our great Grief, being we could not expect Capt. Flaves as long as the Fog continued. The Wind at W. N. W.

Saturday, July 1. The Wind at N. W. a fresh Gale, the Ship brake in pieces; so that we had much Wreck came ashore, and Provisions, which we endeavoured to save with much Pains and Trouble, the Sea breaking much on the Shore, and the Weather very cold and foggy. We saved two Casks of Flour, some Brandy, and a Butt of Beer, and a Cask of Oil; the Flour did us great kindness to save our Bread, for we made of the Flour, Pancakes, and Pudding, and baked Cakes on Stones, to our great Refreshment.

Sunday, July 2. The Wind at West, and very soggy; we saved more Flour, Butter, and a

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look'd delicate, and eat well. Saturday, July 8. The Wind at W. N. W. a very great Fog, and all our Men in, great Despair of seeing Captain Flawer; we beginning to consider our most miserable Condition, and contriving how to fave our Lives, the Longbeat not being able to carry above 30 Men, and a Deck built on her, and her Wast raised; with that we concluded to lengthen her 12 Foot, and to carry all our Men; but upon confideration of w nting Materials, and the Carpenters bad Alfiftance, the Men would not agree to have her cut afunder, for fear the could not be lengthened, but were willing to travel by Land towards the Waygates, in hopes to find fome Ruffia Lodges With that we began to raife her Wast, and build a Deck, the Weather continuing very foggy till Saturday Morning, at which time we cloyed Captain Flawer, to our great Joy; with that we made prefently a great Fire, and fent our Yau to meet him, who immediately faw our Fire, and steered into us, and sent his Boat to help to bring off our Men; with that we broke up our new Work, which was done to our Long-boat, and lanched her; and about Noon got all on Board Captain Flawer, in good Health.

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Monday this Day I s. W. by I N. N. E. cold Weat J Miles, ridian dift. Westward.

Tuesday, this Day N. E. to the S. distance Course allowed Miles, Lat.

Journal on Board the Prosperous, Captain William Flawes Commander, from Nova Zembla to England. 1676.

Unday, July 9. From the 8th 12 at Night to this 9th 12 at Noon, the Winds variable, with Fogs and small Rain; we stand off to the Westward; true Course protracted, with allowance for Variation, is West 8 d. South, difference of Lat. 8 Miles, departure 67 Miles, Lat. for Judgment 73 d. 42 m. Meridian distance, from Point Staten, being the Westermost Land off of Nova Zembla, and the last Land we saw, 67 Miles; very cold Weather.

Monday, July 10. From the 9th at Noon to this Day Noon, the Winds variable from the S.W. by W. to the W. and so to the N. and N. N. E. with small Rain, great Fogs, and very cold Weather; true Course protracted is West 35 Miles, Variation allowed 12 d. West; Meridian distance 102 Miles; a great Sea from the Westward.

Tuesday, July 11. From the 10th at Noon to this Day Noon, the Winds variable from the N. N. E. to the N. W. Course per Compass W. by S. distance failed by the Log 102 Miles; true Course allowed for Variation, is West 68 3-4 South; distance of Lat. 34 Miles, departure 96 Miles, Lat. per Judgment 73 d. 06 m. Meridian M 4

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distance 198 Miles; thick cloudy Weather, and

very cold.

Wednesday, July 12. From the 11th at No n to this Day Noon, little Wind and variable, with Calms, small Rains, and Fogs; distance sail d by the Log 27 Miles, between the W. by M. and the W. by S. true Course allowed, with all Impediments, is West; at Noon Lat. by O statution 73 d. 34 m. which is 34 Miles more Northerly than expected; the Variation, I tuppose, came from the Lat. we departed from on N m Zembla; Meridian distance corrected is 222 Miles West; at Noon calm and fair Weather.

Thursday, July 13. From the 12th at Noon to this Day Noon, the Wind variable from the W. to the S.S. W. a fresh Gale; we ply to the Westwar I close haul'd. Course per Compass between the S.S. W. and the W. N. W. true Course protiacted, all Impediments allowed, is W. by N. 1-2 N. 69 Miles; difference of Lat. 17 Miles, departure 59 Miles; Lat. by Judgment 73 d. 51 m. Meridian distance 279 Miles: Cold cloudy

Weather, with finall Rains.

Friday, July 14. From the 13th at Noon to this Day Noon, the Winds variable from the S. S. W. to the W. N. W. a fresh Gale, and sometimes little Wind; we ply to the Westward, sometimes on one Tack, and sometimes on the other; true Course protracted, all Impediments allowed, is W. S. W. 1-2 S. difference of Lat. 9 Miles South, departure W. 20 Miles. Lat. 10 Judgment 73 d. 35 m. Meridian distance 299 Miles.

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Saturday, July 15. From the 14th at Noon to this Day Noon, the Winds fresh, with Gusts from the N. W. to the W. we ply to the Westward, sometimes to the Southward; distance stilled by the Log 70 Miles; true Course protracted is S. W. 33 d. 45 m. difference of Lat. 52 Miles, departure Wist 34 Miles, Lat. per Judgment 72 d. 43 m. Meridi in distance 333 Miles; cold and cloudy.

Sunday, July 16. From the 15th at Noon to this Day Noon, the Wind at W. S. W. and W.

Sunday, July 16. From the 15th at Noon to this Day Noon, the Wind at W. S. W. and W. Le S. a fresh Gale; but from 8 at Night till 8 in the Morning much Wind, we lip a try under a Manistrial; true Course protracted Leeward-way, and Variation allowed, is N. by W. 1-4 W. 31 Miles; difference of Lat. 30 Miles, departure W st. Miles, Lat. per Judgment 73 d. 13 m. Meridian distance 340 Miles; Rain, with very thick Weather.

Monday, July 17. From the 16th at Moon to this Day Moon, little Wind from the W. by M. to the W. with Rains, Fogs, and Culms; we ply to the Westward close upon a Wind; true Course protracted, all Impediments allowed, is W. by S. 3-4 W. distance of Lat. 3 Miles, departure 23 Miles, Lat. per Judgment 73 d. 10 m. Meridian distance 360 Miles; at 11 in the Foremon the Wind came up at S. S. E. and soggy.

Tuefday, July 18. From the 17th at Noon to this Day Noon, the Winds from the South to the Westward close halfd, between the W. and N. W. distance sailed by the Log 78 Miles; true Course protracted is W. by N. 1-4 N. 80 Miles, distance of Lat.

18 Miles,

18 Miles, departure 77 Miles, Lat. per Judg. ment 73 d. 28 m. Meridian distance 437 Miles,

thick foggy Weather.

Wednesday, July 19. From the 18th at Noon to this Day Noon, the Wind at S. W. and S. S. W. with very thick Fogs. Course per Compass W. N. W. and W. close haul'd; distance failed by the Log 74 Miles, true Courfe, Variation and Leeward-way allowed, is W. N. W. 1-2 N. 70 Miles, difference of Lat. 32 Miles, departure 60 Miles, Lat. per Judgment 74 d. Meridiandistance 4.97 Miles, at Night much Wind, we hand our Top-fails.

Thursday, July 20. From the 19th at Noon to this Day Noon, for the most part much Winds at W. S. W. and S. W. with great Fogs; we ply close upon a Wind N. W. by W. and West. north-west; distance sailed by the Log 65 Miles; true Courfe, Variation and Lee-way allowed is North-north-west 3-4 West, distance of Latitude 55 Miles, departure 33 Miles, Latitude per Judgment 74 d. 55 m. Meridian distance

530 Miles.

Friday, July 20. From the 20th at Noon to this Day Noon, the Wind from the South-west to the West. Course per Compass South by West upon one Tack, and West-north-west on the of ther, close haul'd; distance failed by the Log 61 At Noon, 1 Miles; true Course protracted, all Impediments Monday, allowed, is South by West 3-4 West 48 Miles, this day No distance of Lat. 45 Miles, departure 16 Miles, Calms; tru Lat. per Judgment 74 d. 12 m. very thick, foggy 22 Miles, 1 and cold, till about Noon it cleared up.

Saturday

Saturd this day by W. ar by N. and was very locks aric which ma Cherry-Iff: thom, a 1 flood off Noon, at Fathom; 74 d. 26 which tim West fron ridian Dist Zembla, a Lat. at No

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Saturday, July 22. From the 21st at Noon to this day 4 in the Morning, the Wind at S. W. by W. and S. W. with thick Fogs. Course W. by N. and N. N. W. 46 Miles, at which time it was very foggy Weather; we faw many Willocks and other Sea-Fowles more than usual, which made us think we were near the Land of Cherry-Island; we cast the Lead, and had 60 Fathom, a rough Sand; with that, we tack'd and flood off S. S. E. and S. E. by E. 9 Miles, till Noon, at which time we founded, and had 78 Eathom; Lat. at 4 in the Morning, by Judgment 14 d. 26 m. Meridian Distance 589 Miles, at which time I was, by my Reckoning, 13 Leagues West from Cherry-Island, according to the Mcridian Diftance I made from the Cape to Nova Zenbla, and from Nova Zembla back here; Lat. at Noon, by Judgment, 74 d. 20 m. Meri-

Sunday, July 23. From the 22d at Noon to this day Noon, the Winds variable, with great Fogs, from the S. S. E. to the W. N. W. Course for Compass between the S. W. and W. Distance failed by the Log 91 Miles; true Course protraand is S. W. by S. 87 Miles Difference of Lat. 76 Miles, Departure 43 Miles, Lat. per Judgment 73d. 08.m. Meridian Distance 625 Miles; Log 61 At Noon, no Ground with 160 Fathorn Lines.

dian Distance 582 Miles.

imens Monday, July 24. From the 23d at Noon to Miles, this day Noon, little Winds and variable, with Miles Calms; true Course allow'd, is S. S. W. 3-4 W. foggy 22 Miles, Distance of Lat. 18 Miles, Departure

11 Miles.

11 Miles, Lat. per Judgment 72. d. 50 m. Meri.

dian Distance 636 Miles.

Tuesday, July 25. From the 24th at Noon to this day Noon, the Wind variable, with nesh Gales from N. by W. to E. with Fogs. Course between the W. S. W. and S. W.; Distance sail'd by the Log 88 Miles, true Course allow'd for 9 d. Variation is S. W. 1-2 Westerly, Distance of Lat. 54 Miles, Departure 69 Miles, Lat. per Judgment 71 d. 56 m. Meridian Distance 705 Miles.

Wednesday, July 26. From the 25th at Noon to this day Noon, the Wind variable from the E. by N. to the S. with thick Fogs. Distance fail'd by the Log 73 Miles; Course per Compass between the S. W. by W. and W. N. W: True Course protracted is W. 1-2 S. distance of Lat. 7 Miles, Departure 67 Miles.

Thursday, July 27. From the 26th at Noon to this day Noon, the Winds from the S. to the S. W. with great Fogs. Distance sail'd by the Log 68 Miles; true Course allow d W. 1-2 S. Disserence of Lat. 7 Miles, Departure 6:

Miles W.

Friday, July 28. From the 27th at Noon to this day Noon, the Wind from the S. S. W. to the S. E. Course per Compass between the W. by N. and the S. W. close upon a Wind; Distance sail'd by the Log 85 Miles; true Course protracted is S. W. by the W. 1-4 80 Miles, Distance of Lat. 46 Miles S. Departure 64 Miles W. Thick Fogs with small Rain.

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Tuefday, this day N. W. to the S. So Miles, protracted, Distance W. Departure with some

Wednejde this day N of a North-Eust Passage.

Saturday, July 29. From the 28th at Noon to this day Noon, much Wind from the S. to the (W. We tried under a Main-Sail three Watches. True Course allow'd is W. 15 Miles.

Sunday, July 30. From the 29th at Noon to this day Noon, the Wind variable from S. E. to the S. and so to the N. W. with sudden Gusts. with much Rain, then little Wind; at 8 this Morning much Wind at N.W. true Course promated, all Impediments allow'd, is S. S. W. 66 Miles, Distance of Lat. 60 Miles, Departure 25

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Monday, July 31. From the 30th at Noon to this day Noon, much Wind at N.W. with Rain. Course per Compass S. W. by S. and S. W. Di-

fance fail'd by the Log 104 Miles; true Course allow'd for Leeward-way and Variation S. by W. 1-2 W. Difference of Lat. 103 Miles, De-

parture 11 Miles; Lat. per dead Reckoning 68 d.  $\int_{\Omega} m$  but by Observation 68 d. 00 m. Depar-

mre accordingly corrected 15 Miles; Meridian

Distance 953 Miles.

Tuesday, August 1. From the 31st at Noon to this day Noon, the Wind variable from the N.

W. to the S.W. by W. Distance sail'd by the Log W. to 80 Miles, we ply to Windward; true Courfe the Maprotracted, Variation and Leeward-way allow'd,

1; De Distance W. S. W. Difference of Lat. 72 Miles, Count Departure 51 Miles; thick cloudy Weather,

es, Di with fome finall Rains and Fogs.

4 Miles Wednesday, Aug. 2. From the 1st at Noon to this day Noon, from the S. by W. to the S. W. thick

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thick Fogs. Course per Compass between the W. by S. and the W. N. W. Distance sail'd by the Log 51 Miles; true Course allow'd is W. by N. Disterence of Lat. 12 Miles, Departure 49 Miles, Lat. per Judgment 67 d. 50 m. but by a good Observation Lat. 67 d. 55 m. at Noon clear Weather.

Thursday, Aug. 3. From the 2d at Noon to this day Noon, the Wind from the W. to the S. S. W. with Fogs and Rain. Course per Traverse, we ply to the Windward; true Course protracted, is S. S. W. Distance of Lat. 21 Miles, Departure 10 Miles. At Night, much Wind at S. we lay under a main Sail.

Friday, Aug. 4. From 8 at Night to this day Noon, a Storm of Wind at S. and S. S. W. true Course Drift, and all Impediments allow'd, is N. W. by N. 1-4 W. Difference of Lat. 18 Miles, Departure 16 Miles. At Noon, less Wind,

we fet our Fore Sail.

Saturday, Aug. 5. From the 4th at Noon to this day Noon, the Wind from the W. by S. to the N. W. a very cold Storm; true Course allow'd is S. by E. Difference of Lat. 75 Miles, Departure 15 Miles. In the Afternoon little Wind.

Sunday, Aug. 6. From the 5th at Noon to this day Noon, fresh Gales, and little Wind from the W. N. W. to the W. S. W. true Course allow'd S. 2-4 E. Distance of Lat. 67 Miles, Departure 8 Miles.

Monda his day N rmes mu courfe al N. 53 Mil rature W about to t blew a Sto Tuesday this day N run away th Compa 116 Miles Lat. 107 M Wednesd fresh Gale, Fowls, and being high ing the Itle Observation stermost Isla Distance

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Monday, Ang. 7. From the 6th at Noon to his day Noon, the Wind at S. and S. W. fometimes much Wind, and then calm again; true tourse allow'd per Judgment, is W. N. W. 1-4 N.53 Miles; Difference of Lat. 22 Miles, Departure W. 47 Miles; at Noon the Wind came about to the W. N. W. much Wind, and at 8 it blew a Storm at N. W.

Tuesday Aug. 8. From yesterday at Night to hisday Noon, a Storm of Wind at N. W. we may with our Fore-Sail Reest. Course procompass S. S. W. Distance sail'd by the Log miles; true Course allow'd is S. Distance of

Lat. 107 Miles, Departure W. 5 Miles.

Wednesday, Aug. 9. At 3 in the Morning a stell Gale, saw many Willocks and other Sea-Fowls, and at 5 saw the Land E. S. E. from us, being high Land, and making like Islands, being the Isles of Fero. At Noon, Lat. by a good Observation 61 d. 45 m. at which time the Westermost Island bore E. about 8 Leagues off.

Distance sais'd from Yesterday Noon to this day Noon 120 Miles; true Course allow'd S. by W.1-4 Westerly, Distance of Lat. 116 Miles, Departure 26 Miles; Latitude per Judgment 62 d. 4 m. Distance between the dead Latitude and the observed Lat. 20 Miles; so that the Ship is 20 Miles more Southerly, and consequenly more Westerly; Meridian Distance 1120 Miles, but by Correction 1136 Miles; We saw a small Vessel, and gave chase to her, but she made from us.

Thursday,

Thursday, Aug. 10. From the 9th at Noon to this day Noon, a fresh Gale at North-west, Course between the South and East-south-east to get clear of the Islands in the Night; Distance sailed by the Log 102 Miles; true Course protracted is South-east by East 1-4 South, Distance of Lat. 58 Miles, Departure 76 Miles. Spoke with the Ship we faw yellerday, being a Lyn-man come from the Island.

Friday, August 11. From the 10th at Noon to this day Noon, the Wind at North-northwest. Course per Compass South-east by East. Distance sail'd by the Log 83 Miles: At Noon the Island Foule bore North-east by East about Three Leagues off: The Wind came about at

South.

Saturday, August 12. From the 11th at Noon to this Day Noon, the Wind variable, with great Gusts and Rain: At Noon, the Ockney Islands bore West about 4 Leagues; the Ockney Isles are low, such as we saw at the same time Dutch; at 6 we faw Fair Ise, being high Land, and about 6 Leagues off: We found the Tide of Flood with Castle to set in very strong between the Ockney and South. Fair Isles.

At 3 at Night came a sudden strong Gull and put us under a main Sail Reeft, at who time Catnose bore by Judgment about eight Leagues off, West by South; we try'd awar South-east, the Wind at West-South-west, great Storm.

Clock to Storm of West-nor Sail Reefi South-eaf 58 d. 16 East; fau Night less

> Monday to this day Compass S 56 d. 38 m

Tuesday,

Sunda

to this day north-west. stance sail'd ther; at N food in fo Busses unde bout two

Wednesday outh to the outh Castle eply to the Thursday, this day

At N ourfes, and of a North-East Passage:

Sunday, August 13. From last Night eight a Clock to this day four in the Afternoon, a great Storm of Wind from the West by South to the West-north-west; we tryed away under a main Sail Reeft, making her way good by Judgment South-east 37 Miles. Latitude per Judgment (8 d. 16 m, Departure from Catnose 47 Miles East; saw many Pitterals about the Ship: At Night less Wind.

Monday, August 14. From the 13th at Noon to this day Noon, a fresh Gale. Course per Compass South; Lat. by a good Observation

16 d. 38 m. fair Weather.

Tuesday, August 15 From the 14th at Noon whis day Noon, little Wind from the Westnorth-west. Course per Compass South; Di-Noon fance sail'd by the Log 53 Miles; fair Wea-

with ther; at Noon the Wind came at South; we look in for the Land, spake with two fishing Ockney Busses under English Colours, but they were

e time Dutch; at 6 at Night we got in with the Land, about two Leagues to the Northward of Tin-Flood with Cassle; we tack'd and stood off, the Wind

ney and south.

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Wednesday, August 16. The Wind from the g Gust outh to the South-south-east. At Noon Tin-wh d outh Castle South-west about 2 Leagues off;

eight eply to the Southward.

Thursday, August 17. From the 16th at Noon nest, this day Noon, the Wind at West-southest. At Noon much Wind, we reeft our ourses, and stand along the Shore to the South-

ward;

ward; at 2 a Clock Flamborough Head West about 2 Miles.

Friday, Aug. 18. The Wind at West-south. west. At Noon we anchor'd a League to the Northward of Cromer, the Tide being spent.

Saturday, August 19. At 6 in the Morning weigh'd with the Tide, and turn'd up Yarmouth Roads, anchor'd right against the Town; at 8 at Night weigh'd and turn'd up above the Pier and anchor'd, the Tide being spent; the Wind at South-west.

Sunday, August 20. At eight in the Morning weigh'd with the Tide of Flood, and turn'd to Windward; at 4 in the Afternoon anchor'd with the Tide of Ebb in Southwole-Bay in 8 Fathom Water, the Church bearing North-north-west; Winds from the South-south-west to the South south-east, a fresh Gale.

Monday, August 21. At 8 at Night weight with the Tide of Flood, and turn'd up into A borough Road, and anchor'd there: At Four the next Morning Lieutenant Whitlock went ashor at Alborough to take Horse for London.

At 9 in the Morning weigh'd with the Tid of Flood, the Wind at West-south-west, a strength of Gale, and turn'd up into the Sleeway, and an chor'd there, about 5 in the Evening in 9 strength of the Water, the Naze Land bearing West bearing.

Tuesday, August 22. At 10 a Clock weight the Wind at West-south-west, and turn'd Windward with the Flood.

At 5 of Ebb, At No

to Wind

North-we chor, and the Nore,

At one West-nort

a Clock.

of a North-East Passage. At 5 in the Morning anchor'd upon the Tide of Ebb, two Miles below the middle Ground. At Noon weighed with the Flood, and turned to Windward, the Wind at West by South, at the 6 anchored below the Shore. Wednesday, August 23. The Wind at Westning North-west; at 4 in the Morning weigh'd Annouth thor, and turned up a Mile above the Buoy of t 8 at the Nore, and anchored upon the Ebb about 8 r and a Clock. nd at At one a Clock weighed Anchor, the Wind at West-north-west, we turned up the River. rning n'd to d with athom -west: South weigh'd nto A our th ashor Now. N 2 he Tid , a frel and an n 9 f West b weigh urn'd

uth-

Now, after the JOURNAL, I do intend to shew my Conceptions of the said Voyage, and a true Relation of our Miscarriage; with some Observations made in the said Voyage.

HE first was the following the Opinion of William Barrans, that was to steer directly North-E from the North Cape, and to fall in the Midway betwixt Greenland and Nova Zembla; for having made the Land to the Westward of the North-Cape, the 19th day of June, I steer'd away North-east by Compass, which was not so much by the true Couse, because of the Variation that is there Westerly; and the 22d day at Noon we faw the main Body of Ice, being in the Lat, of 76 d. and about 60 Leagues to the Eastward of Greenland. At the first seeing of Ice, I did imagine it had been the Ice that join'd to Greenland, and that if I went more Easterly there might be a free Sea, fo I ran close by the Ice, it lying away East-south-east, and West than 18 Fo vast Mount. north-west, and every League, or less, that w

1311, W were a Northy two Gl. Ice a H the fam coasting a clear ! ing mor which w and the William of the D forg'd al of our Men did Dangers broaching it; for I d Land to th the Sea t continuct4 than 76 d. on; and fo on the ma Degrees n some Cen loose Ice t Body, was Pieces abov the rest of

ran, we met with a Cape of Ice; fo when we were about that, we could fee no Ice to the Northward, fo standing in North-east, sometimes two Glasses, that is one hour, we could see more Ice a Head, and then we were forc'd to go out the same way we came in, and thus I continu'd coasting the Ice, sometimes with great Hopes of a clear Sea, and then again dishearten'd by seeing more Ice; till at last I had no Hopes at all, which was when I faw the Land of Nova Zembla, and the Ice join to it. So here the Opinion of William Barrans was confuted, and all the rest of the Dutch Relations, which, certainly, are all forg'd abusive Pamphlets, as also the Relations of our own Countrymen. But certainly, if Men did really consider the many individual Dangers and Mischiefs that comes upon the broaching of fuch Untruths, they would never do it; for I do now verily believe, that if there be no Land to the Northward of the Lat. of 80 d. that the Sea that is there is all frozen, and always continuct's fo; for I that could get no farther than 76 d. found it so frozen without Intermission; and some of the Ice that we saw, that was on the main Body of it, had been convey'd 10 Degrees more Southward, would have taken some Centuries of Years to thaw it: For the s to the loofe Ice that lay about the Edges of the main eing 0 Body, was not more than a Foot thick in some t join's Pieces above the Superficies of the Water, and Easterly the rest of the Cake that was sunk, was more by the than 18 Foot below. So I conclude that those vast Mountains that were on the main Body were that W all  $N_3$ 

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all on Shore, as of necessity they must, if they hold the same Proportion; and considering the Shallowness of the Water, which I found all along the Ice, which, in the mid-way between the two Lands, I found to be no more than 70 Fathon. was doubtless a Sign that to the Northward is Land, and that the main Body of Ice that ly the crusted about the Shore, may be 20 Leagues or more, and that Nova Zembla and Greenland are the same Continent; for, if there had been any Paffage, there would have been fome Current which I could never, or very hardly find to be any, and the little that was run East-fouth-east along the Ice, which is nothing else but a small Tide which rifeth some 8 Foot. Thus the see having been an Obstacle in our way, as also the Cause of my coming so far to the Lastward which before I never intended.

I will come to the Misfortune that happen'd to us in the Loss of our Ship, which was thus, being amongst the Ice the 29th day of June in the Morning, we had like to have been enclosed in it, it proving likewise foggy Weather, I stood but all in out to the Southward, thinking to lie there till fossive which significantly and then come up to the Ice again, which signifies Removal either East, West, North, or South lay, and at but all this day it prov'd foggy dirty Weather the Wind being at West; so we lay South-south was all, which west with the Stem, and, by our Judgment and Weather; Reckoning, the Westermost Land of Nova Zem our Boats bla bore from us East-south east, that was 4 Point Which was under

under e tune th Clock Quarter out that out a H Bow, w and no. Captain have bec we had up with the Ship the Rock it had no the Sea w Mercy. ing a shor under our fcap'd, and on the Rod of 3 or 4 h but all in possible to any Service fmall Ancl which figni lay, and at

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under our Lee Bow. But fuch was our Misfornune that it prov'd not so, for about 10 of the Clock Captain Flawes being upon our Weather Quarter, fir'd a Gun and bore to me, and call'd out that there was Ice a Head; then I looking out a Head, faw fomething white just under the Bow, which prefently I perceiv'd to be a Breath, and no Ice; now, if I had stay'd with the Ship, Captain Flawes being to Windward, I should have been on Board of him, and then certainly we had been both loft, fo I was forc'd to bear up with hope that I might get clear of it; but the Ship being a great while wearing struck on the Rock, her Head lying to Seaward, which if it had not, but that the Broadfide had been to the Sea we had all perish'd, without God's great Captain *Flawer*, in the mean time (being a shorter Ship) wore round, and came close under our Stern, and with great Providence eppen'd scap'd, and stood off to Sea; here we lay beating s thus, on the Rock in a most cruel manner for the Space fune in of 3 or 4 hours, using all possible means to fave her, nclesid but all in vain, for it blew fo hard that it was im-1 stood possible to carry out an Anchor capable to do us ere till my Service, tho' we had an Opportunity to car. y a to the fmall Anchor, and warp to hall another out by, e again, which fignify'd but little, the Ship all this while it as to lay, and at the end of 4 or 5 hours, we faw Land South doscunder our Stern, to the great Amazement of Veather 1-fouth usall, which before we could not fee for the foggy Weather; fo I commanded the Man to get out ient and va Zm our Boats before our Mast came by the Board,

4 Point which was done. I fent the Boatswain toward N 4

the Shore in the Pinnace, to fee if there was any possibility of landing, which I much feared, because the Sea ran so high. In half an hour he returned with this Answer, that it was impossible to fave a Man, the Sea ran so high, and the Snow being in high Clifts on Shore was unaccessible which was but bad Tidings; so then it was high time to think on the Safety of our Souls, and we went all together to Prayers, to befeech God to have Mercy on us, for now nothing but individual Ruin appeared before our Eyes; after Prayers being done, it proved a little clearer Weather; and I looking over the Stern, faw a fmall Beach directly with the Stern of the Ship where I thought might be some possibility of landing; fo I fent the Pinnace again with some Men to be landed, but they durst not venture on Shore; fo I fent the Long-boat with some 20 Men to Land, who attempted it, and got safe on Shore; fo they in the Pinnace feeing that, followed them and their Men likewise, and both returned on Board again, now the Men on the Shore fent to me to defire fome Fire-Arms and Ammunition, for there was many Bears on Shore; fo I caused to be put into the Pinnace two Barrels of Powder that we had faved dry, before the Ship was belged, and some small Arms, and some Provision, with my own Papers, and Money; but as the put off from the Ship Side, a Sea overfee her, so that all was lost, with the Life of one Man, by Name John Bosman, being Cooper's Mate, and feveral others taken up for dead; the Long-Boat being then on Shore to land more

Mcn, (when came o nace w Grief to and the fwain, the Lie was im that Sea than I; (if it w them; over-fet. them M them, I poor Mo lo with Quarter Ladder . left for d away in Fraz the Shor and cold and went our Men Canvas a purpose;

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Mcn, and they hearing us call from aboard. (when as then we could not f the Shore) they came on Board and faved the Men, but the Pinnace was all broke to pieces, which was no small Grief to us; fo the Long-Boat being on Board, and the Sea running prodigious high, the Boatfwain, and fome others, would compel me and the Lieutenant to leave the Ship, saying that it was impossible for the Boat to live any longer in that Sea, and that they had rather be drowned than I; but defiring me when I came on Shore (if it were possible) to fend the Boat again for them; so I being half way on Shore, the Ship over-fet, so I made all the haste possible to Land them Men I had in the Boat; and having landed them, I went off to the Ship again, to fave those poor Men that had been so kind to me before; lo with great hazard I got with the Boat to the Quarter of the Ship, and they came down the Ladder into the Boar, only one Man who was left for dead, which was one that had been cast away in the Pinnace, whose Name was Alexanin Frazor, a very pretty Sailor: So I returned to the Shore, and got fafe to Land, though very wet and cold; so we hauled up the Boat on Shore, and went up the Land about a flight shoot, where our Men were making a Fire, and a Tent with Canvas and Oars, which we had faved for that purpose; so we lay all that Night very cold, wet i overand weary. The next Morning the Man that we left on Board recovered, and got unto the poper's Mizen-Top; for that Mast we left standing when d; the l more we came away, the other we had cut all down.

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The Ship laboured, and beat violently, but it blew so hard, and the Sea ran so high, that it was impossible to save him; so the Weather continuing blowing, with extreme Fogs, and with Frost and Snow, and all the ill compacted Weather that could be imagined together. more Tents to preserve our selves, and the Ship breaking in pieces came all ashore to the same Place where we landed, which ferved for shelter and Firing; besides there came to us some Hog. sheads of Flour, and Brandy good Store, which was no little Comfort in our great Ext emity. Here we lay betwixt Hope and Despair, hoping for fair Weather, that Captain Flawes might find us, which was impossible that ever he should do, if it continued foggy; and some despairing of his being safe, but that he might be lost as well as we. But supposing we never was to see him again, I was resolved to try the utmost to fave as many as I could in the Long-Boat; in order thereunto we raifed her two Foot, and laid a Deck upon her to keep the Sea out as much as was possible, and with this Boat and 30 Men (for she would carry no more) I intended to Row and Sail to Russia; but the Men not being satisfied who should be the Men, began to be very unruly in their mind and Behaviour; every one having as much reason to save himself as another, some holding Consultation to slave the Boat, and all to run the like Fortune. But here Brandy was our best Friend, for it kept them always Fox'd; fo that in all their Defigns I could prevent them; fome were of the mind to go by Land,

Land, Man; 1 tion to c had be Ground Rivers, there b nor for 40 Men it to the not in a Provide time, to pertinen but be i continuo and Froi which v Morning of the Sa tain Fla we set fii we was, and sent I writ a Voyage, and put

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Land, but that I knew was impossible to any Man; neither had we Provisions, nor Ammunition to defend us from the Wild Beasts; and if it had been passable, that is any going on the Ground for Bogs, that they would have met with Rivers, that they knew not whither to go; fo there being no probability of going by Land, nor for any to attempt going in the Boat, with 40 Men having been first destroy'd. I will leave it to the Confideration of any, whether we were not in a very miferable Condition without Divine Providence: To write my Thought I had at that time, to fave as many Men as I could, it is not pertinent at all to the Discourse, since it cannot but be imagined to be Tragical. The Weather continued still very bad with Fogs, Snow, Rain, and Frost, till the 9th Day of our being on Shore, which was the 8th Day of July, when in the Morning it cleared up, and to our great Joy, one. of the Sailors cried out a Sail, which proved Captain Flawes, as reasonable may be imagined; so we set fire to our Town, that he might see where we was, which he presently saw, so came to us, and fent his Boat to us; (but before I went off) I writ a brief Relation of the Intention of the Voyage, with the Accidents that had befallen us, and put it into a Glass Bottle, and left it in the Fortification I had there built. So by twelve a Clock we all got safe on Board, but left all on Shore that we had faved from the Ship; for we much feared it should prove soggy again.

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go by Land, Now I intend to give a brief Description of the Land, and the Observations I made there.

Which fignifieth New Land in their Language; to prove it is either an Island, or whether it joyneth to the Continent of Tartaria, would be a very hard Task, nor is it certainly known to any; for by Circumstances I think it impossible to prove, and by Experience the Search thereof is so impossible, that it will hardly be tried.

But let it be either, I think the matter is not much, fince it is the most miserable Country that lyeth on the Foundation of the Earth; a Country most Part of it covered perpetually with Snow, and that that is bare is not to be walked on, being like Bogs, upon whose Superficies grows a kind of Moss, which beareth a small blue and yellow Flower; and this is all the Product of the Earth of this Country. Under the Superficies of this Earth, about two Foot deep, after we had dug so low, we came to a firm Body of Ice; which, as I think, was never heard of before; lo these Men that did imagin, if they were forced to winter to the Northward, would dig Caves in the Earth to preserve themselves from cold, would

would Snow 1 other ! Snow 1 but her which i Forelan neath th over ha from th Hills, t next Ric the way lieve ha after we was alm of all th could no the other all the tir top of th and indi found in nued on and went find the of many Beam of dance of a little ( big as a

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would find here but very bad Lodging. Snow lieth here contrary to what it doth in any other Country; for in all other Climates the Snow melteth soonest away near the Sea Side: but here the Sea beateth against the Snowy Clifts, which in some Places are as high as either of the Forelands in Kent: The Sea has washed underneath the Snow a prodigious Way, and the Snow over hanging, most fearful to behold, and up from the Water-side, upon the first Ridge of Hills, the Snow was melted till you come to the next Ridge, which are Mountains, and they all the way up are covered with Snow, which I believe hath lain there ever fince the Creation; but after we had ascended this, which in some Places was almost Perpendicular, we came to the top of all the Mountains, as we supposed, for we could not fee far; for we could hardly fee one the other, the Fog was fo thick, and remained for all the time we were in the Country; but on the top of these Hills we found it bare from Snow, and indifferent good walking. The best that I found in the Country were only Bears. I continued on the top of those Hills some two Hours. and went as far as was convenient, that we might find the way back again. Here I found the Track of many large Deer; also we found an Horn of Beam of Deer: Besides Deer, there be abundance of large white Bears, and fome Foxes, and a little Creature much like a Concy, but not for big as a Rat; and some few little Birds like larks, and these be all the Beasts or Fowls we found in the Country. Every quarter of a Mile

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Mile there runneth down from the Hills into the Sea a fmall Rivulet of very good Water, which is melted from Snow. Upon the Hills we found abundance of Slate-stone, which made it good walking; but at the Sea-fide, where the Rivulet came down, we found very good black

Marble, with white Veins in it.

The Point where we lost our Ship I called Point Speedill: The high Hills I called King Charles's Snow Hills; and the next Point to the Southward, which is the Westermost Point of Nova Zembla, I named James Foreland, and the Point to the Northward, York Point. Point Speedill lieth in the Lat. of 74 d. 30 m. North and in the Longitude East from the City of  $L_{0n}$ . don 63 d. 00 m. The Variation of the Compass is 13 d. West, and it is full Sea at South-West Moon. The Tide rifeth 8 Foot, and setteth directly upon the Shore, which is a certain Sign that there is no Passage to the Northward. The Sea Water, about the Ice and Land, is very falt. and much falter than any Lever yet tasted, and a great deal heavier, and I may certainly fay the clearest in the World; for I could see the Ground very plain in 80 Fathom Water, which is 480 Foot, there being few Steeples so high as that was deep, and I could fee the Shells at the bottom very plain.

If the Voyage had succeeded, I should, God willing, have given a more full and nice Account of all the Experiments I had, and should have made, especially those of the Magnet, which I forbear here to mention, because I intended to publish

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of a North-East Passage. publish them in a Treatise by themselves; so having with the Ship loft all my Papers, and with them all I had in the World beside: I me ? humbly beg Pardon that I have given no more ample a Relation. The Voyage to Spitzbergen God count have hich I ded to

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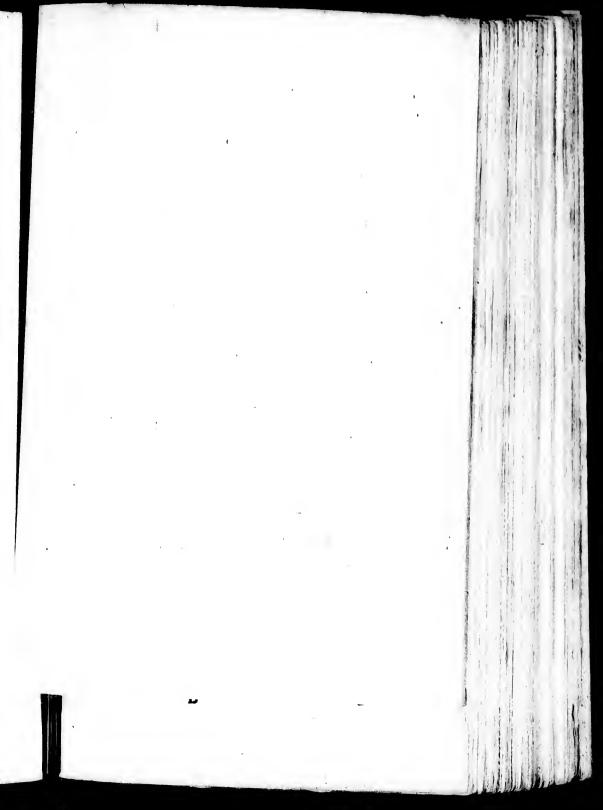
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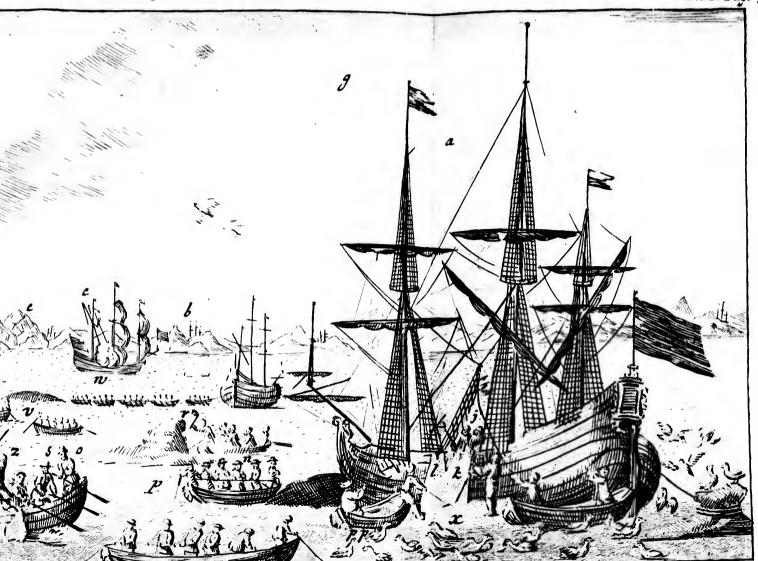
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### FIRST PART

OF THE

## OYAGE

INTO

## Spitzbergen and Greenland:

CONTAINING

he Passages of the whole Voyage, together with some Account of the Weather, from the 15th of April to the 21st of August, Anno 1671.

#### CHAP. I.

f the Voyage from the Elbe to Spitzbergen.

about noon from the Elbe. The Wind was North-east. At night, we came by the Hilge-land, it bore to oth-west. The name of the Ship was Jonas the Whale, Peter Peterson of Friseland Master.

B. The

The 27th we had storms, hail and snow, with very cold weather, the wind North-east and by east, we were in 71 degrees, and came to the Ice, and turned back again. The Island of John Maien bore from us South-west and by west, as near as we could guess within ten Miles. We might have seen the Island plain enough, but the Air was haizy and full of sog and snow, so that we could not see far. About noon it blew a storm, whereupon we took down our Top-sails, and surling our Main-sail drove with the Missen-sail towards South-east.

The 29th it was foggy all day, the wind North-east and by north, we came to the log and sailed from it again, as you may see in the

Plate A.

The 30th, the first Sunday after Easter, we foggy, with rain, and snow, the wind at North at night we came to the Ice, but sailed from again; the Sea was tempestuous, and tossed on Ship very much.

The 3d of May was cold, snowy, with hair and misty-Sun-shine, the wind North west and by west, the Sun set no more, we saw it as well

by night as by day.

The fourth we had snow, hail, and gloom, Sun-shine, with cold weather, but not excel sive, the wind at North-west, the weather every day unconstant. Here we saw abundant of Seales, they jump'd out of the water before the Ship, and which was strange, they would stand half out of the water, and as it were dance together.

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The 5th in the forenoon it was moderately cold, and Sun-shine, but toward noon darkish and cloudy, with snow and great frost, the wind North-west and by North. We saw daily many Ships failing about the Ice, I observed that as they passed by one another, they haled one another, crying Holla, and asked each other how many fish they had caught. but they would not stick sometimes to tell more then they had. When it was windy, that they could not hear one another, they waved their Hats, to signifie the number caught. But when they have their full Fraight of Whales, they put up their great Flag as a sign thereof; then if any hath a Message to be sent, he delivers it to them, as you may see in the Plate A by A.

The 7th we had moderate frost, clouds and snow with rain. In the evening we sailed to the Ice, the wind was quite contrary to us, and the Ice too small, wherefore we sailed from it. In the afternoon we saw Spitzbergen, the South point of the North-fore land, we supposed it the true Harbour. The Land appeared like a dark Cloud, full of white streeks; we turned to the West again, that is, according to the Compass, which is also to be understood of the

Ice and Harbour.

The 9th was the same weather, and cold as before, the Wind South-west and by west. In the asternoon a Fin-fish, swam by our Ship, which we took at first to be a Whale, before we saw the high sins of his Tail, and came near to it. We had let down our Sloop from the Ship,

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From the 25th of April to this day, we had not taken the Sun's altitude, we were then in 70 degrees and 3 minutes, and sailed towards the North and the Ice. It may seem strange, that we so often sailed to the Ice, and from it again, but I shall give you a reason for that hereafter.

The 12th it was stormy and excessive cold, the wind North, and we had the greatest frosts

in this Month of May.

On the 14th the wind was North-west, fine weather, with Sun-shine, we were within 75 degrees and 22 minutes. We told twenty Ship about us, the Sea was very even, and we hard ly felt any wind, yet it was very cold.

In this place the Sea becomes smooth prefently again after a storm, chiefly when the wind blows from the Ice; but when it blow off the Sea, it always makes a great Sea.

The same day we saw a Whale not far off from our Ship, we put out four Boats from on boat after him, but this labour was also in vain, so he run under water, and saw him no more.

On the 19th we had a dull Sun-shine, the wind was North, and it was so calm that we could hardly feel it; we rowed in the Ship boat to the Ice, and killed two Sea-hounds of Seales; there were so many of them on the state they could not be numbred.

On the 20th it was exceeding cold, so the the very Sea was all frozen over; yet it was

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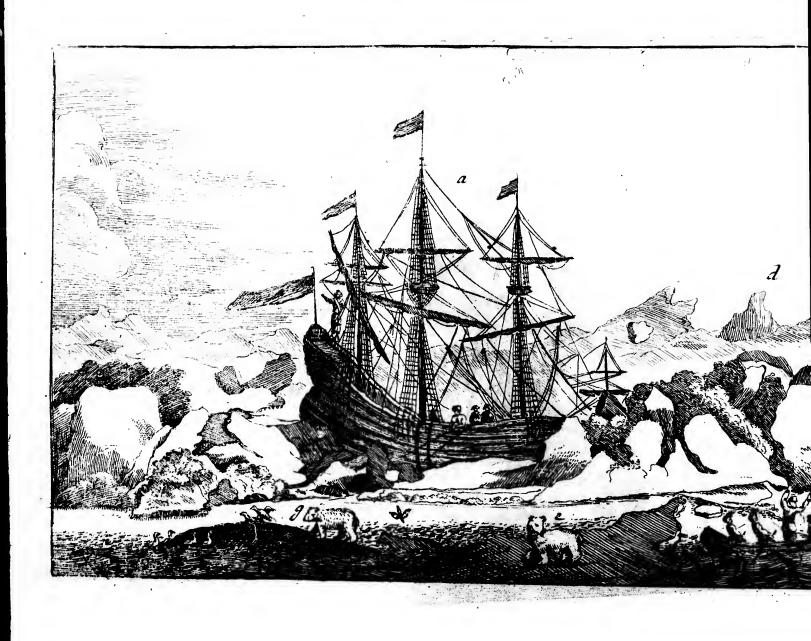
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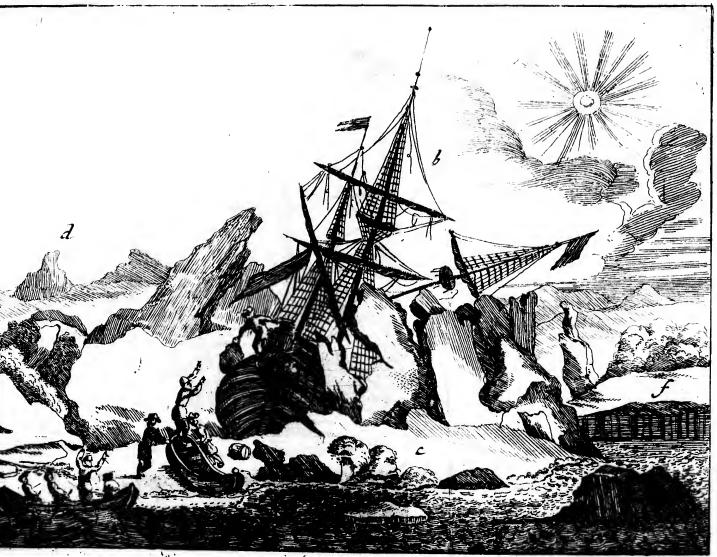
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Im and still, that we could hardly perceive wind, which was North; there were nine in our Company which sailed about the we found still the longer we sailed the er the Ice.

n the 21st (which was the fourth Sunday Easter) we sailed into the Ice in the foren, with another Hamburger-ship, called the ler, with 8 Hollanders. We fixed our Ship Ice-hooks to a large Ice-field, when the was South-west and by south; we numbred ships in the Sea; they lay as it were in an pour or Haven, (as you may see Plate A at B.) is they venture their Ships in the Ice with thazard.

nthe 20th it was fair weather in the mornfnowy about noon, the wind was Southand very calm. We rowed in the great p, before the Ship, farther into the Ice. In morning we heard a Whale blow, when the was in the East, and brought the Whale to ship, when the Sun was at South-west and alt; the same day we cut the Fat from it. filled with it 70 Barrels (which they call lels.) By this fish we found abundance of s, most of them were Mallemucks, (that is ly foolish Gnats ) which were so greedy of food, that we kill'd them with Ricks. fish was found out by the Birds, for we every where by them in the Sea where the ale had been, for he was wounded by an ping-Iron that stuck still in his flesh, and he also spent himself with hard swiming; he blowed also very hollow, he stank alive, and the Birds fed upon him. This Whale fermented when it was dead, and the steam that came from it inflamed our eyes, and made them fore. See Tab. A at a.

This same night Cornelius Seaman lost his Ship by the squeezing and crushing together of the Ice, for in this place are very great Sheets or Islands of Ice, and the Seamen call it West Ice, because it lieth towards the West, as you may see in the Plate B marked with b.

On the 2d of June we had a severe frost in the forenoon, and in the night we saw the Moon very pale, as it used to look in the day time in our Country, with clear Sun-shine, whereupon followed mist and snow, the wind

North-east and by north.

In the morning, June the 4th, we were a hunting again after a Whale, and we came fo near unto one, that the Harponier was just a going to fling his Harpoon into her, but she funk down behind, and held her head out of the water, and so sunk down like a stone (as is to be feen by d on the cut A ) and we faw her no more; it was very like that the great Ice-field was full of holes in the middle, for that the Whale could fetch breath underneath the Ice. A great many more Ships lay about this sheet of Ice, one hunted the Whales to the other, and so they were frighted, and became very shy. So one gets as many fishes as the o ther, and sometimes they all get one. We were there feveral times a hunting that very day, and yet we got never a one.

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On the 8th it was Foggy, and snow'd all day, we law that day very many (Sea-dogs or) Seales on the Ice about the Sea-side, so we set out a Boat and killed 15 of them.

On the 12 it was cold and stormy all day, at night Sun-shine; he that takes not exact notice, knows no difference whether it be day

or night.

On the 12th in the afternoon it was windy and foggy, we were in 77 degrees; we failed along by the Ice somewhat easterly towards Spitzbergen, as is to be seen in the Cut A at e. That night we faw more than 20 Whales that run one after another towards the Ice; out of them we got our second Fish, which was a Male one; and this Fish, when they wounded him with Lances, bled very much, so that the Sea was tinged by it where he swam: we brought him to the Ship when the Sun was in the North: for the Sun is the Clock to the Seamen in Spitzbergen, for else they would live without order, and mistake in the usual seven weekly days.

On the 14th it was cold and windy, the night loggy, the wind blew West, that day we came

ddle, so Hans Lichtenberg.

We arrived at Spitzbergen, June the 14th. y about wift we came to the Foreland thereof, then to to the the seven Ice-hills or Mountains, then we passed became the Harbour or Bay of the Hamburgers, Magas the or dens, English Men and Danes, and sailed into We were south-bay: we were followed by 7 Ships. Hamburgers, and 4 Hollanders, as is to be seen

by a in the Plate C. For here it is just the same, as when they will sail into the Ice, if more then one is there, for no body cares to be the first, because they do not know in what condition the Harbour or the Ice is within. In our Voyage thither we saw no Ice at all, until we came to Spitzbergen, for the Wind had blown it all away; in the night we did cut off the fat of the Fish, and filled with it 65 Kardels or Vessels.

That night we failed with three Boats into the English Harbour or Bay, and saw a Whale. and flung into him three Harpoons, and threw our Lances into him; the Whale ran under neath the small Ice, and remained a great while under Water before he came up again, and then ran but a very little way before he came up a gain; and this he repeated very often, so that we were forced to wait on him above half an hour, before he came from underneath the la The Harpoons broke out at length, and welof On the Ice we saw two great Sea-horses him. or Morfes, that were got upon the sheet of la through a hole that was in it, and were affeep we cut off their return by covering the hole with a piece of Ice; then we awaken'd then with our Lances, and they began to defend themselves for awhile before they were killed We saw also many White Fish.

On the 22th we had very fair weather, and pretty warm; we were by Rebenfelt (Deersfeild) where the Ice stood firm: we saw six Whales and got one of them that was a Male, and ou

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mird Fish: he was kill'd at night when the Sun food westward: this Fish was killed by one Man, who flung the Harpoon into him; and kill'd him also, while the other Boats were busein pursuing or hunting after another Whale. This Fish run to the Ice, and before he died. heat about him with his tail; the Ice setled ahout him so that the other Boats could not come to this Boat to assist him, till the Ice separated again, that they might row, when they tied one boat behind the other, and so towed the Whale to the great Ship, where they cut him up into the Vessels, and filled with him 45 Barrels. This night the Sun thined very brightly.

On the 29th we had fair weather, Sun-shine and calm. On the same day we sailed before the wide Harbour or Bay, where we found a great quantity of the fat of a Whale, three Vessels full, together with the Image of St. Nicholas, which stood behind a Ship that was lost, driving in the Sea. There was also here and

there still much Ice.

On the 1st of July about noon, two Whales came near to our Ship; we saw that they had a mind to couple together; we set our Boat for them, and the Harponier hit the Female, which when the other found, he did not stay at all, but made away. The Female run all along above the Water, straight forward, beating about with her tail and fins, so that we durst not come near to lance her, yet one of our Harponiers was so fool-hardy to venture too neer to the Fish, which saluted him with a stroke of

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her tail over his back so vehemently, that he had much ado to recover his breath again. Those in the other Boat, to shew their valour also, hasten'd to the Fish, which overturned their Boat, so that the Harponier was forced to dive for it, and hide his head underneath the water; the rest did the same; they thought it very long before they came out, for it was cold, so that they came quaking to the Ship again.

In the same morning a Whale appear'd near our Ship before the wide Harbour, we put out four Boats from our Ship after him, but two Holland Ships were about half a League from us, one of them sent out a Boat towards us; we used great diligence and care to take him, but the Fish came up just before the Dutchman's Boat, and was struck by him with a Harpoon. Thus he took the bread out of our mouths.

On the 2d of July we had Sun-shine all day and night long, and it was pretty warm withall; about midnight we went a hunting, and caught the fifth Fish, who was a Male; we cut the fat off, and flung it into the Forecastle. This is done when they are very busie in Whale catching, that they may not lose time, then they cut great pieces off of the Whale, that they may have done the sooner, for it doth not harm the sat if it should lie so for several days; nay, some reckon it to be the better for it, but that cannot be, for the sat runs away from it.

On the 4th we had Sun shine all day and night. We still were Whale-hunting, and that night.

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night we got the sixth Fish, a Male also, he held 49 Kardels of fat.

On the 3d and 4th day of July we saw more

Whales than we did in all our Voyage.

On the 5th of July in the forenoon it was bright Sun-shine, and pretty warm, in the afternoon it was foggy, at night Sun-shine again, which lasted all the night. We hunted all that day long, and in the morning we struck a Whale before the Weigatt; this Fish run round about under the water, and so fastned the Line whereon our Harpoon was about a Rock, so that the Harpoon lost its hold, and that Fish gotaway. This Whale did blow the water so fiercely, that one might hear it at a Leagues distance.

The same day about noon, the wind south, and Sun shine, we got the seventh Fish, which was a Female, and had 45 Kardels of fat; this we cut also into the Hold, and so we sailed from Weigatt, a little toward the west before the Muscle-Harbour, where we dropt our Anthor; we were employed with cutting the great pieces of fat into lesser pieces, to fill our Kardels with them; in the mean while the wind turned to North-west and west, and the single Anchor was dragg'd by the Ship, so we drop'd erother, and would have weigh'd up the former, but our Cable broke, the Anchor being faltned to a Rock.

On the 6th we had the same weather, and day and warm Sun-shine all night. Hard by us rode a and that itellander, and the Ships crew busie in cutting

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the fat of a Whale, when the Fish burst with so great a bounce, as if a Cannon had been discharged, and bespatered the Workmen all over,

On the 8th the wind turned North-west, with snow and rain. We were forced to leave one of our Anchors, and thank'd God for getting of from Land, for the Ice came on siercely upon us; at night the wind was laid, and it was colder, although the Sun shined.

On the 9th we got another Male Whale, being the eighth, which was yellow underneath the head; we filled with him 54 Kardels with fat;

the Sun shined all night.

On the 12th we had gloomy Sun-shine all At night we failed with three Boats into the Ice before the Weigatt, and got three white Bears, an old one with two young ones, they fwam in the water like Fish. On the Ice lay abundance of Sea-horfes, and the further we came into the Ice there were the more of them we rowed up to them, and when we came near to them we killed ten of them, the rest came all about our Boat, and beat holes through the fides of the Boat, so that we took in abundance of water, we were forced at length to row away from them because of their great number, for they gathered themselves more and more together; they pursued us as long as we could see them, very furiously. Afterwards we met with another very great one, who lay in the water fast asleep, but when he felt out Harpoon within him he was very much frightned, and ran away before the Boat again, where

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he was soon eased of his fright by our Lances. We saw but very few Whales more, and those we did see were quite wild, that we could not come near them. That night it was so dark and foggy, that we could hardly fee the Ships length; we might have got Sea-horses enough. but we were afraid of loofing our Ships, for he had examples enough of them that had lost their Ships, and could not come to them again, but have been forced to return home in other hios. When after this manner any have lost heir Ships, and cannot be seen, they discharge Cannon from the Ship, or found the Trumets, or Haut-boys, according as they are proided in their Ships, that the Men that are lost hay find their Ship again.

On the 13th we had cloudy Sun-shine, the bind towards night turned to North-east and by alt. The Ice came a floating down apace, we iled from the South-east Land to the west, nd we could but just get through by the North de from the Bear-Harbour or Bay. We failed nto the Rehenfelt (or Deer-field) where the Ice as already fixed to the Land, so that we could ut just get through, we sailed further to the logelsanck (Birds-song) as you may see by b in he Plate D. Then we turned toward the East with a North-east wind, in company with twelve hips more, to see whether there were any more Vhales left, with George and Cornelius Mangeln, and Michael Apple, who sailed in four fahoms water, and touched upon the wreck of Ship that was lost there.

On

On the 14th in the morning we failed his amongst the Ice, the wind being North-east an by east; we had a fogg all that day, with Sun shine, with a Rainbow, of two colours, whit whow, the and pale yellow, and it was very cold, and w

faw the Sun a great deal lower.

On the 15th it was windy, cold and foge the whole day; the wind turned North-well and the Ice came on in abundance, so that we could hardly fail, for it was every where ful of small sheets of Ice. At this time there we many Ships beset with Ice, in the Deer or Me cle-Bay. We failed all along near the shoat and at night we entred the South-Harbour (ma ked with c in the Cut D) where 28 Ships la at Anchor, 8 whereof were Hamburgers, if From that time, when we our Ancho rest Dutchmen. failed out of the South-Haven, we kept alway we: we within fight of the Land, and saw it always hine at nig except it was foggy; and so long the Skippe of Fin. Fift. stay by the Ice, to see whether there is an more Whales to be had. That night we fetch that the 7 water from the Land, near the Cookery of Har wermelted lingen, out of a hole, marked by b in the Plate he Haven

On the 16th in the morning we saw the Moon, and afterwards it was windy, with

bundance of Snow.

On the 18th we had fair weather, with Su shine, and we were also becalmed that we cou not fail, wherefore we towed with a Boat in all day, the the Danish Harbour, to gather some Herbs sto the Rocks. In the South-Haven rode 30 Shi at Anchor.

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On the 19th we had warm-Sun-shine and fair weather, but in the night stormy and rain. On the 20th storms, rain, and a great deal of rs, whit how, the wind South-west.

On the 21st rain all day long.

#### CHAP. II.

Of our home Voyage from Spitzbergen to the Elbe.

N the 22d day of July in the Morning, gers, the when the Sun was North-east, we wayed when we pur Anchors, and sailed out of the South-Happt alway wer: we had a fogg all day long, and Sunit alway hine at night; in the night we saw abundance e Skippe of Fin-Fishes.

we fetche that the Tar wherewith the Ship was daubed y of Har we we drove, it being calm, before

he Plate the Haven or Bay of Magdalen.

On the 25th it was cloudy, and Sun-shine, out cold withal; at night we came to the Foreands; the night was foggy, the wind Southvelt.

On the 26th we had the very same weather Boat in Alday, the Sun was very low in the night.

On the 28th we turned from the side of the le 30 Shi North-foreland towards the west, when the In was South-east; and we did sail South-west and

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and by west towards the Sea; then we changed our Course Southwards, and stood South east.

On the 29th, 30th and 31st we sailed South east and by South all along by the Land, the South side of the Foreland was 8 Leagues from us, bearing North-east, then we sailed South west and by South, it was very cold with North-west wind. We saw daily abundanced Fin silbes, but no more Whales.

On the 9th of August it was windy all da with a gloomy Sun-shine in the forenoon; cleared up towards noon; the wind was South east, when we took the Meridian heights the Sun, aud were at 66 degrees 47 minute we sailed South-westward all along the No

thern shoar of the Country.

On the 13th, being Sunday in the morning the wind was North-west, stormy, with ra and west winds. In the night we had we clear Moon and Star-light. In the morning saw the northern part of Hitland, we sail Southward; after the Rain we saw Fair-Is and sailed in betwixt Hitland and Fair-Isle, south-west, and afterwards South-west and South, and then Southward.

On the 20th it was fair weather, warm su shine, and somewhat windy. When the debegan to appear we saw Hilgeland, Souther ward of us, when we sailed South-east; the we took in a Pilot, on purpose chosen by the same sailed south the sailed south the same sailed sout

Megistrates of Hamburgh.

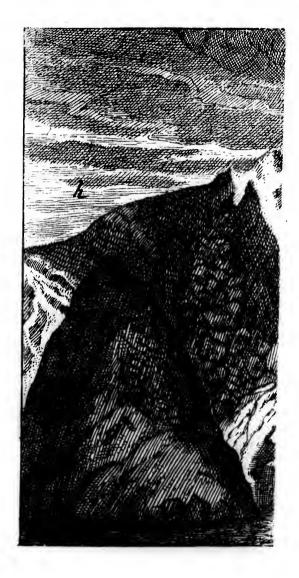
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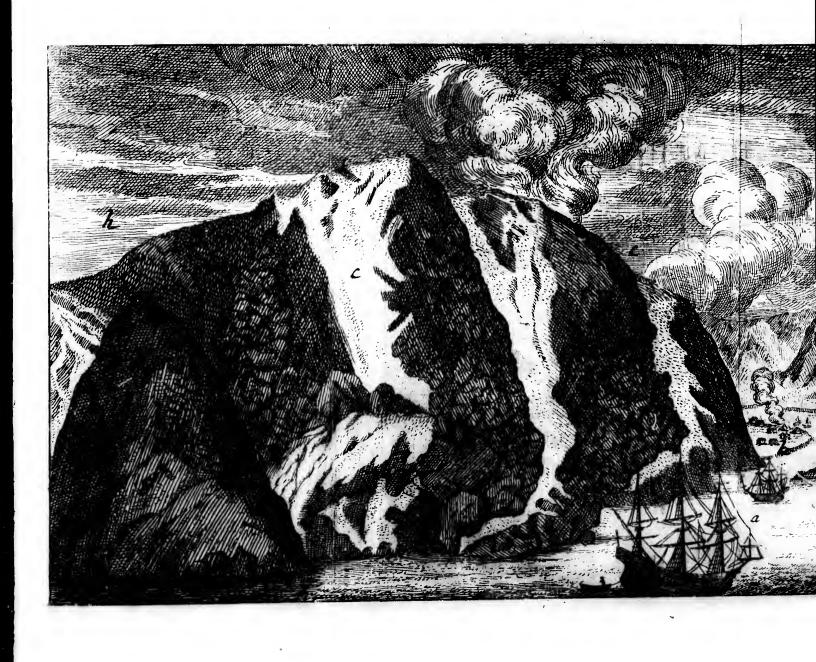
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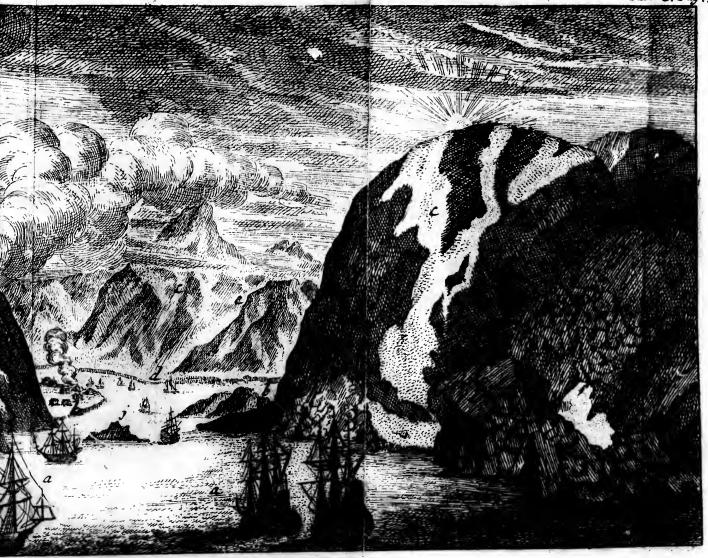
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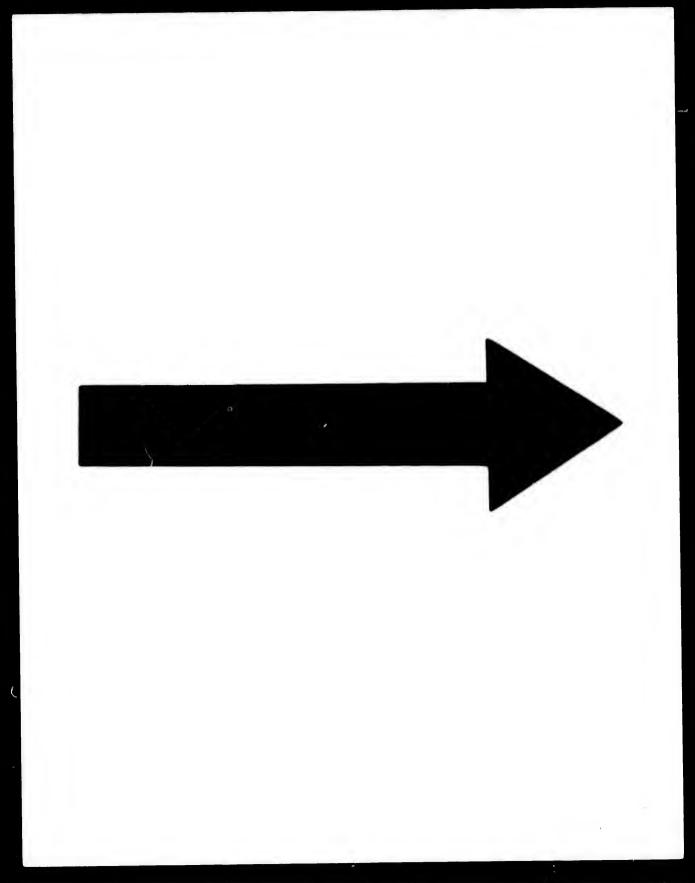
n the shink lay Red-Ancient

n the 29th it was fair weather, and warm thine all day; we failed before the Elbc, lay at Anchor by the first Buoy (called Red-Buoy) in the afternoon we weighed Anchor, and sailed to Kucks-Haven; in night we had thunder, and lightning, and

The End of the First Part.

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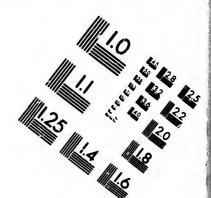
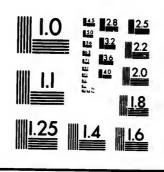


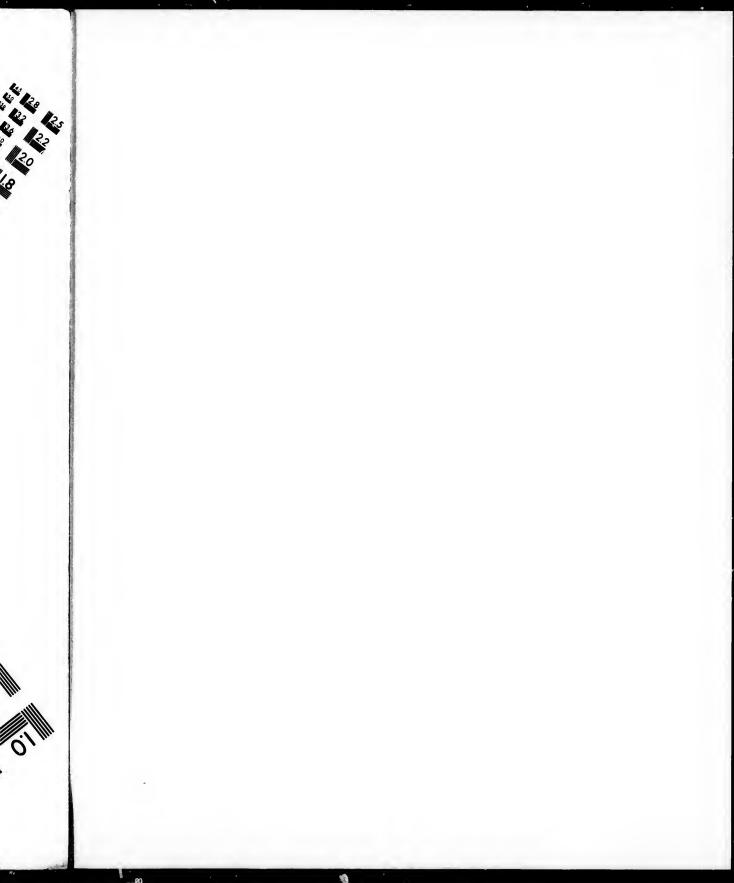
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T H E
SECOND PART
OF THE

# VOYAGE

T C

STITZBERGEN:

Containing the

Description of SPITZBERGER

#### CHAP. I.

Of the External Face and Appearance Spitzbergen.

HE lowermost parts of these Contries that are called Spitzbergen, so the sharp and pointed Hills or Montains, (for Spitz is pointed) are situated under the spitz is pointed.

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count nown, f then 76 degrees and 30 tninutes. We failed to the Bift deg. and no Ship ventured farther that year; but how far this Country is extended to the North, is still unknown.

It seemeth, because the Ice stands firm, and floats not, as that in the Sea doth, that there

should be Land not far behind it.

As the highest Countries are surrounded with Mountains, as a Fortification is with Walls and Works, so are these Countries naturally surrounded with high Hills.

The inward Condition of this Country we do not know, but it seemeth, since we see one Hill behind another, that it is so throughout

the whole Country.

At the Muscle-Haven, or Muscle Bay, we find plainer and leveller Ground; and the farther we sail toward the East, the Ground groweth he lower, yet it is all stony, and with propeds of smaller Hills; it doth not look at all ERGEN if it could be inhabited by Men.

I believe also that the Land there must of ecessity belower and lower; for else we should e it higher above the other, as we do the o-

ber Mountains.

Concerning the Beasts that live on this Land, believe they come over the Ice in the Spring, then the Ice stands firm, into these Countries, nd that the same way they go away from thence gain, when the long nights begin.

Concerning the Birds, we have partly a good count of them, their places and food is hown, as I shall mention when I come to write f them. When

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these Con bergen, fro lls or Mou ituated und

#### The Second Part of the Voyage

When on the 18th of June, on a Sunday in the veh the forenoon, we first came to the Foreland of quantity When on the 18th of June, on a Sunday in Spitzbergen; the foot of these Mountains looked like fire, and the tops of them were covered with foggs; the snow was marbel'd, and look'd if it were boughs or branches of Trees, and gave as bright and glorious a shining or gloss the Air of Skies, as if the Sun had shin'd.

When the Mountains look thus fiery, a han

storm generally ensues.

These Countries are in the Winter encouve com passed with Ice from divers places, according as the winds blow; as if it be East from No Zembla, if North-west from Greenland, an the Island of John Mayen: it also happened fometimes that the Land is begirt with Ice in the Summer, as they have often feen, that go the ther every year.

But when the Ice comes floating on too had or in too great a quantity, then the Ships make to the Harbours, Havens, Bays or Rivers, they call them, that run up into the Country the wind ufeth to receive us something unkind ly, when we fail into them, roaring over the dry Hills with small Whirl-winds. The watt

in these Rivers is salt.

We meet here with no fresh Streams or Rivo lets; nor did I ever see a Spring there.

Of some Rivers we know their beginning, others it cannot be found out, because of the danger of the Ice, which they are never in from; some because of the hidden Rocks in derneath the water, which are discovered

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We ergen. to Spitzbergen.

Sunday in the vehement breaking of the Sea, or by great preland of quantity of white foam.

The Names of the Havens you find all in

vered with order one after another in the Map of Spitz-

look'da bergen, as far as we have been.
rees, and These Havens they reckon to be the safest,
or glosso viz. the Safe-Harbour, and the South and Northin'd. Bay, which are the most known of any in y, a hard Spitzbergen.

The other Havens, of what names soever. er encomes we commonly fail by, because they lye open to

according the Sea.

from No.

Others we pass by because of the constant Ice cland, and that is in them, and the hidden Rocks.

happened In the South or North-Haven of Bay, ride hat go the en, twenty, nay thirty Ships, that lay at Anthor, as you may see in the Plates C and D.

Ships make Concerning the Birds, we see abundance Rivers, a nore of them by and on the Land, then ale Country nong the Ice, chiefly when they hatch their ng unkind ggs; we do not find they make their Nest up g over the with far-fetcht things, neither do they gather. The watterny thing for them from Norway, Schetland, or he like.

ns or Rivo The Seeds of several Herbs might grow in ginning, and on those Countries, are such as are fit for ause of the he Diseases and Distempers that are common never see here.

Rocksum We saw abundance of Sea-Horses by Spitz-scovered by ergen, on the low Land, and upon the sce 3

but

but we saw but very few Seales on the Ice thabout.

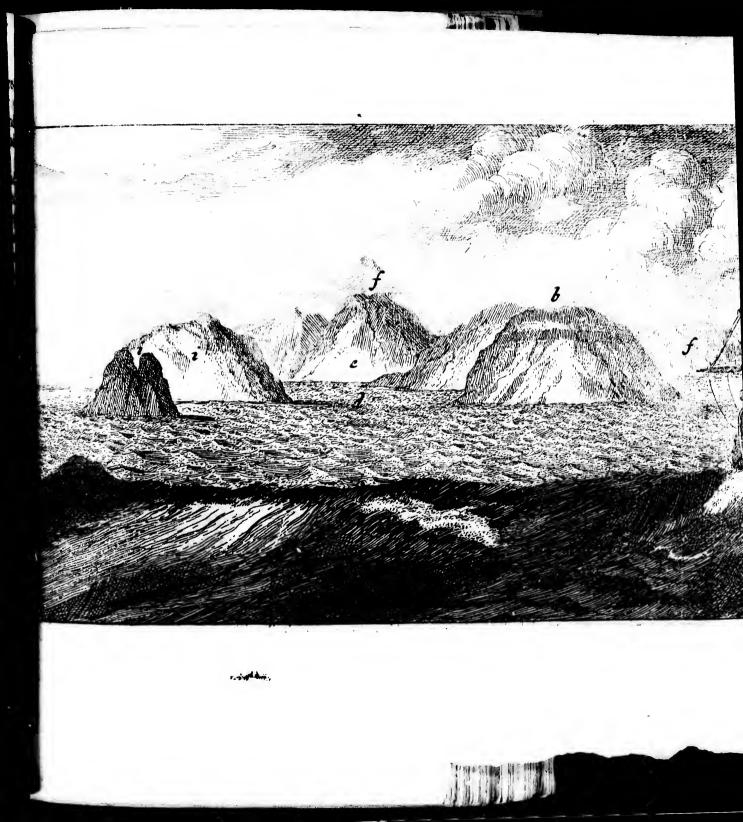
The Country (as is aforesaid) is stony, quite throughout it are high Mountains Rocks.

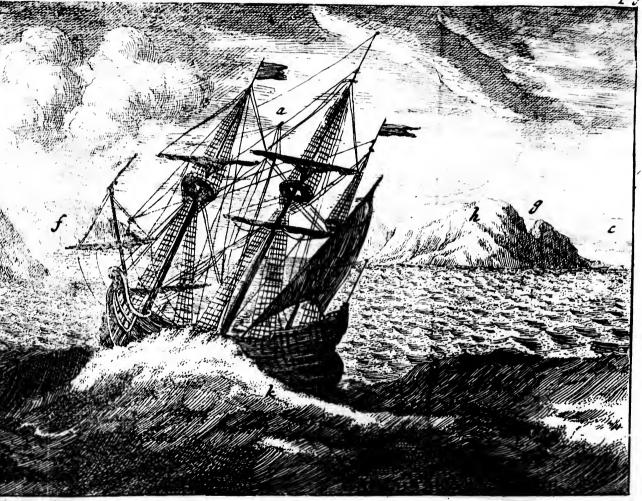
Below, at the feet of the Mountains, It the Hills of Ice very high, and reach to tops of the Mountains; the Cliffs are fille with Snow; wherefore these Snow-Moun show very strange to those that never saw the before, they appear like dry Trees with E ches and Twigs, and when the Snow sa upon them they get Leaves as it were, w soon after melt, and others come in the roothem.

There are seven large Ice-Mountains in a in these Countries, that lye between the Rocks, which look of a glorious blew co as also is the Ice, with a great many cracks Holes in them; they are hollowed out, may away, and cut in Groves by the rain and se water that runs down; they are increased gly by the Snow, as the other Ice that swime the Sea is also: they are augmented likewithe melted Snow from the Rocks, and from Rain that falls on them.

These seven Mountains of Ice are esteeme be the highest in the Country; indeed shewed very high as we sailed by them, un neath: the Snow look'd dark from the shad the Skies, which shewed very neat and cur with the blew cracks where the Ice was br off. ge Ice th ony, ns, f ch to fille Moun faw t vith B w fa e, w te roo the two colors, more and frafed go wime ikewid from

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About the middle of the Mountains some foggy Clouds hovered over; above these the

snow was very bright.

The true Rocks look'd fiery, and the Sun hin'd pale upon them, the Snow giving the Air bright reflection. They were covered with Clouds, so that you could scarce see the tops of them.

Some of these Rocks are but one stone from the bottom to the top, appearing like an old decayed Wall; they smell very sweet, as the green Fields do in our Country in the Spring

when it rains. See cc in the Plate C.

The stones for the most part are vein'd differently, like Marble, with red, white and yellow: at the alteration of the weather the stones sweat, and by that means the Snow is stained or coloured; and also if it raineth much, the water runs down by the Rocks, and from

thence the Snow is tinged red.

On the foot of the Mountains, where no mounts of Ice stand, lye great loose Rocks, as they chance to be fall'n one upon the other, with Caves and Hole, so that it is very ticklish walking upon them; both great and small Stones or Rocks are mixed together: these Stones are of a grey colour, or grey with black veins, they glister like Silver-oar. Most of the Rocks that are at the bottom of the Mounts are like the Pebles we pave our Streets withal. On these Rocks grow all sorts of Herbs, Graves, and Moss very plentifully; they grow up in the two Months of June and July, from C at

the Seed to bear Seed again. Look f in the Plate C.

The Herbs grow thickest where the water runs or falls down from the Hills, (and also when they are defended from the North and Eath winds) from whence always some Dust or Moh is carried down with it, which after a long time becomes Earth (yet it is rather Dung than true Earth) and the Birds do contribute by their dung towards it.

These Mountains seem as if they were Earth at top by reason of the height, but when you are at the top of them, they are Rock as well at the top as the bottom, which we also set when great pieces of them fall down. If Stone are flung down from these Mountains, it sound as if it thundered with an Echo and Ratling in the Valleys, as if very great pieces were throm off from the top of them.

The Mountains also are full of Cracks where in the Birds make their Nests; they all fly down from the Mountains to feek their Food in the water; some eat the Carrion of Fishes, other eat small Fishes and Shrimps, as I shall say, who I treat of the Birds.

There are also White-Bears, Deer and Fors in these Countries. The Bear liveth upon dead Whales or dead Men; the Fox feeds upon Bird and their Eggs; and the Deer eat the Herbs.

One may conjecture at the height of the Mountains by this, when the Skies are not very clear, the Mountains stand, to about the middle to relid in the Clouds; some of them look as if they is soon

were Plate Th

feem near ing, Moun Steepl but w vou fi foon l ness a of a

> o col ong l We tlear he En fter the mi ng in y disc hele The M of Sno perceiv The ( roared off, as

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k f in the were a coming down every moment, as in the Plate D at f.

The reason why the lowermost Hills do not feem to high, is because so very great ones stand

and East near them. A Ship with its Mast and Rig-Ing, is no more to be compared with these Mountains, than a small House with a high Receple. The Miles seem also to be very short.

but when you go to walk them upon the Land, you find it quite another thing, and you will were Earth foon be tired; and also because of the rough-

t when you hels and sharpness of the Rocks, and for want ock as well of a Path, you will soon get warm be it never

n. If Stone ong here.

We went in the night, when it was a very Ratling is clear Sun-shine, upon one of the Rocks near vere throw the English Haven, about a Mile long, to look fter a Whale that had got away from us; in acks where the middle of this Harbour others were a row-all fly down and in their Long-Boats, which we could hard-Food in the y discern: a great part fell down from one of thes, other whele Mountains, which founded very loud. The Mountains look'd black, strip'd with veins of Snow. It was so calm that we could hardly r and Form perceive any breeze of wind, and not very cold. n upon dead The shoar was very full of Sea-Horses, which e Herbs. off, as if some Bulls had bellowed.

the of the In the Country we travel thus; We take are not ver long with us two or more Guns and Lances, the middle to relist the Highway-men the Bears, but one k, as if they shoon tired, as I haid before, because of the

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stones and the loose Ice, whereon it is ven troublesome to walk.

As many as I have seen of these Mountain are situated thus; The highest are from Foreland to the Muscle-Haven (or Muscle Bay) after the Foreland follow the seven Ice Mount which are very high Mountains; and they called to from the Ice-Hills that fill up the W leys, or lye between the Rocks. These moun tainous Rocks are not so sharp or pointed at h top as the two foremost Rocks at the Haven Magdalen are. Then cometh the Haven the Hamburgers, Magdalen, the English and D nish Harbour, and at last the South-Haven. the Magdalen-Haven the Rocks lye in a roun or semi circle, at each side by one another stand two high Mountains that are hollow with in, as if they were dug out: After the fallio of a Breast-work, with points and cracks the top, like Battlements; at the bottom will in the Hill, stands a Snow hill that doth real to the very top of the Mountain, like a In with branches and twigs; the other Rockslow rudely.

In this South-Haven the Ships ride at Andre between high Mountains; on the left as # fail into it, is a Hill called the Beehive in the Cut C and D, marked with g; called so for its resemblance of a Beehive: Close to it lieb large and high Mount, called the Devils Had commonly covered with a fogg, and if the win bloweth over it, it darkneth the Haven, feemeth as if it smoaked, filling the Harman

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ewith; on the top thereof are three small e Hills covered with Snow, in the Cut C D. marked with b; two of them stand to one another. In the middle of this bour is an Island in the Cut C marked with hich is called the Dead-man's Island, because bury the dead men there after this manner: w are put into a Coffin, and covered with ap of large stones, and notwithstanding his, they are sometimes eaten by the white

have seen no other sort of Ground but It stones at Spitzbergen, so that the frost canpenetrate far into such Ground. I admithat the Snow was at that time all melted v. and in the Cliffs between the great Rocks no more Snow to be seen, although the is were very deep. I fancy that abundance ain had fallen in the Spring, and that the ther had been tolerable, or else we must esen more Snow there.

there are also more small Islands here and e in this Harbour, that have no particular les, but are called Birds Islands, because we her thereupon the Eggs of Mountain Ducks Kirmeums.

hen you come to Schmeremburg, so named illed so from Schmer, which signifieth grease; there are Houses standing, formerly built by the Devils Hall th, where they used to boil their Train-Oil. d if the will be Dutchmen once attempted to stay there all Haven, and Winter, but they all perisht: In the Cut C marked with k.

It

It is observable that a dead Carkase doth no easily rot or consume; for it has been found that a Man buried ten years before, still remain ed in his perfect shape and dress; and the could see by the Cross that was stuck upon h Grave, how long he had been buried.

These Houses are now from year to year de

stroved and burnt.

This year were yet standing several House like a little Village, some whereof were the burnt.

Over-against Schmerenburg were also seven Houses standing, and a Kettle or Boyler; the call that place the Cookery of Harlem. This ye four Houses remained, whereof two we Ware-houses, in the others they dwelt. The are built after this fashion, not very large; the is a Stove before with a Ceiling at top, an behind a Chamber taking in the whole bread of the House: The Ware-Houses are something larger; therein were still several Barrels Kardels that were quite decayed, the Ice stand ing in the same shape the Vessels had been of An Anvile, Smith's Tongs, and other Too belonging to the Cookery, were frozen up in the The Kettle was still standing as it was set, and the wooden Troughs stood From thence you may go to the English Haven on the other side is the place where the deal are buried; this is something even, like can but it is levelled on purpose. Behind the Houses are high Mountains; if one climent upon these, as we do on others, and doth 10

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e doth not mark every step with Chalk, one doth not know how to get down again. When you go till remain up, you think it to be very easie to be done; but when you are to descend, it is very difficult nd dangerous, so that many have fallen and oft their lives.

The River there is called the South Harbour. or Bay; and if the Ships suffer any damage at

sea, they resit there.

At the entry into the South Harbour, in the Valley between the Mountains, is collected reat quantities of fresh Water from the Snow nd Rain, upon the shoar stand abundance of yler; the lardels or Barrels; we used this Water for our Victuals, and other occasions: It is also found the Clifts of the Icy-hills on thoar; but true prings out of the Ground I never saw in Spitzergen.

> The shoar there is not very high, but the later is deep, there was no Ice at all to be feen hit, from whence I conclude that it had not een a severe Winter; for it is impossible that he Ice could have been melted in so short a me, not only here, but also in the English Haen or Bay, where the Ice stood firm still, and

ardly lay above half a Fathom under wang as it wa er. ood by it

The Ice doth melt much sooner in Saltater than in fresh River-water, but yet it is possible that so thick see could have melted No short a time. We saw also that the Snow telted on the tops of the high Rocks, and the id doth no later ran down, although it was there much colder

mil

colder then below; yet above and below melted alike: Differently from what I observe since in Spain in the Month of December 1672 the wind being North-west, when the Rainse below about a quarter of a League, yet above the Mountains were all covered with Snow, in the streight Line, one not higher than to other, as if they had been levell'd.

In the Northern Haven or Bay, lyeth a walarge Mountain, flat at top; this Island is a led the Birds Song, from the great number them that build and hatch there; for when the fly up, they make so great a noise, that one hardly hear his own words: This is mark with b in the Cut D.

Beside these there are more Islands named the Map, as the Clisted Rock, and such other,

The Rehenfeld is a low Land, and it is call fo from the Deer commonly seen there.

I was informed that it is all Slats, that supedgewise, so that it is very troublesome go on, it is all over-grown with Moss. The is a Hill upon it that looketh like fire.

Behind the Rehenfeld are high Mountainsagain they are not pointed at top, they lye as it we in a Line; by the Rehenfeld runs up a River to the Country, and is called the Halfmoon-By from its shape. On the other side of the Rivins a Mountain, flat at the top, and full of call silled up with Snow. Then comet the Liefde-Bay (Bay of Love) where two Hill stand together very like unto Spitzbergen Magdale

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Magdalens Bay, and those two Harboursare very nuch like one another.

Then we come to lower Ground behind the Muscle Harbour, where the Grass was so high, hat it covered our ankles, as far as we went.

Next is the Weihgatt, or the Straits of Hindeopen. The Weihgatt is called so from the Winds, (for weihen signifieth blowing) because a very strong South-wind bloweth out of it. On the Bear-Haven, upon the Land, are all red stones.

Behind the Weighatt followeth the South-west Land, which is also low; it seemeth as if it was dorned with small Hills: Then follow the seven slands which we could see.

We saw no Ships go any farther, neither ould I understand that ever any Ships did go arther, nor can they go so far every year to-vards the East, because of the danger of the ce that swimeth, and is brought from thence we the wind and stream.

In May and June is the best fishing in the Ice etween the Island of John Mayen and Spitzergen. In July and August the Whales run Eastward by Spitzbergen, we saw at the latter end many Whales that run to the Weighatt. It is unnown whether the Haven of this Weighatt goth through the Country, or no. But this is not that Weighatt whereof so many things are written.

More I do not know of this Country. Rocks and Snow and Ice-hills we find in abundance here, and the Creatures that live upon them, I hall describe hereafter.

CHAP.

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#### CHAP. II.

# Of the S E A.

HE Waves begin to raise themselves first from a small breeze of wind, and the increase and continuance of the breeze to grow longer, higher and bigger.

The Sea is not immediately made rough the beginning of high winds, but the Wa swell by degrees and slowly, until they of to be as big as Mountains; then they exp and break themselves, and fall over with d ing and soaming, as you may see by k into Cut D.

Then the following Wave from behinds eth it again, with much curled and found Scum, neatly spoted with the white for looking like Marble. This breaking and so ing of the Waves is successively repeated.

So the swelling Waves continually follows another, moving before the Wind with a qui motion, but when these Waves are short, to dash over the Ship, and break much, so the Ship is hardly able to live.

In stormy Weather little Waves curl on top of the great ones, and lesser again up them.

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The Ships do not feel these smaller Waves but y the great ones, that are called Sea-Mounns, which heave and mount the Ship with m, but nevertheless she always keeps her lit way through these unpathed Waves, which wonderful to behold.

In a hard storm the froth of the Sea drives edust, and looketh as when the wind driveth Snow along upon the Ice, or as the Dust of Earth does in dry weather, and you see the every where to look like curled Ice, that en it is a freezing is hindred from it by the id, all covered with a white soam, and one ave blows over the precedent, with a great tring and noise, as if a Water-mill were a ing; and this same noise the Ships make ewise when they cut through the Sea.

It is also to be observed, that the Waves dash ainst one another when the wind changeth, d cross over through one another, with great shing over the Ships, before they move all one of the same way.

I did not observe here the Sea-water so clear, r found it so salt as near the Ice; it may be reason of the shallow ground or bottom, d the many fresh Rivers that run into it; or cause the Frost cleareth the water more.

Concerning the manner of their Sailing; they il and change their Ways and Sails according they think fit. If there be a fresh Gale, they are use of all their Sails; if a storm, with the volowermost Sails, whereof they call the first to Fook or Fore-sail, the middlemost Schumfer or Main-Sail

Main sail, and the third the Basan or Mina

In hard florms they furl the fore Sail, a fail only with the Main-Sail and the Mize fail.

In the greatest storm of all, with these strees or half tied in, as they call it, or with the Mizen-sail half surled up; this they because the Ship goeth the stedier by real of the wind, or else it would rowle too mu up and down in the Sea, and the water would ash in too much on the sides thereof.

One man stands always at the Helm to she the Ship, but in hard weather ten men can has ly hold the Helm, wherefore they fasten it wis a Tackle, and so let it go too and fro, ast Compass directs them.

In and after a storm we have oftening strangers come to visit us in our Ships, in Blackbirds, Starlings, and all forts of small Bind that have lost their way in a storm from the land and fly to the Ships to save themselves, as prolong their lives, when others fly about it they are spent, and then fall into the Sea, as are drowned.

The Lumbs, and other Water-fowl, comen near us; which I mention on purpose to confute the erroneons Opinion of some, that believe that the before-mentioned Birds comen the Ships as Messengers, to bring the ill news bad weather.

Yet notwithstanding, these following signs marks commonly fore-tell a storm or hard we

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ther, when great Fish come near to the Ships n great numbers, when they Play, Dance, rowl bout, and leap out of the water, which is not lways playing in them, but rather their Bodies re afflicted with some pain or other. We saw veral Whales in the Sea, that threw themselves bout as if they were Sick, or a Dying.

When the Sea is tempestuous, it is not to be hought that it doth proceed from the Sea only. ut a hard and tempeltuous form and wind folbweth upon it, that sendeth the Waves like lessengers before it, until it arriveth it self with tempest; but this is not to be understood of he North sea, but only of the Sea betwixt Hit-

ndand Spitzbergen.

When the Air is so disposed, as the Stars do or only look bigger, but as if they were more number also, it is a great Prognostication, nd often proveth true also; It is a fign that he Air is full of Mist, which causeth upon langing of the Frost, great foggs, and a high ind follows foon after.

At night, when the Sea dasheth very much, thines like fire, the Sea-men call it burning: his thining is a very bright glance, like unto he lustre of a Diamond.

But when the Sea shines vehemently in a dark ight, and burns; a South or West-wind followh after it.

At the stern of the ship, were the water is cut brough, you see at night very deep under water, publies rise and break, then this shinning or aftre is not there.

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Hitherto we have discoursed of the Northsea, but next of the Waves between Hitland and Spitzbergen; near Hitland the stream runneth very swift toward the North, and it grows daily colder.

It is to be observed, that here the Waves of the Sea run longer, almost as they do before the narrow Channel between England and France in the Spanish Sea, (and what hath been observed heretofore of the rowling and tossing of the Sea belongeth properly to this) with continual tossing of the Ships, which maketh the men Sea-sick.

The vomiting and sickness is attributed to the Sea-water; but it really proceedeth from the great and continual motion of the Body when oftentimes we are forced to creep on a four.

Neither Meat nor Drink tasts well, the heat akes and is giddy, and they are always reaching to vomit. Costiveness of the Body dot generally accompany this Distemper, and the Urine is highly tinged. I reckon it no more then if one is not used to ride in Coaches waggons; only that it is always accompanied with a bad stomach and restresses.

The best Remedies for this Distemper Ibelieve, are Aromaticks chewed in ones mouth as Cinamon, Cloves, Galengal, Ginger, Nutmegs, and the like. Many think to drive the Distemper away with fasting, but they will find themselves mistaken. Some drink some water, and believe that will make them wo

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mit, which notwithstanding is not occasioned by the Sea-water, but by the loathsomness there-

To take away the ill taste out of ones Mouth, in my Opinion, the best means is to Eat and Drink Plentifully, it easeth quickly; weither ought one to Sleep too much, but keep in the Air, and look into the Wind, and to valk up and down in the Ship is also very proper.

But now let us return to the Waves again, hey Rise, although it be not Windy, as high a Mountains very smooth, and run away as far one can discern them, which is to be undertood when the Sea is turbulent, whereupon uickly a hard Gale of Wind followeth. In a form the Waves run after the same manner, as just now said, but with many curling and paming whirls, as is described in the storm of the North-sea. These Waves run a great way, that you may see between them at a great sistance.

If any Ships be in your Company, oftentimes ou cannot fee them.

These Waves are a great deal larger then in a North-sea, and have also greater power hen they fall over, but do not dash so easily ter the Ships as they do in the North-sea. he Waves in the North-sea are presently lay'd ter a storm, but the commotion of these last-hosten to the third day; if it be never so hm, the Ships are moved very violently, that a cannot walk, sit, or lie; it is best to keep

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in the middle of the Ship, for before and legul hind the Sea beats hard against them. The Sill is twe are driven against the Mast, and have no stead the bo ness from the Wind. If in a brisk Gale of the art full Wind the Sails are all full and Round, if Ship sails best upon the Sea.

There is as great difference in Ships, as Sailing, as there is in Horses, concerning finess and swiftness; the motion of the shi is therefore different; the stilness and a mera etness, when nothing is tumbled up and down ye in the Ship, furthereth also sailing we

much.

The Ships swim something higher in Sea then they do in Fresh-water; for then almost a foot difference in a Ship with the st loading. 'Tis generally agreed upon, that may fee a Ship in a calm Sea three, or the and a half German Miles off, and beyond # distance the Sea loseth it self in the Air, a the Air in the Sea. If a Ship saileth on main Sea at one and half German Miles distan you have lost the fight of half the Ship; two Miles you see only the uppermost M at three Miles distance you see only the Fla and when it goeth farther, you have quite it.

Land and Mountains may be seen at ago distance at Sea; we saw Spitzbergen at twel Miles distance off at Sea; the Country look like a black Cloud full of white stroaks, as is the Cut D marked with a, b, c, g, h, i. the Ice of this Sea it is coldest where the Wall

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fore and equiet; and the Sea-water is so clear, that The Si twelve and more Fathoms deep you may see ave no stead the bottom. There is no ground to be found isk Gale of the lice to drop an Anchor.

Round, it is also to be observed, that according to me colour of the Skies, the colour of the Sea changed. If the Skies be clear, the Sea oncerning boks as blew as a Saphir; if it is covered someof the Shir hat with Clouds, the Sea is as green as an es and a merald; if there be a foggy Sun-shine, it lookup and down by yellow; if it be quite dark, like unto the failing wolour of Indico; in frormy and cloudy weather, ke black Sope, or exactly like unto the colour black Lead.

> If the Wind be quite Calm, one may hear ating or knocking at a great distance on the a, by which we also observe the Whale ears, as shall be mentioned in its proper ace.

Among the Ice the stream runs Southwards, hich we observed by our driving back a great ay. At the Muscle-Haven the stream ran Northards. Those that Sail Yearly to those places, nnot give any certain information concerning bing and flowing; only they have observed e water to be higher about the Land, when le winds have been higher then at other times. nd this I have also observed, that if there was orderly or continual ebbing and flowing, e Eggs of the Birds would be drowned upon e Islands.

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Certain information, concerning the ebbins and flowing, is not casily to be had, I know more of it then what I have win no ten.

#### CHAP. III.

# Of the I C E.

**TN** the Months of April and May the well Ice breaks, because it lyeth Westward, which drives dispersed in the Sea, by the Island of 74 Mayen, and reacheth to Spitzbergen, where what n that time it was firm still, as you may see into our C Plate A marked with e.

The difference between the Ice of Spitzberge and it and that of our Country, is, that it is not smooth sput there, so as to slide upon it.

Neither is it so clear nor transparent, nor pome fharp and cutting, but a great deal harder, and shoum not easily broke or split; but it looketh likestur sainst to the Ground Ice of the Rivers in our County rife the or like unto Loaf-sugar.

Where the Ice is fixed upon the Sea, you believes. a snow-white brightness in the Skies, as if the Wh Sun shined, for the Snow is reflected by the Ale elds just as a Fire by Nightis; but at a distance pot mother fee the Air blew or blackish: Where there is me traw ny small Ice-fields, that are as the Meadows to hip, the Seales, you see no lustre or brightness of the ept s Skies.

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the ebbing The Sea dasheth against these Ice-fields, which id, I know occasioneth several fine Figures; not that they are naturally framed so, but just as Ice flowers on our Glass-windows, get all forts of figures: for these are framed by the dashing of the Sea. like unto Mountains, Steeples, Tables, Chappels, and all forts of Beaits.

These Ice-sields are a great deal deeper under Water, then they are high above it, and are of a paler colour under Water than above; the top of them might be called the Kernel and Marrow of the Ice, because the colour is much deeper

Lay the we hen that of the other.

ward, which The highest colour is delicate Blew, of the land of John time colour with the Blewest Vitriol, some-on, where what more transparent, yet not so clear as that in may see inthe our Country, which you may see through, let be never so thick; it is as hard as a stone. f Spitzberge and it is not easily split or cleav'd, because it is not smooth spungy, like unto a Pumice stone. Among this Ice the Ships sail up and down, until they rent, nor some to bigger Ice-fields, for the small ones harder, and houmber the Sea, that the Ships sail often a-keth likes winds them and perish, for when the winds our County rife the Waves drive against the Ice-fields, as it was against Rocks, and beat the Ships to

e Sea, you're pieces.

kies, as if the When we are passed by these small Iceed by the his selds that swim at a great distance from one distance you mother, then we sail in between them, and the there is many a small Ice-field behind the stern of our Meadows so hip, that it may be the sooner stopt, and shtness of the ept from swift Sailing, without letting the Sails-strike.

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Sails strike, for else it might easily run agains all wa an Ice-field. Every Ship's master is lest to his into the free will, whether he will sail into the Ice, be market cause in the Spring the Whales are in great Th numbers seen there in the West Ice, as they cal the sh it.

The Masters do not willingly sail in among the the Ice, when it is dark, or foggy, or storm, them, which must be expected in the Spring, and the carcel small sheets of Ice swim up and down in the logeth Sea, which the Skippers must avoid, lest the Wh

lose their Ships.

It may feem something strange, that they sime heir S so often to the Ice and back again, but there hed to is the same reason for it as in hunting after everal Deer, if we do not find Whales in one place rather we must seek them in others; for the fortund hindra in ketching of Whales is like the Chances and the Gaming, and there is no great understanding naketh required to find them: some see and catch more Ame than they desire, and others but at half a mile but it is distance from them, see not one, which is very what s common.

When they go in amongst the Ice, th Men stand ready with great Ice-hooks to kee Men stand ready with great Ice-hooks to ket which them off, that the Ship may not run again rowd them.

The farther you fail into, and amongst the between Ice, the greater Ice-fields you shall see, so that a you cannot look over them; for about the The West, as they call it, are larger Ice-fields to be smuc feen then about Spitzbergen, quite white at the but wh Top, covered with Snow, so that there is but experie

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run again walking upon them, because you fall deep s left to his into the Snow. (See A marked with I, and B

re in great The prints of the Bears footing we saw on as they all the shoar of the Ice-fields, for they seek their Prey in the water, which is the dead Carkases in among of the Whales, the Foxes generally accompany or storms them, for their choicer food of Birds is here ig, and the career than at Spitzbergen, for they flock not own in the logether, but fly fingly.

d, lest the When they sail some Miles into the Ice, where there is pretty large Ice-fields, they joyn hat they heir Ships to them with great Ice-hooks, fastbut there and to strong Cables, where they lie at Anchor. unting after leveral Ships about the same Ice-field, but they the fortune hindrance to one another in Whale-catching, Chances of hind the hunting of them from one to another nderstanding maketh them shie.

d catch mot Amongst the Ice we find no great Waves, half a mile but it is presty smooth, even when it is somewhich is very what stormy. All the danger is from one Icefield being bigger then the other, and the he Ice, the little ones swiming faster than the great ones, oks to keep which often causeth a stoppage, so that they run again rowd upon one another, not without great langer of the Ships, which are often catcht amongst the between, and broken by them. See the Plate B see, so that a.

or about the The Seamen hinder the pressing on of the Ice e-fields to be as much as in them lieth, with great Ice-hooks; white at the out what small help this affordeth them daily there is but experience testifies sufficiently. In fair weather the

the mischief is as soon done as in tempessuous because the see drives in the Sea either with the stream or wind, as either of them is the most prevalent, crashing and grinding against eat other whence the danger arises to the Ships, is after such a manner many Ships perish. So Plate B.

They say that a dead Whale tied to the Ship is the best defence against the Ice. Other hang the Tails and Fins about their Ship, which way is not to be rejected, for it is of greature to them to prevent the danger of the squeezing of the Ice; they have examples, that in suffqueezing of the Ice a dead Whale hath preserve them.

The Ice rifes out of the Sea as high as Mountain; the striking of them together make fo great a noise, that one can hardly hearly own words; and from this joyning together the Ice, the great Ice-hills are made, that divided

up and down in the Sea.

Other great Ice fields are not so high as the Ice hills, yet notwithstanding they are hard ever quite plain, and without a Hill; you see the Ice under water as deep as you can see. I is all of a blew colour, but the deeper you look the purer blew you see; which beautiful colour changes with the Air, for if it be rainy weather this colour groweth paler. I also have often seen the Ice underneath the water very great the occasion whereof was the troubled Air whence the Sea assumeth this colour.

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wonder that upon the largest Ice-fields high Mountains are seen, as are seen where e Ice grinds and dashes one against the o-

I am of opinion, that the Ice melts tords the bottoms, for one may see it spungy: relfe, if one would compute from the ginning, it must have reached the very ound, even in the middle of the depth of the

have seen in Spitzbergen white Ice that s frozen quite curled, it look'd just like Surecandy, was very hard and thick, and am even with the Seas surface. The Ships not always in this danger of Squeezing, r oftentimes there is little or no Ice to be n there, although you are a great way in place where it usually is; but as soon as a ndarises, you would admire from whence so at a quantity of Ice should come in less then hours time.

o high as the At the greatest Ice-fields of all, Ships do not ways ride the safest; since by reason of the ness and the motion of the Sea, these Iceds break, not without danger.

> When such Ice-fields break they part asunder, ich causeth a Whirl-pool in the Sea, where the out-parts press to the Center, and by t means the pieces of the Ice-fields raise mselves up, and dash and grind against each ler.

When we came to 71 degrees in the Month of il we saw the first Ice, and so we sailed up and

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and down by the Ice, until that Month wa spent, for so early in the Year no body dan venture himself into or amongst the Ice, h reason of the stormy winds; and sometime the Ice is still fixed, and stands firm, and then fore there is but a few Whales feen, for under neath the Ice they cannot breathe.

Into the Ice we failed at 77 degrees and a minutes, and drove with that sheet of Ice n wards the South. In this Month, and also the following Month of May, are the mo Whales seen here, which run towards the East and we follow them all along by the Ice

Spitzbergen.

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Near to the Land smaller Ice-fields are see because the Ice cannot give way by reason the Land, which causeth greater grinding at breaking, and upon that account smaller land wh than is in the open Sea. Yet for all this, some own a greater Ice-Mountains are feen there, that flat firm on the shoar, and never melt at botton but increase every year higher and higher, reason of the Snow that falls on them, an then Rains that freezes, and then Snow again alternately; and after this manner the ley-hill increase yearly, and are never melted by the heat of the Sun at the Top. These Ice-Mount berve change their first colour in time by the Air, be edast Rain and by the Clouds; and the fairest ble lt, lik that can be, is feen in the cracks of thefe Ice-hill colo From these same Ice-hills, oftentimes break waixt we great pieces, that swim in the Sea, and is more later I great pieces, that swim in the Sea, and is more compact than the other Ice by far. I once [1] ater,

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ne of these pieces that was curiously workt nd carved, as it were, by the Sea, like a the Ice, be thurch with arched Windows and Pillars, the d sometime poors and Windows hung full of Icikles, on and there he incide thereof I saw the delicatest blew that for under an be imagined; it was bigger than our Ship, nd somewhat higher than our stern, but how eep it was under water, I cannot exactly tell. lear unto the Muscle-Haven, a great Ice-hill me driving towards our Ship, that was as are the molecular our Poop, and went so deep under wards the Ealer, that it took up our Anchor, which lay fifthe Icet en Fathoms deep. I have also seen several thers, and of other sigures, viz. round and elds are seen bursquare Tables, with round and blew Pilby reasons are underneath, as in Plate B marked with f: grinding an ine Table was very smooth and plain at the top, it smaller k and white with the Snow; at the sides hung Il this, some own a great many scikles close to one another, te, that star ke a fringed Table-cloth; I believe that near orty Men might have sat about it. I have seen higher, to steel Tables with one Foot, and with two them, and three Pillars, and abundance of Seales swam Snow again pout it. The Dishes that furnished this Table, the key-hill were a piece of Ice like an Horses Head, and a elted by the wan, I doubt they were but salt. You must e Ice-Mount blerve that this Ice becometh very spungy by the Air, be led ashing of the Sea, and from thence grows e fairest bled lt, like Sea-water, and thence also changeth these Ice-hill scolour, viz. from the Sea and Rain-water mes break with it; for you shall commonly see the and is more later look blew or yellow, if you walk under I once for ater, with your Eyes open, and look upwards. The

The other Ice, as far as it is above water, it of a taste like other Ice, but that below the stalt like the Sea-water.

When we arrived at Spitzbergen, the lee Rehenfelt was as yet fixed, but a few days after wards it was driven away by the Winds.

The Ice begirts these Countries on all side as the Wind sets either from the Island of 30 Mayen, Old Greenland, and Nova Zembla. We found at this time that the Ice reached from the other side of Spitzbergen, and the Ships sail between the Ice and the Land, as if it were in River.

As foon as this Ice is drove thither by winds, the Ships must give way, or go into Harbour, until the Winds have blown or drive the Ice away, or else they are lost; but if the be other Ships that escape, the Men are saved

On this Ice I did not fee many Sea-Hounbut a great many Sea-Horses, and many Bi and Fowl.

We failed still on till we saw the Seven Islan but could go no farther.

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CHAP. IV.

Of the AIR.

Cembla. WHE Frost is unconstant in our Country hed from the but it is not so in Spitzbergen. In the e Ships fail wonth of April, at 71 degrees, it was so cold f it were it at we could hardly keep warmth within us. hey say that in this Month, as also in May, hither by hehardest Frosts happen every year.

or go into All the Rigging, by reason of its being wet, own or drive covered over with Ice, and stiff.

5 but if the They do not send their Ships so soon as they in are saved to sew years ago, and yet they come time e-

Sea-Houn sugh there, for if they arrive too early, there nothing for them to do, because the Ice is tyet dislipated, and therefore but few Whales be feen.

In the two first Summer Months of Spitzbertheir Teeth chatter in their Heads commonand the Appetite is greater than in any other untries.

The Sun fets no more after the third day May, and we were about 71 degrees, en we could see as well by Night as by day. CH cannot say much of constancy of the weain these two first Months, for it changdaily. They say also, if the Moon appears ldy and misty, with a streaky Sky, that then then there commonly follows a storm. Whe ther the Moon doth prognosticate such storm I cannot tell, because we have observed, the after we have seen the Moon, in a clear ske the Air has grown foggy, which happenethed ten, chiefly if the wind changes. When the Hills show siery, it is from Foggs, which after spread themselves every where, and the collected encreaseth: These Foggs look blew, like India and black afar off, which upon changing of the Weather are driven along by the wind, so the in less than half an hour the Sea is so cover with a thick Fogg, that you can hardly see some end of the Ship to the other.

On the 14th of May the Air was bright as clear, and yet very cold; we could feet Whales farther off in the Sea, then usually this time: We could not distinguish the from the Sea, for it shewed as if the Ships du ced in the Air like naked Trees or Poles.

After the same manner Spitzbergen looks a distance like a Cloud; the Mountains are so flected by the Sea, that he that knows not a Country very well, cannot easily discernition the Air; and so other Countries very often a pear. The other three Months, June, July a August, were very calm.

Concerning the Cold, it is much according to the quality of the Winds; so North and winds cause very intense Frosts; so that a can hardly keep alive, especially if the winds

blows hard.

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West and South winds, when somewhat constant, cause much Snow, and sometimes Rain also, and moderate cold.

The other winds of the 32, according to the Compass, whatever names they have, are changed by the Clouds, so that sometimes when the wind was South west and by South in one place, at a few Miles distance, there blows quite another wind.

What heat the Sun oftentimes affords we faw by our Eyes watering, and the tears that ran continually down our Cheeks. Yet this fevere Cold is not always, as is already mentioned, for if it were, how could any Herbs grow there.

Neither is there every year a constancy of winds or weather ruled by the Moon, but an alteration, as is in other places, sometimes a milder, and sometimes a severer Winter.

Skilful Ship-masters and Harponeers, commend those years for Whale catching, that have not many foggy and cloudy days.

Whether, according to the New and full Moons, the Spring tydes happen, cannot be known.

Such clear Skies as we have fometimes in a Summers day, with pleasant curled Clouds, I have not seen at Spitzbergen; but on the contraty, several dark and foggy ones. Rising Thunder-clouds I have not seen, nor ever heard of any body that had seen them.

Above the Ice the Air appears white, from whence we know where the firm or fixed Ice

E 2 lies,

lies, as I have before observed in the Chapter of the Ice.

In the two last Summer Months, chiefly in July, before the Weighatt, the Sun shin'd so warm, that the Tarr of the Ship between the Seames, where the wind could not come at it melted.

There is hardly any difference of Cold be. tween Night and Day, yet at Night when the Sun shineth, it seemeth to one that rightly considereth it, as if it was only clear Moonlight, so that you may look upon the Sun, as well as you can upon the Moon; so that there by one may distinguish Night and Day from each other. Increase of Cold, and changing of the Compais, we did not observe as far a we went.

It is also to be observed, that the Frost dot not let a dead Body be consumed easily in the Ground, as is already observed, in the Chapter of the Description of Spitzbergen.

The fecond day of August, in our Voyage homeward, we observed the Sun first to set.

Concerning the Meteors generated in the Air, I observed that the Rime fell down in the shape of small Needles of Snow into the Sea and covered it as if it was sprinkled all over with Dust: these small Needles increased more and more, and lay as they fell cross one over the other, and looked very like a Cobweb they are form'd by the cold of the Air, and increased to that degree, that the Sea seemed covered by them, as with a Skin, or a tender of

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Cold be. when the nat rightly lear Moonne Sun. as that there-Day from d changing ve as far as

Frost doth easily in the the Chapter

our Voyage rst to set. ted in the down in the into the Sea led all over creased more ofs one over e Sea seemed

Ice, which had the taste of Fresh-water; as also the Sea-water that is taken up into the high Air is changed, and falleth down again in sweet or fresh Rain.

This hapneth in clear Sun-shine and intense cold weather, and it falleth down as the Dew doth with us at Night invisibly, in dull weather; when the Sun doth not shine, you cannotice this; but you fee it plainly, if you look when the Sun shines towards a shady place; for then it sparkles as bright as Diamonds; shews like the Atoms in Sun-shine, all day long it falleth in so small Particles, that nothing sticks or hangs on your Cloaths of it make them wet.

At Noon when the Sun shines very warm, these small Needles melt in the Air, and fall down insensibly like Dew.

Sometimes we see in our Country. thing a little like these small Needles, which is what we call Rime, and falleth from the Trees in Atoms like Dust. This is small Snow, and may be seen as well in the Shade as in the Sun. These Needles are not the Exhalation or Vapour that uses in cold weather, to slick to the Hair of Men and Beasts. I must not forget, hat we see in these falling Needles a Bow like Rain-bow of two colours, white and a pale a Cobweb; Jellow, like the Sun, reflected by the dark Shahe Air, and dows of the Clouds.

After this I proceed to the Description of or a tender an other Bow, which I call a Sea-bow. This feen when the Sun shines clear and bright,

not

not in the great Waves, but in the Atmosphere of the Sea-water, which the Wind blows up and which looks like a Fog. Commonly we kee this before the Ship, and sometimes also behind to the Lee-ward (so they call that side of the Ship towards the Sea) over-against the Sun where the Shadow of the Sail falleth. It is not the Shadow of the Sail, but a Bow shewethin self in the Shadow of the Sail. We see this pleasant reflexion, in the small drops of the Salt-water of several colours, like the Rainbows in the Skies, that are seen over-against the dark Clouds.

This brings to my Mind another Phænome nor, viz. that in the Clouds near the Sun, a very bright Light is seen, like a Perelion of Mock-sun. These Lights are called Weather galls by the Sea-men.

This bright Light we find in the lower-mol Air, in the dark thady Clouds, that are notun like to a Cloud of Rain, because it is full of drops, wherein the Sun is represented, as thing

are in a Looking-glass.

This clearness of the Sun causeth a Heat which drives from it a Rain-bow, figured by the Sun, which bow are the Drops that by the Heat of the Sun are changed into a Vapour of Fog, and this Vapour shews like smoak in the Air, when the Cold remits, wherein these Colours are no more seen.

But in these raised Drops, as aforesaid, the Sun represents it self, and causeth these Colours, which are truly distinct, and representations.

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to Spitzbergen. Atmosphere Blew, Yellow and Red; which are the three

primary Colours of the Bow.

only we let Concerning the bigness thereof, I did consistes also be der and minded the Bow that I saw in Spitzthat fide of bergen, and found that it moved about with the nst the Sun, Sun by Day and by Night, and that it appeared in the Morning, Evening and at v shewethir Night, than in the Day-time.

We see this I will not mention the Whirlwinds which trops of the are unknown in these cold Countries; that the Rain used to take up the Water into the Air: But r-against the vet I will not omit the small Whirlwinds, that proceed from the high Mountains, from whence the Wind recoils, and so turneth round

We see farther in Spitzbergen, that the Sea as led Weaths well as the other Waters, sends forth a Vapour, when the Cold encreases, which Vapour is e lower-militurned into Rain in the Air, or into Snow, and t are not un it smelleth like a Fog or steaming Water.

it is fulled It is likewise an Observation there, that ed, as thing when we see great Vapours or Fogs in the Air, and that such a Vapour riseth almost every moment in a clear Sun-shiny Day, without , figured by Wind or other Causes, the cold Weather is as that by the bout to remit: But when the Air is overburdened by these Vapours, the Clouds are dissipated, and they last a great while with constant Wind. Such Vapours as we see in the Air, stick to our Cloaths and Hair like

> Out of these small vaporous Drops the Snow is first generated: First of all you see a small Drop. E 4

r Phænome whence the Sun, a about. Perelion of

seth a Heat,

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Sweat.

## The Second Part of the Voyage

Drop, as big as a fingle Sand in the Plate I Num marked with A. This is augmented or end by we creased by the Fog, until it cometh to be like in a unto a Shield or Plate with fix corners as clear them and transparent as Glass, to these fix corner as sticks the Fog like Drops, as B. then it freeze lou and splits asunder, so that you see the Figured hat a Star, as C. which yet is still frozen together rick until in time it is quite parted or divided aim at Ni der one from the other, and then you fe Tha Star with six Points, as D. which Points and fee not vet quite frozen, because there are sill Hea hanging some wet drops between the Points ann until at length it assumes the perfect Forms The a Star, with Points ferrated at the sides, like and Ferne, on the Points whereof still hang some disper Drops, as you see at E, which are lost at last es. and so it is turned into an exact and perfet But Star: And this is the Formation of the snow les or Star, which is feen in the severest Frost in Atom long until at last it looseth all its Points. See E. Th as to the many forts of Snow that fall in Spitz Snow bergen, and in what Weather I have made North these following Observations and Distinction, Marry Number 1. in the Plate of E. sheweth the Count Snow that falleth, when it is tolerable cold and rainy withal, then it falls like unto small Roses, Needles and small Corns. When the cold Weather doth remit the Snow falleth like Stars, with many points like the Leaves of Ferne. Plate E. Numb. 2. If it be only a Fog, and it snoweth much, it looketh as you fee Numb. 3. If it is very cold and windy like Numb.

## to Spitzbergen.

the Plate & Numb. 4. When it is very cold and not winented or enth to be like in a cluster, because the Wind cannot blow
men as clear them as under, like Numb. 5. When the VVind
the six corners as clear them as a cluster, because the Wind cannot blow
them as under, like Numb. 5. When the VVind
the six corners that was formy withal, there fell Hail
the Figure of the same bigness as you see it
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There is many more forts of starry Snow to the Points at the feen, with more Points, and some like unto the Points and Heart, but they are all generated after the same the Points canner, by the Eastern and Northern Winds. Feel Forms the needly Snow is generated by Westerly the sides, like and Southerly Winds: If the Snow is not a lang some dispersed by the Wind, it falleth down in cluster lost at last cs.

e lost at last cs.

and perfect But when the Wind driveth it, Stars or Needf the snow is only fall, every piece by it self, like the
est Frost a Atoms in the Sun.

est Frost & Atoms in the Sun.
ints. See & Thus much have I observed hitherto of the fall in Spitz Snow, and find that also when it is cold and a have made North Wind blows, all sorts of Snow, both Distinction, starry and of other shapes, fall as well in these sheweth the Countries as in Spitzbergen.

The End of the Second Part.

est Frost of ints. See R fall in Spitz have made Distinctions, sheweth the olerable cold the unto small When the falleth like a Leaves of it be only a oketh as you

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THIRD PART
OF THE

SPITZBERGEN:

CHAP. I.

Of the Plants of Spitzbergen.

Enerally the Figures of the Plants I he present you with, were all drawn by the Life upon the place when they were fresh, as of their natural size, except the Rock-play with but one Leaf, and the Plant like Host Tail, that stands by it, which because of the largeness could not be well drawn so big.

Tab: F. Pag: 58.

RT

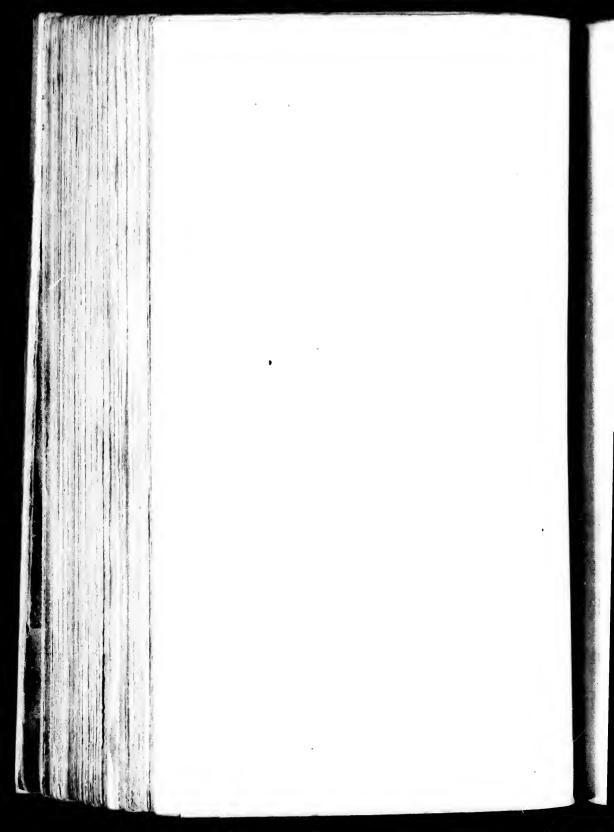
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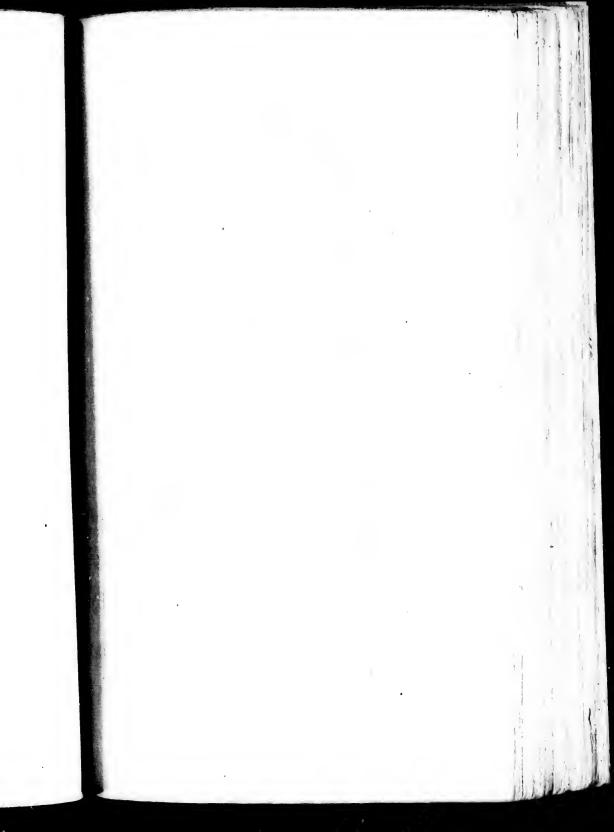
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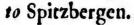






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Life. All the Herbs and the Mosses grow in the Grit and Sand of the Stones, where Water falleth down, and on that side of the which the East and North Winds cannot y come at. The Plants owe much of their with to the Dung of the Birds.

here were a great many small Herbs, which want of time I could not delineate, but I pose to do it hereaster, if God blesseth me h Life and Health, when I make my second

jage thither.

fomitted the white Poppy, whereof we stuck Flowers in our Hats; the whole Plant was

tabout a Span long.

Besides I have not mentioned the Red Sorrel, mean that which was shewed to me at Bremen the Dutch Gardener, which was of the same but the Leaves of that of Spitzbergen are

desire the courteous Reader to accept at sent of these for Sample, to shew him that these rough, barren and cold Mountains, re yet grow some Plants, for the Nourisht both of Man and Beast. The Herbs grow heir perfection in a short time, for in June, on we first arrived at Spitzbergen, we saw very little Green, and yet in July most of a were in flower, and some of them had a Seeds already ripe, whence we may obtate length of their Summer.

proceed to the Description of those Plants, ich I had time to delineate, and begin with se, that put forth their Leaves only at, and about

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about their Roots, and have but few orn

Then shall follow those that have sing Leaves on their Stalks; then those that has pairs of Leaves or opposite ones, afterware those with three Leaves, and then conclude with the impersect Plants.

#### CHAP. II.

# Of a Plant with Aloe-Leaves.

It is a very pretty Herb, and puts for thick, prickly and sad green Leaves in those of Aloes, a brown naked Stalk, about half the length of your Finger, whereon has round Heads of Flesh-coloured Flowers in Bunches, which are hardly to be discerned the naked Eye, one Flower close above another and near to one another Tab. G. marked with a.

Sometimes two Stalks shoot out of one Plan one bigger than the other. Yet each Stalk is two of these Bunches of Flowers.

I could not delineate its Seed for want of time.

The Root confists of many small Fibers.

We gathered it in great plenty on the 17th of July, behind the Cookery of Harlem, in the running Water.

to Spitzbergen.

I know not well, to what kind this may be Ferred. Caspar Baubin maketh mention of an rb in his Prodromus of his Amphitheater of ints in the 5th. Book and 15th. Chapter, which calls Limonium Maritimum, which he descrih with small, roundish and thick Leaves, like buse-leek, between which spread forth small alks with pale red Flowers; but the Root oth not agree with our Plant, for his is long, and parted at top, whereas this Root con-Is in many small Fibers, and is not red.

## CHAP. III.

# Of small House-leek.

THE Leaves of this are indented and very like those of our Dasses, for which I should ve taken it also, had it not been for the Flowonly the Leaves are thicker and more juicy, e those of House-leek, or, as we call it, those the lesser House-leek: The Leaves grow und about the Root, betwixt them is a small alk of the length of your little Finger, which round and hairy, and generally without r want of time aves, save only where it divides into another

Fibers.

on the 17th of The Flowers grow in scaley Heads (like unto arlem, in the Flowers of Stachas) are of a brown cour, and have five pointed Leaves, as I think with

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each Stalk h Fibers.

# The Third Part of the Voyage

with five small Chives within, like unto the Flowers of Wall-pepper or Stone crop. I so only the Flowers, for the Seed was not ripe. The Root is somewhat thick and sin with many strong and thick Fibers from sides of it; it may be referred to the Houseks, and called small indented or crem House-leek, with scaly Heads.

This Plant I found in the Danish Harbour Bay on the 18th. of July, it is figured in I

F. at a.

#### CHAP. IV.

## Of Crows-foot.

Some of these Plants are figured in the I G at c and e, and the Tab. H at c, and the Tab. I at d.

These four following Plants are all Crosseet, only distinguished by their Leaves.

The first and fourth in Tab. G at c, and Tab. I at d, are very like one another a their Leaves, whereof they have both to sorts, the undermost broader, and not so mucut, and the uppermost smaller and devided, yet they differ in this, that the doth not grow so high, and puts out much beaves out of one and the same Root, but fourth in Tab. I at d, hath but one long state.

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ereon sprouted out one single Leaf at a place. he fourth hath yellow Flowers, but whether first hath yellow ones (which I suppose) I The Flowers of the mnot well remember. Burth hath five Leaves, broader at the ends I smaller at the bottom, they grow out of ough Perianthium or Cup that is split into e also. See Tab. I at d. The Flowers of the h have fix Leaves, they are small and the d-vessels are like one another.

The Roots are differing, that of the first th many imall Fibers, and the fourth hath hicker and longer, with tender and small bers. The first burns the Tongue like Persicaor Flea bean, but somewhat less than in our untries. The Leaves of the fourth do not

rn fo.

found them both in the Danish Haven, the It in great quantities; they flower in July.

The fecond hath somewhat differing Leaves m the two former, for although the lowerof Leaves agree with them of the first, yet y are less, and those that grow higher, and me up after the lowermost, are in two places eper cut, so that the first part of the Leaf hat stands out before, is not very unlike Tongue, but the two sides are but a litindented in Table G it is marked with

There is also a difference in the Leaves of is Plant, as well as in the two before mentiled, for the Leaves that are nearest to the owers are small and deeply cut, and that with

# The Third part of the Voyage

with two incisions, and it burns the Tong The Flower is small, and hath fix and som The Seed-vessel is like m times seven Leaves. to the former, only it is less. The Root like that of the first, only it hath more Fiber there is also a kind of thick sheath that sh roundeth the Stalk, as is also to be seen in fourth. I found this Plant near the first, the Danish Haven the 16th. of July. third is yet smaller, but fuller of Leaves, o ly they are less, and not so deep cut, althou they have also four Incisions like the second in this I did not find that difference in Leaves, between the lowermost and those are nearer the Flower, it is in the Tab. Hm ked with c. The Flower is of five white Leav its Seed-vessel I could not yet see. Its Roots small Fibers, I found it in the South Haven the Sixteenth of July; it burns the Tongue, Leaves are thick and juicy.

I found in the same place another in Plant, exactly like to these, only the Flow thereof were of a purple Colour, and the Leaves not so juicy; wherefore I did not do it.

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CHAP. V.

Of Scurvy-grass.

His Scurvy-grass sends forth a great many Leaves from one Root, that spread themcut, althous lives round about it upon the Ground. ike the second talk grows out of the middle of these Leaves, sterence in which is a great deal lower than in our Counand those the y, with a few Leaves underneath the Sprouts. ne Tab. Hm the Flowers are of four white Leaves, they e white Leave row many on the same Stalk one above the Its Room ther, when one Flower sades, another cometh South Haven its room when the Flower is past; the Seed he Tongue, oppears in a longish Box, as you may see in he Figure; when on the contrary in ours the another in seed is found in a round one. The Root is ly the Flow hite, somewhat thick and streight, with some

olour, and the hall Fibers below.

I did not do A great quantity of this Plant is found on he Rocks, where they are not much exposed to the East and North Winds; I found it most in the South, English, and Danish Havens, the Parth was quite covered with it in the Da-

CHA It was the first Herb I found in Spitzbergen, then we Landed the first time, it was so small hat I could hardly discern it to be Scurvyrals, but afterwards we found it in its full per-

# The Second part of the Voyage

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perfection, and it seeded in the Month of The

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It is observable, that the Leaves of this Helphave but little sharpness at Spitzbergen, and there fore it is much weaker than the Scurvy-grass our Countries, so that we eat it instead of Salad in Spitzbergen, which we could not do of Scurvy-grass.

My Figure is like that cut, given in the Third Book, and the 35th. Chapter of the Go man Herbal of Matthiolus. See Tab. Hat a.

#### CHAP. VI.

# Of an Herb like Stone-crap.

HisPlant is doubtless a kind of a Stone-crop but the Leaves are rough or hairy, not thick, nor so juicy as ours are, neither doubt the contract of the contrac

burn or bite, like unto ours.

Before the Flower fully appears, it looks is unto that of Esula; but when it is quite blow and opened, it is of a purple Colour, and had sometimes five, sometimes six, and sometimes I have seen nine Leaves, the Stamina of the Flower I did not tell; neither did I ever seet Seeds thereof. The Root thereof is very small and one Plant grows close to the other. We found this Herb on the low Lands of the English Haven. Afterwards we found abundant

to Spitzbergen.

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is quite blow lour, and had and fometime stamina of the disvery small he other. We as of the England abundant

of it amongst the Mosses on the 26th of June. In the Tab. F. it is marked with c, and in the Tab. I. with a.

#### CHAP. VII.

Of a Snake-weed.

This is a finall Snake-weed, and is found very rarely in Spitzbergen; the undermost Leaves of this Plant are the biggest, but they are not above the breadth of ones Nail, they grow fingly on the Stalk, yet not above three of them, except the lowermost: the nearer the Flower, the (maller they are ; they have within, not far from the edge many fmall knobs or spots answering to the points of the Leaves, wherein the Veins or Nerves are terminated, besides the Leaves are not quite plain, but somewhat rumpled at the brims. Out of the Root sprouts forth sometimes single and sometimes double Stalks, as you may fee in the Cut, and this by-italk is always somewhat lower than the chief Stalk.

The Flower grows in a close Spike, with many small Flesh-coloured Flowers, it was so small, that I forgot to tell the Leaves theresof: The Seeds were not then come to maturity.

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## The Third Part of the Voyage

The Root sheweth of what kind the Plant is, and wherefore it may be called Bistorta of Snake-weed, for it lieth twisted in the Ground, it is about the thickness of your little Finger where thickest, hath small Fibers, is brown without, and Flesh-coloured within, and of an astringent Taste.

I found this Herb in the Danish Harbour, on the 18th. of July. My Figure agrees most with that which Camerarius hath given in the Fourth Book and Third Chapter of Matthiolis, is marked with a in the Tab. I.

#### CHAP. VIII.

Of an Herb like unto Mouse-ear.

His Herb bringeth forth smooth edged Leaves by pares, they are rough and like Mouse-ear.

The Stalks are smooth at their first putting out, but afterwards they grow rough, when the uppermost Leaves grow, they are rounding at the bottom.

At the end of the Stalk groweth a white Flower, out of its Perianthium, the number of its Leaves I did not tell, nor had I time enough to observe the Seed. The Root is round and slender, with small and tender fire bers.

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to Spitzbergen.

It seemeth, this Plant should belong unto the hairy or rough Alfine, and perhaps it may be the third or fourth kind of the hairy Alfine, of Dodoneus in the Fifth Book and Tenth Chapter of his first Latin Herbal, if the Leaves of his were not cut, as these are not. ed this Plant in the South Haven, on the 17th of July. See d in Tab. G.

#### CHAP. IX.

Of a Plant like unto Periwinkle.

His Plant runneth upon the Ground, and bringeth forth roundish Leaves by pairs on creeping Stalks.

The Leaves as I think are like those of Periwinkle, but they are somewhat rounder, and the largest of them are bent in before. The Stalk is somewhat knotty and woody.

The Flower appeareth at first, wrapt up like a Leaf, but after it is grown out a little more, one may see it to be a Flower, it grows out between the Leaves on the same Stalk.

weth a white The colour and shape of these Flowers, I the number of could not at that time observe, because they or had I time were not yet blown, much less could I gather

and tender fine Root is long, slender, round, woody and knotty, it hath small branched Fibers at the  $\mathbf{F}$  3

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The Root is the Seed.

# The Third Part of the Voyage

the bottom: I found it in the South Bay, be hind the Cookery of Harlem on the 19th. of

June, the 17th of July.

Since I neither saw the Flower nor Seeds, and in probability, it would have put forth more Leaves; I cannot determine, whether it be the Pyrola minima, whereof Clasius giveth is a Cut and Description in the Fifth Book of his rare Plants, in the 20. Chapter; or whether it may be Pseudochame buxus of the Hortus Eichstetensis, which is given by Clusius, in the 72th. Chapter of the before mentioned Book, by the Name of Anonymos Colutea flore, and accurately described, and Camerarius in his Hortus, givethis us under the Name of Anonymos Pervinca solution in the Tab. G. it is marked with b.

#### CHAP. X.

# Of an Herb like a Strawberry.

His agreeth in its Leaves with the Strand berry, for it hath three cut Leaves on the end of the Stalks, and its Flower hath commonly five Leaves (seldom but four) and it like a Strawberry Flower, the Stalks are round and rough, and so are the Leaves.

On the Stalks you see two Leaves one against the other of a differing figure and bigness, for one looketh like a Hand, and the other like a

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Finger, the fize also is different, for some have but three Fingers, and others have more.

The Flower is yellow, the Leaves of the Flowers are roundish, how many, I observed not: The Root is woody, somewhat thick with small Fibers, a little scaley at the top, it tastes dry and astringent like Tormentill.

In the Herbals I could find none liker it, than that which Lobelius calleth Fragaria Sylvestris minime Vesca sive sterilis, and in the universal Iferdumish Herbal, in the 70th. Chapter of the 17th. Book, by the Name of Fragaria non fragisera vel non vesca, yet it disters in the Flower and Leaf; for the Leaves in my Plant are cut deeper, and the Flower of his is white. In Tab. H. it is marked with b.

#### CHAP. XI.

# Of the Rock Plant.

ith the Strand Alis Plant belongeth to those called Wier Leaves on the Latin. by the Dutchmen, and Fucus in Latin.

er hath complet has a broad flat Stalk like a Leaf, and yet thour) and there sprout out of it many equally broad ks are round Leaves like it, as Twigs out of a Tree, at the top of the Stalks there are little narrow lones one again gith Leaves, some have five, others seven of bigness, so these, of a yellow Colour, as the Herb is also, other like and they are transparent like Glew, I know

not whether one may take them for its Flowers. Close to these there grow other oblog Leaves that are hollow, and as it was blown up, and fill'd with Wind, and many less Bladders round about close to one another. The Leaves that are blown up have nothing in them but Wind; for when I pressed them to gether, they gave a little bounce, whether these small Bladders have Seeds in them or make I could not observe.

The Seamen informed me, That from the Seeds of that Plant, the small Sea Snails at produced, but I am not satisfied, whether the proceed from these Bladders, or from Eggs a our Snails do.

It may be after the same manner, as we so on many Leaves in our Country, Bladders silk up with the Seeds of Worms or Caterpillen yet I dare not affert it, because I had no opportunity to search narrowly into the matter the Root groweth out of the Rocks, when fore I call it a Rock Plant, it hath some shoers, and is sometimes round; I sound the Herb in great plenty, first in the South Bannear the Cookery of Harlem, where we take the Water; then in the Mussel Haven at Spitzbergen; then at Cales in Spain.

When this Herb is dried, it looketh brown and blackish, it gives and groweth wet again when a South or West Wind blows, because of the Salt that penetrates it; but when the Wind

is East or North it is stiff and dry.

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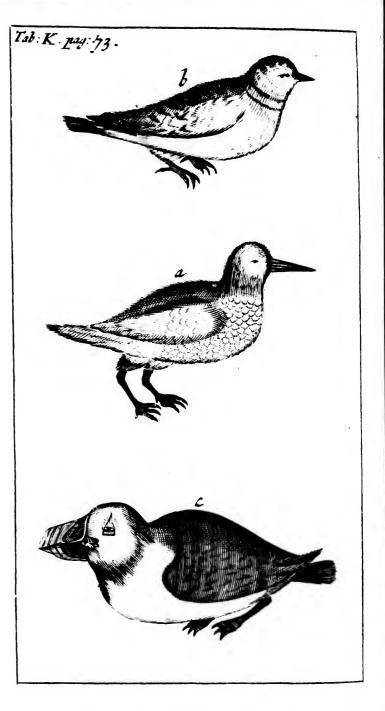
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## to Spitzbergen.

Among all the Figures that I have seen, I find none liker than that given in the 39th. Book, and the 50th. Chapter of the Ifurdunish Herbal, by the Name of Alga Marina Platyceros porosa, only that this is porous or spongy and white. In the Tab. F. it is marked with b.

The Leaves of the great Rock Herb, are very like unto a Man's Tongue, it is on each or both sides curled, but plain before and not curled, through the middle of it run two black stroaks or Nerves to the Stalk, and on the outside of them appear many black spots, within the black stroaks, on each side, to the middle-most plain stroak; the Herb is adorned with small curles, in the middle it is quite smooth to the Stalk, on the end of the Leaf, next the Stalk, are two white stroaks almost to the middle of the Leaf, bending round outwards, if they were quite closed, they would make an Oval.

The Leaf is above fix Foot long, and yellow, and the Stalk yet longer; the Stalk is round and smooth, of a yellow colour like unboiled Glew, near the Root it is thicker than at the Leaf, and it smells of Mussels.

The Root hath a great many Branches that the divided again, and stick very close unto the Rock underneath the Water. The whole Plant proweth under Water several Fathoms: When we wayed our Anchor, we pulled it up in great quantity from the Ground.

Together with this Herb we pulled up the airy Plant that stands by it, about fix Foot long.

long, and it is very like an Horses Tail, on that here and there it hath some small know like nitty Hair, or such as are split at the end the whole Plant was browner of colour that the former, and its Roots was fixed unto a former.

In these Plants were some redish Worms was or solded up like Caterpillers, with many la

They are figured Tab. P. at i.

The Herb was like Dodder, wherefore it make the call'd Water or Rock Silk. Amongstall Icons that I have seen in printed Herbals, Is it comes nearest to that hairy Plant, which tony Donat, in his Book of Plants growing bout Venice, calleth in his second Book, My argenteus Marinus, similis Plumae, only this is as white as Silver, but rather yellow or brown

Of these two Herbs we found great plent the South Haven on the 20th. and 21st. of the

There is another Sea Plant, which I all Sea-grass, whereof there is plenty in the End Haven underneath the Water above eight so long. The Leaves were about two or the Fingers broad, of a yellow Colour like shand transparent, ending in a blunt point, and top smooth edged, without nicks or prish every where plain and even, the Leaves go from the Root round about it, as it were on one hole in the Tab. I. it is marked with both

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# STITZBERGEN:

OF THE

NIMALS OF SPITZBERGEN.

int point, at the PREFACE of the Animals, but chiefly of the Birds in general.

> THE Animals of Spitzbergen here described, are either those with two or with four

Part.

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About Spitzbergen also are some Creatures the live only in the Water, and have no Legs (ex one would take their Fins, that are about the Breast for Legs, because as hereaster shall be for their Fins are jointed like Legs underneath Skin.) Some live in the Water, and also upon Ice and Land, and have either two or four Leg store,

We will begin with them that have two Legy Legy with the Birds whereof the most live upon the Wa and but few of them upon the Ice or Land.

#### CHAP. I.

Of Birds with Toes or divided Feet

F Land-Birds I observed but one st

#### I. Of a Snite.

This Snite which is also called the State runner (because it keepeth about the Strate ree is no bigger than a Lark.

Its Bill is narrow, thin, and corner'd will long Our Snites Bills are at the farthers broader and roundish, and cut in with a to notches like a Rasp to rasp Wood withal; that the whole upper Jaw and Bill lookethe actly like a Raspe with its handle. Our Sile gr are also bigger than those of Spitzbergen, of

or Land.

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itzbergen, oth

e Creatures they are very like one another in Shape and o Legs (em pour; this Bill both above and below is fourer shall be some es long. The Head is roundish, and of underneath fame thickness with the Neck.

and also upon Their Feet are made of three divided Claws or four Legistore, and one behind which is very short, we two Legistar Legs are not very long. It is of the coe upon theils of a Lark; but when the Sun shines upon , it shews blewish, very like those two Colours berved on our Ducks Necks when the Sun ines upon them. They feed upon the little ray Worms and Shrimps.

We shot some of them in the South Harbour, hear the Cookery of Harlem, they had not the afte of Fish at all. See Tab. K. at a.

II. Of the Snow-bird.

The Snow-bird is no bigger than a Sparrow, nd like a Linnet in his Shape, Bill and Colour. The Bill is short and pointed, its Head of e same thickness with its Neck. The Legs are out the Strate fore Claws, with longish crooked Nails, chinder Claw is somewhat shorter, but hath

the farthers with and not very long.
The Legs are with with the form their Head over all their Belly to the cood withal; if they are white like Snow, but all over their Bill lookeths ks and Wings they are gray. Some of them adle. Our Shi gray all over, but these are little ones.

I can

I can tell nothing of its finging, only the whitfeleth a little, as Birds use to do when are hungry.

When we sailed near the Ice, they can great flocks to us in our Ship, near the Island John Mayen, and were so tame, that you on take them up with your Hands.

They run upon the Ice where I only them, and not upon the Land, which is reason that they are called Snow-birds.

They kept with our Ship till we catchid first Whale, and after that the other Birds sin

ned them away.

We fed them with Oatmeal, but when Bellies were full, they would not fuffer to felves to be taken up. We put some of the in a Cage, and hung them up in the Cabin, they did not live long.

We eat some of them, and they were man unpleasant taste, but very lean. If I give my opinion, why the Birds slie to thes I believe that they are stray'd from the mand that so the Hunger compels them of Ships for Food. Tab. K. at b.

## III. Of the Ice-birds.

I saw also in the English Haven, a very tiful Ice-bird, which was so tame, that we have taken him up almost with our same, we would not go too near him with our for fear that we should shoot him all in prand so spoil his curious Feathers, so we him, and he slew away.

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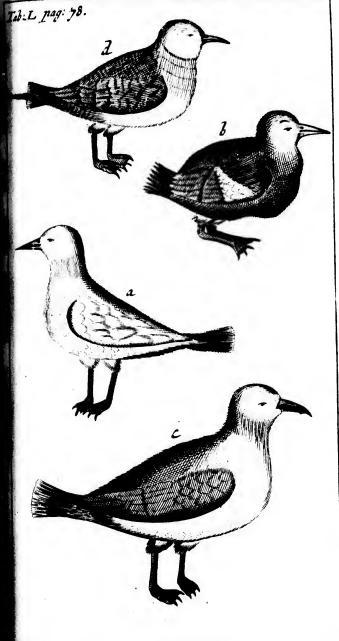
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they were made and lean. If It is flie to the state of th

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### to Spitzbergen.

The Sun shined at that time upon him, which de him look like Gold, so as it dazled our as almost. He was as big as a small Pigeon. I would willingly have delineated him, if we ald have catched him. I saw but this one of Kind.

#### CHAP. II.

Of the Broad or Web-footed Birds.

Spitzbergen. Some of these about Spitzbergen. Some of them have thin inted Bills, others have thick and broad ones. Some of the thick billed ones have them died or parted as the Malle Mucken (mad Gnats English) others have undivided ones, as the ret so called.

There is also a considerable difference in the els of these Birds, for some of them have als, as the Mountain-duck, Kirmeu and Mallecks: Others have them not at all, as the Burweister, Rathsher, Strundjager, Kutyegehs Parlicks to their Feathers no more than on the ans and other Water Fowl, for it runs off in them, as if they were oiled all over. Some are Birds of Prey, others not. There so a difference in their flying.

### The Fourth part of the Voyage

Some slie like unto a Partridge, as that call the Pigeon, others like Swallows, as the Lun and Red Geese, others like the Mews, as:

Mallemucke, Rathsher and Strundjager, others

like the Stork, as the Burgermeister.

The Birds of Prey are, the Burgermein Rathscher, Strundjager, Kutyegehf and Mallema There is also a great difference in their flet the Birds of Prey are not so good to eat as others, except you hang them up by their lefor some days, that the Train Oil may run of them, and the Air blow through them, then you do not taste the Train Oil so structure for else it would make you Vomit.

The Pigeons, Parrets, Red Geese and Duare the most fleshy, the old Lumbs have an tough and dry Flesh, not to disparage the Rot Kirmews and young Lumbs when boiled, the Fat taken away from them, and afterwatered in Butter; for then one may make as to eat them; but if you should eat their Fat would vomit and disorder the Stomach would vomit and disorder the Stomach would vomit and disorder the Stomach would vomit and Mountain-duck, all make their wonth high Rocks, where they are seen from the Foxes and Bears; but some of the make their Nests higher than others.

They sit in so great Numbers or Flocks up the Rocks, chiefly at the time when they he their Young ones, which is about the latter of June, and beginning of July, that if the sly up when the Sun shineth, they shades

Grou

nit.

, as that call found like a Cloud, and make so great a noise, s, as the Lun at one Man can hardly hear the other.

Mews, as The Kirmens and Mountain ducks, and also r. e Strundjagers, make their Nests on low rounds, (that one would think that the high and Malleman ands, where they are secure from the Foxes, in their Field and from the white Bears, for they swim in od to eat as Water from one Island to the other. We

ok up great store of their Eggs.

It may run

The Nests of these Birds are not all made ugh them, a ter the same manner. For the Mountain-duck n Oil so strong kes its Nest of the Feathers of its own Belly, wing them with Moss.

nit.

Seese and Dut The Feathers of these Nests are not the Edmbs have an r Down, brought us from Island, for that meth from great Birds (that the Inhabitants hen boiled, is re call Edder) and costeth when it is cleanand afterway from the Mossa Crown a Pound, as I have may make after informed; But the Feathers of the Moun-leat their Fater in-ducks of Spitzbergen, which they call Down, e Stomach Seamen put into their Pillows, and Strawthe Strundju ks, which if they should be cleansed would more worth.
The Kirmew layeth their Eggs upon Moss,

ut some of the lo do the Rotges. The Nests of the rest of thers. Birds were too high for us, so that we could s or Flocks were addly, and not without great difficulty reach when they im. If it be never so dark by reason of a out the latter of, yet every Bird knoweth how to find their n Nest again, and slyeth directly to it.

Concerning the Names of the Birds I have

Gro de ule of those, that the Seamen have given them

### The Fourth part of the Voyage

them formerly, according to their own Fanq that he that heareth them called by these Name may also know how to find them by them; this Book.

Some of these Birds, as Lumbs, Strundjage Mallemucks, Kirmews, and the Meros calle Kutyegehsen, I have also seen about England Scotland and Ireland; and also in the Span Seas, nay even upon the Elve by Hamburg, have heard the Kirmew and Kutyegehs cry, here is a difference, as well between the Bea as Men of other Countries.

#### I. Of the Rathsher.

First of the Rathsher (or Alderman in h lish) for this is the first of the thin billed in that have three Claws, and is called so by Seamen, because he is a very stately and has some Bird, but less than that which they Burgermeister (or Major in English.)

This Bird hath a sharp, narrow and think and hath only three Claws or Toes, that joined together by a black Skin, but he hath Claw behind. His Legs are not very long, a black, as the Eyes are also.

This Bird is whiter than the Snow, for whyou see him upon the Ice, you may disting him from the Snow; he shews very beauti with his white Body, his black Bill and End black Legs and Feet, and besides he is very shaped.

Voyage .

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s, Strundjage no Mews calle about Englan o in the Span oy Hamburg, utyegehf cry, b

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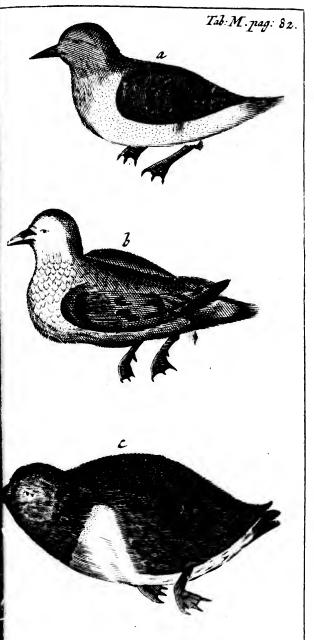
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Snow, for whom may distinguished beautions and Educate Bill and Educate Educat

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His Tail is pretty long and broad, like a

Lady's Fan.

His Cry is somewhat lower than the little Kirmens, as if he did say Kar, when she cries Kir, he spreads his Wings and Tail out when he flies, as the Strundjager or Crow doth. He doth not willingly swim in the Water as the other Birds do, nor doth he much care for wetting his Feet, but he stays rather where it is dry, yet he loves Fish mightily; and so the Proverb that we commonly say of the Cats is true of him; The Cat loves to eat Fish, but does not love to wet her Feet.

I have feen him upon the Ice feed on the Dung of a Sea-horse, upon whose Body he will rest while he is alive, as Crows will do in our Countries. He flieth commonly alone by himfelf, but where there is a Prey they flock in

great numbers.

I did delineate them in the shallow Corner (called shallow Point) in Spitzbergen, on the 10th. of July, when we shot him, he was not wild at all, so that I could have knock'd him down with the Gun. See Tab. L at a.

#### II. Of the Pigeon.

The Pigeon, or rather the Pigeon-diver, is al-To one of the beautifullest Birds of Spitzbergen. It is of the bigness of a Duck, the Bill is somewhat long, thin and sharp pointed, at the point the upper Bill is somewhat crooked, about two Inches long and hollow within. It hath

### The Fourth Part of the Voyage

but three red Toes on its Feet, with crooked Claws; it hath short redish Legs, and a short Tail.

Some of these Birds are black all their body over, and so was that which I delineated; as bout their Wings, and in the middle they are white pyed with black, but underneath the Wings they are quite white; others are in the middle of their Wings quite white; their Billis red within; the Tongue is also red and hollow; they cry like young Pigeons, whence they have their Name, for they are in nothing else like them. In their Crops I found Shrimps of Prawns, and small Sand-stones.

They do not flie high over the Sea, and their flight is very like the Patriges: They do not flie many together as the Lumbs, but use ally by pares, and sometimes one alone by it self.

They can keep a great while under Water wherefore they may be called Diving Pigeon

But chiefly when they are pursued by Man or if their Wings be hurt by a Shot, they will dive and keep a great while under Water; and sometimes they get underneath the Ice, and then they are suffocated, they were as nimble and quick under Water (if their Wings or Feet and not quite shot off) as we could row with our Boat. Their Flesh is good to eat when the six taken away from it, if afterwards it be trisk in Butter.

The first Diving Pigeon I got the 23d of Man on the Ice, and afterwards at Spitzbergen, when

all their body elineated; a ddle they are

iderneath the ners are in the their Billis and hollow; ence they have hing else like

the Sea, and ges: They do mbs, but us ne alone by in

d Shrimps of

under Water: Diving Pigeons irfued by Men Shot, they will er Water; and

as nimble and ings or Feet an d row with ou eat when the fi ards it be tried

t the 23d of Ma itzbergen, when

to Spitzbergen.

they are seen more frequently. See Tab. L. at b.

#### III. Of the Lumb.

This Bird is the likest in his Bill unto the Diwing Pigeon, only it is somewhat stronger and crookeder.

He hath black Feet, with three black Toes, and as many black Nails; his Legs are blackalfo and short.

He is quite black at the top, but underneath his Belly even to the Neck he is snow white; his Tail is short.

His Cry is very unpleasant, most like that of Raven, and they cry more than all the other Birds, except the Rotger-divers, he is bigger than the Diving Pigeon, as big as a midling Duck. In their Crops I find small Fish and Prawns, and also some Sand-stones; and one of them flying over our Ship dropp'd a large red Prawn into the Ship. I also delineated it in the mentioned place. They say likewise, hat small fresh River Fish are their Prey; but he Ice, and the his I cannot relate for certain.

When they have young ones, they commonly to by the old ones one or two on the Water, tho teach them to dive and swim. After the d ones have brought their young in their Bill, om the Rocks to the Water, the Preying Bird lled Burgermeister sometimes catches the young when the old ones are not present,

## The Fourth Part of the Voyage

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and sometimes when they are also, for they are not able to relist them.

They love their young ones so well, that they will be killed before they will leave them, (and will defend them as a Hen doth her Chickens (wiming about them ) at other times they are very hard to be that; for as soon as they see the Fire, they are immediately under Water, or fr away. They fly in great flocks, with pointed Wings like Swallows, and move their Wing much in their flight. One can hardly know that young Lumbs from the old ones, at the fit the fight, if you do not take exact notice of the or Bills; for the upper part turns beside the under tir part, at the point, and the undermost beside the the uppermost, as you see in the Cross Bill, you sk not so much in these; and it is commonly don in the 15th, 16th, to the 20th. year of the Age. The old ones are full of Flesh, but it very dry and tough, and therefore unpleasant to eat.

They boil them like the Pigeons, and sum off the Fat when they boil, then they fry the in Batter. I did not see them upon the la but abundance of them upon the Mountains They go waddling from one side to the other like the diving Pigeons. I have feen man Thousands of them together in the Danish Hall bour, on the Mountains, on that side where the East and Northern Winds could not blow has or not fully upon them, (and so do all other Birds chuse such places on the Mountains to their Habitations) where the Herbs do grow.

Voyage

for they are

times they are as they fee the

Cross Bill, ya Skin.

to Spitzbergen.

But I saw not so many by the Haven of Mag. dalen, where I drew my Figure on the 25th. of vell, that they July. Afterwards I saw some of them in the ve them, and Sponish and North Sea, not far from the Heilgher Chickens land. See Tab. M. at a.

IV. Of the Mew called Kutge-gehef.

Water, or fly with pointed This is a beautiful Mem, and is called the their Wings Kutge-gehef, because it cryeth so: He hath ardly know the Bill somewhat bent, as the Burgermeister; on is, at the fifth the undermost part of its Bill is a small know that the state of the state o notice of their or rising: About his black Eyes he hath a red eside the under sircle, as the Burgermeister; and he hath but ndermost beside three Claws, joyned together with a black

ommonly done. The Legs are also black, and but short; the year of the Tail is somewhat long and broad, like a Fan.
Flesh, but it is All the Belly is as white as Snow; the Wings

fore unpleasant and Back are grey, and the point of the Wings black. He is almost as big as an ordinary Mew, ons, and something less than the Strunt-jager. When n they fry there we cut the Fat off from the Whales, we saw upon the la bundance of them sly by the Ship, and heard the Mountains them cry.

the Mountains when the Seamen have a mind to catch have feen many ome of them, they bait their Hooks with a the Danish Har piece of Whales Fat, and so tye the Hooks to at side where the Line, and fling it into the Sea, and so they atch not only these, but all the other Birds of so do all other feet. He flieth with small Wings as a common Mem, and dives not. His Food is the whole do grow the feet of the Whale. He is hunted by the States. erbs do grow. Fat of the Whale. He is hunted by the Strunt-

G 4 jager

### The Fourth Part of the Voyage

jager (in English Dung-hunter) who leave him the not till he Dungs, which the Strunt-juga also eats.

This I could hardly believe at first, until as see terwards I saw it my self very often: The which I drew was catched by our Ship rese with a Hook, in the South Haven. I did partitionally observe in this Bird, that it used to min upon the Water, and hold its Head up again his the Wind, if it was never so great a Storm; and his so we found whole slocks of them swim upon the Water together.

This is not only to be understood of the Bird, but also of all the rest, for they looks gainst the Wind that their Feathers may not be blown as under and opened; for if they should be blown as under by the cold Wind and so the Cold would get in between them their Skin, which perhaps might prejudice the Health, for Birds are covered with their Feather as Men are with their Clothes.

And so, when they fly up, they press against the Wind with their Bodies, and expand the Bit Wings, and so fly away very swiftly; also the Co Feathers would be entangled, so that the could not have a sure and steddy flight, but faulter in their flying, like Birds that learn to the fly. There is but little Meat upon them; we can eat but the Legs and the Breast, for the Wing the are nothing but Skin and Bone. We have to Proverb, and say, Thou art as light as a Mew of This we may very well say of these Ment we

often: That our Ship ton a. I did par

hes.

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who leave him I have seen them since in the Spanish Sea, and ie Strunt-juga also in the North Sea, but yet they differ from bese; and so do the Beasts of all Countries. first, until as See Tab. N. it is marked with a.

#### V. Of the Burgermeister.

t used to him. The Burgermeister (in English Major) is the lead up again higgest of all the Birds of Spitzbergen, wherefore t a Storm; and his Name is given him as being the Chief of em swim upon them. His Bill is crooked, of a yellow colour, narrow and thick; his Under-bill is fornewhat erstood of the rising or knobby at the point or end, a great or they looks deal more than the Kutge-gehefs, which looketh ers may not be very pretty, as if he had a Cherry in his Mouth; if they should be hath longish Nostrils, and a red Ring about their Feather his Eyes, as I mentioned when I spoke of the the cold Wind Kutge-gehef; he hath but three Claws, of a petween them a vey colour, his Legs are grey, and not quite t prejudice the long as those of a Stork, yet he is almost with their Fa equally big with him.

His Tail is broad, like a Fan, and white, ney press agains which is chiefly to be understood of these and expand the Birds when they sly; his Wings are of a pale iftly; also the colour, and so is all the Back, but the Wings , so that the ete white at the tip, and so is the whole Body. ddy flight, but the builds his Nests very high in the Clifts of ds that learn to the Rocks, where you can neither shoot nor pon them; we catch them any other way 5 which was the for the Wing reason I could not see their Nests. I have seen e. We have sometimes two, three and sour of their young ight as a Mew ones together; we shoot most of them when of these Men we draw a dead Whale behind our Ship, where they

### The Fourth Part of the Voyage

they flock in great numbers, and bite off great pieces of the fat of the Whale; at other time we must shoot at them a great distance, as a other wild Birds, such as Ravens, Herns, and is the like.

His Cry is like the Cry of some Ravens that I have sometimes heard; he flyeth in the Air like a Stork; he preys upon young Lumbs a the Hawk doth upon all sorts of Birds; he seed also upon the fat of the Whale, whereof he doth swallow down pieces as big as ones Ham whole.

The Mallemucks are mightily afraid of him they will lye down before him (when they are upon the Carcass of a dead Whale) then he bit them about the Neck, which I believe down the him them much, because they have a wind thick Skin, for else they would oppose and resist him, or fly away, but they do not matter it, neither will they leave their Meal for him biting. I have seen him also about the see horses, whose Dung he eats. He flyeth commonly single, except when they meet at the Prey. He loves to rest on the water, but down not care much for diving; we shot one before the Weighegat, on the 10th day of July. You have seen him at c in the Tab. L.

#### VI. Of the Rotges.

This Bird is a Diver, and might be rathe called the Diving Rotge. His Bill is crooked

bite off great at short, somewhat thick, of a black colour; to other sime as Feet have but three Claws, with as many distance, as a lack Nails, and are joyned by a black Skin; s, Herns, and s Legs are short and black; he is almost all

wer black, except his Belly, which is white.

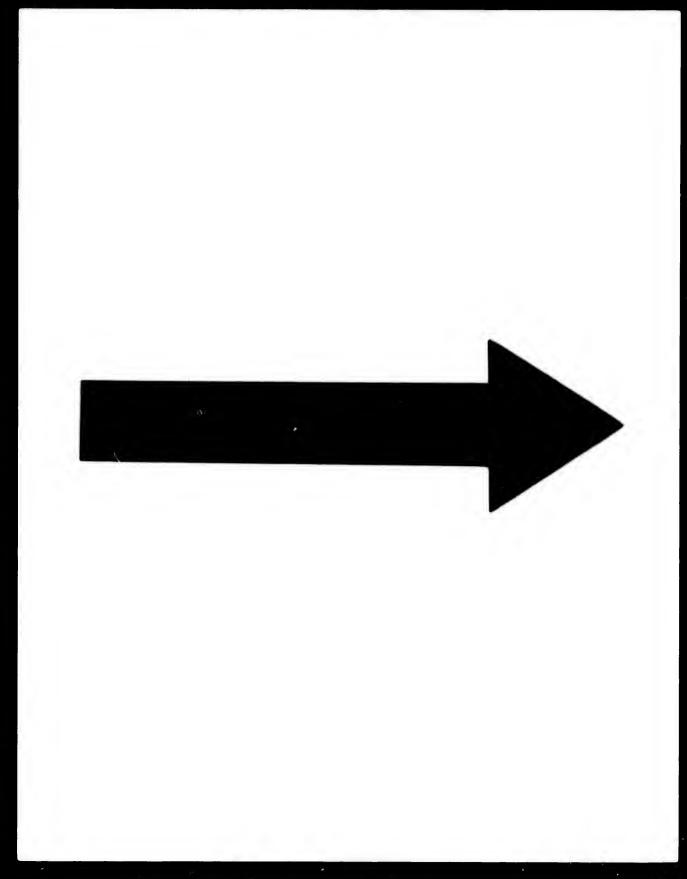
ne Ravens the Some of this kind have their Wings spotted eth in the Air ith white and black, like the diving Pigeon; bung Lumbs; Water sticketh to their Feathers, no more Birds; he seed an to a Swans; they are most of them like le, whereof he fair on a very thick Skin: Their Tail is short.

g as ones Ham. They are very much like a Swallow in their hape; I took them at first to be Swallows. for afraid of his hey fly like them; they are in great flocks to-when they are ether, as the Swallow are when they are about e) then he his shide themselves against the Winter.

I believe dot They go wabbling from fide to fide, as the ney have a very divers do; they cry very loud Rottet, tet, tet, oppose and news, tet, at first high, and so by degrees lower, do not matter and lower; and this their calling or crying is rir Meal for he occasion of their Name. They make more about the sa toise than any other Bird, because their Voice He flyeth constant the same of them, although they cry lower; water, but dot he Burgermeister, Ratsher, and the whole shot one before the of Birds to Spitzbergen strike in with y of July. You hem, so that one can hardly hear another's words.

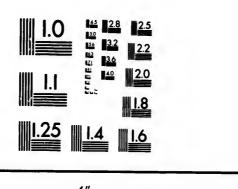
The calling or crying of the Rotges amongst one another founds almost, at a distance, as if 1011 hear a great many Women scolding togemight be rathe ther: They are somewhat bigger than a Star-Bill is crooked ling.

They



M25 M24 M26

IMAGE EVALUATION TEST TARGET (MT-3)

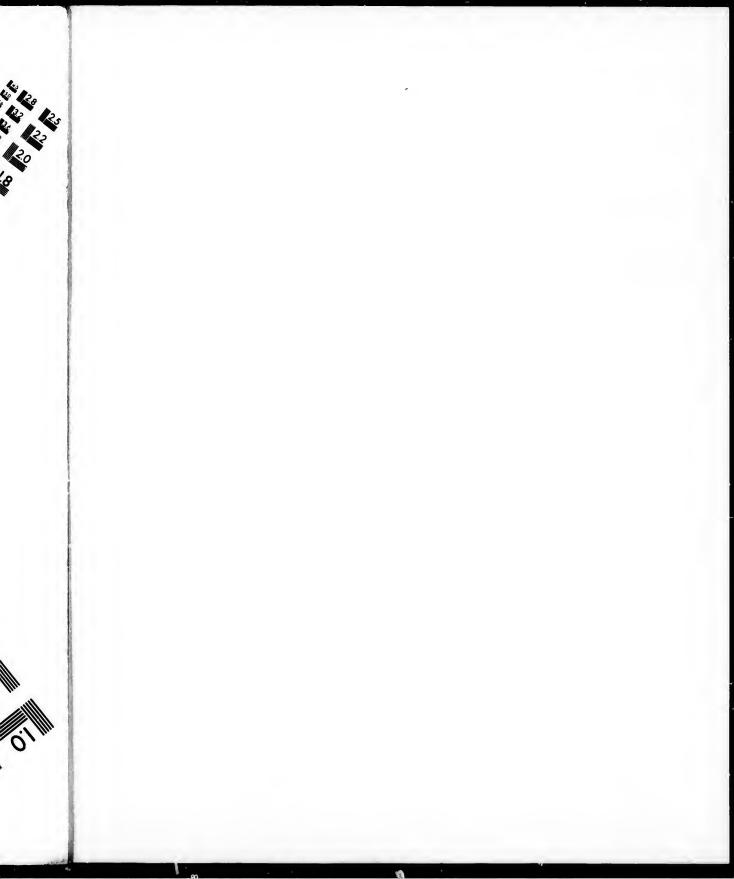


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92

They are very good Food, and the best not the Strandrunner, are sleshly and fattish; who boys and then roast them. In Tab. M they at mark'd with h.

VII. Of the Struntjager ( or Dung-hunter. )

This Bird hath a Bill somewhat blunt before and crooked, and is thick; if I remember, is black.

He hath but three Claws, which are joing together with a black Skin; his Legs aremovery long; his Tayl, which is like unto a Fan hath this mark, that one Feather thereof stand out before all the rest: He is black on the tog of his Head: His Eyes are black; about he Neck he hath a dark yellowish Ring or Circles his Wings as well as his Back, are Brown, underneath his Belly he is white; he is somewhat bigger than the Mew called Kutge-gehes; he hunts and slies in the Air after the Mew Kutge gehes, so long torments her, until she avoided her Dung, on which this Bird seeds, which he catches

Voyage
he Clifts of the

fome make the ntains, of Mos killed abundana ks. They fee

e like Crawfill : They also e e got the first o

ay of May, an itzbergen.

nd the best ner

Dung-hunier.)

nat blunt befor I remember, i

which are joing his Legs are no like unto a Fan

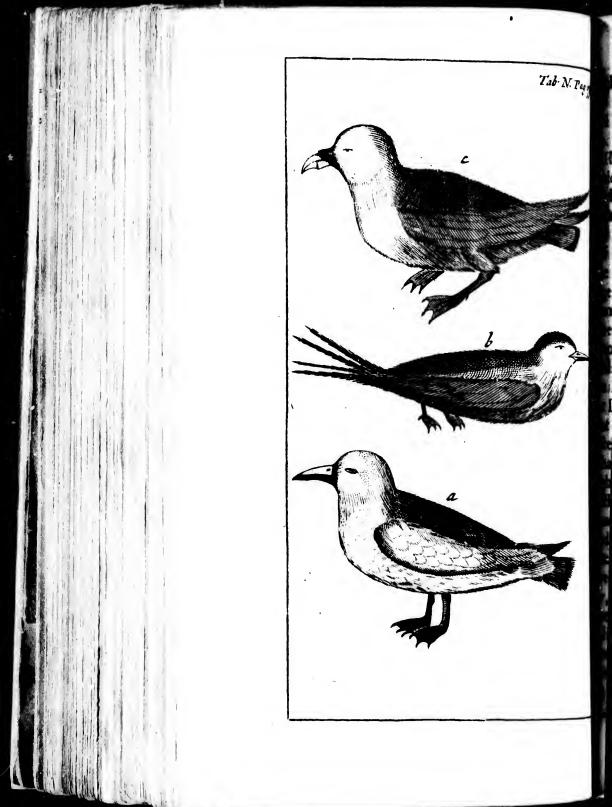
like unto a fail er thereof stand lack on the to

lack 5 about his Ring or Circles

are Brown, unhe is somewhat

Kutge-gehef; bithe Mew Kutgentil she avoidet

feeds, which he catches



to Spitzbergen.

Tab. N. Page

hes dexteroully before it falls down into Water; and this is the reason why they him Strunt-jager, in English the Dunghun-

le flyeth with the Mews called Kutge-gehef, ch do not fear him in the least, and they both equally swift in their flying, but when ntends to make them dung, he hunts them makes them cry out very loud, but he himseldom cries: He generally keepeth but to Mew, but if two or three of the Mews be ther, and one makes her escape from him, he hunts the other two, and flyeth somees above and sometimes underneath them. buld never see him hunt after any other s, but once I saw him fly after a Mallemuck, I saw him soon leave her, perhaps because Dung did not please him. I am of opinion this Dung, because it is thin, serves him ad of Drink, for else he eats the Fat of the le for his Food: He builds his Nest not very

le goes upright upon his Legs, like the Bureister, Rhatsher, or Kutge gehef. It is a rare , and I saw but very few of them: He flies monly alone; I saw very seldom two or of them together; he flies like the Rhator like a Crow, but his Wings are somewhat pointed at the ends.

e hath a loud Voice, when he cries it ds as if he did say, I Ja. To some it see-, if it be at a distance, as if he cried, Jo han. Flesh is not better than that of the other

Birds

# The Fourth Part of the Voyage

Birds of Prey. I got on him the 11th of 3 near to the Dear-haven, or Dear-bay, in Spitch gen; afterwards I saw this Bird behind Scotla hunt after the new Kutge-gehef. In the Table it is marked with d.

### VIII. Of the Diving Parret.

This is commonly called the Parret. Amon all the web-footed Birds, that have three Ch this hath a peculiar Bill; and because it see to those that gave him this Name to be that of a Parret, therefore they called him a Parret; but in truth his Bill is not at all that of a Parret, its Bill is broad, and fit flender strokes of several colours, viz. I White, and the broad part thereof is but the uppermost as well as the undermost both pointed; the uppermost arch is red, his upper Bill hath a thin bended Hook: undermost hath a yellowish arch, and is wards the end downwards cut off fome stoaping: The upper part of its Bill, as we the lower part, is about three fingers broad, about the same length, if you measure them and undermost together: He hath on the per Bill four arched or bended oblong p holes, and on the lower he hath as many though the furthermost is not altogether plain.

These holes or pits of the upper and so Bill make together a Half-moon; and these that are elevated make in the same manner

the Voyage

to Spitzbergen.

ear-bay, in Spirit ird behind Scotla ief. In the Tab

2g Parret.

he Parret. Amon at have three Ch nd because it see s Name to be

the undermost

nded oblong piggiure.

im the 11th of as the pitted or hollow ones, a Halfon.

by these holes are as many raised or elevaparts; the uppermost of them is as broad the three furthermost ones together, and h underneath on each side a longish hole ich without doubt are his Nostrils: but the dermost on the under Bill is about a Straws adth broader; the upper broad part is blackand sometimes blew.

On this broad part of the upper Bill that is s elevated above the rest, is towards the Eye they called him ong whitish piece of Cartilage that is full of sill is not at all les, whereon you see towards the inner part s broad, and the Mouth something like a Nerve, which colours, viz. I reacheth towards the under part, and there et thereof is blandeth it self, whereby the Bill is opened and

oft arch is red, His Feet have also but three Claws, joyned bended Hook; tha red Skin between them, with three short s cut off some a red colour; he walks wabbling.

of its Bill, as we About his Eyes he hath a red Ring, and above e fingers broad, as Ring stands upright a little Horn, and unu measure the meath the Eyes lyeth another little, longish, e hath on the ck Horn cross over; as you may see in the

ne hath as many, His Tail is short: The Head is black at the not altogethat punto the Horn; but his Cheeks are white; out his Neck he hath a black Ring; all his he upper and look and Wings also, at the top or the outside, oon; and thep black but undearneath the Belly is white. the same manner they fly either singly or by pairs, and have Marp

## The Fourth part of the Voyage

there pointed Wings like the Lumbs. He was keep a great while under Water. He eats is the rest, red Shrimps or Prawns, small Fish a Worms, and also the Sea-spiders and Start for I found something in his Stomach that leath like pieces thereof, but they were always digested.

He hath more Flesh upon him than the ving Pigeon, and is very good to eat. In saw him among the Ice. This whereof I saw you the draught was shot at Schmerenberg Spitzbergen, on the 20th day of June, but all wards we got several more. In the Tab.

see d.

### IX. Of the Mountain-Duck.

Hitherto we have described the web-soo Birds that have three Claws that are not dided, that I saw and got about Spitzbergen must now describe those that have undivided the with four Claws, whereof I sound the sorts, viz. the Mountain-Duck, Kirmen, a Mallemucke.

The Mountain-Duck is a kind of our wind Duck, or rather wild Goose, for she is of bigness of a midling Goose, and is more like Goose about the Bill. It is a very handsome Bird, because of its delicate spotted Feather They dive under Water as other Ducks of The Drake hath black and white spotted states, and the Duck hath Feathers of the lour of a Patridge. The hindmost Claw

## the Voyage

to Spitzbergen.

e Lumbs. He w ater. He eats ns, fmall Fift ders and Starf Stomach that lo they were alm

on him than the od to eat. In his whereoflh of June, but an eled the Edder-down. . In the Tab.

ain-Duck.

ed the web-foo s that are not di bout Spitzbergen: at have undivid reof I found the ick, Kirmen, 1

le, for the is of s a very handso

bro

had and short, with a short Nail; the Tail bobb'd, like that of other Ducks. nothing in their Maws or Gizzards that uld make me certain of their Food, but only nd-stones. They fly a great many of them flocks like other wild Ducks; when they do any Men, they hold up their Heads and make ery long Neck. They make their Nests upon low islands; they make them of the Feaers of their Bellies, which they mix with Moss; at Schmerenber these are not the same Feathers which are

We found their Nests with two, three, or fur Eggs in them, the most whereof were rotn when we came to Spitzbergen, but some of em were good to Eat, they are of a pale en, somewhat bigger than our Duck-Eggs, e Seamen made an hole at each end, and for w the White and the Yolk out, and strung eshells upon a Pack-thread. I would have ought some of them to Hamburgh, but they gan to stink, so that I was forced to sling em away, although the Shells were entire. nese Ducks have a very good Flesh, we boy!'d kind of our windroasted them as we did the other Birds, but e fat of them we flung away, for it tasted of , and is more literain-oyl, and made us vomit.

The Ships that arrived at Spitzbergen before us

other Ducks These Mountain-Ducks These Mountain-Ducks are not at all shy, or white spotted for aid of Men, when we first arrive there, but Feathers of the derwards they grow quite wild, so that you hindmost Claw in hardly come near enough to shoot them.

That

## The Fourth Part of the Voyage

That which I have drawn here was shot interested South Bay (in Spitzbergen) on the 18th of Junt it is marked with c in the Tab. M.

#### X. Of the Kirmew.

The Kirmen hath a thin sharp-pointed I as Red as Blood; the thews very large, efper ally when the stands upright, because of long Wings, and Feathers of her Tail. when the Feathers are off, there is nom Meat than upon a Sparrow. It is peculiar this Bird to have very tharp pointed Win and its Tail is longer than that of a Swallo and as long as the longest Feather of the Win Because of these long and sharp-pointed H thers in her Wing and Tail, she might w properly be called the Swallow-mew, but it commonly called Kirmen from its Cry. I Claws, as well as the Skin between them, an Red as Blood; the Nails are black on all four Claws; the hindmost Claw is very litt The Legs are short and Red: It shews w brisk and pert when it stands upright on The Head at the top is Black, like Legs. Black Cap; the fides of the Head are Sm white, and the whole Body is of a Silver lour, or white enclining to grey; the Wi and Tail are white underneath; one fide of Feathers of the Wings are black. All the differing colours, together with the Bloods Bill, red Legs and Feet make her very beau ful: Her Feathers are thready or hairy;

e Voyage

re was shot in the 18th of June 1.

ew.

harp-pointed by very large, especially at, because of her Tail, he there is no me

p pointed Win hat of a Swallo ther of the Win harp-pointed Rill, the might willow-mew, but it com its Cry. I

tween them, and reblack on all the law is very littled: It shows we have

nds upright on op is Black, lik ne Head are Sm y is of a Silvert

grey 5 the Winth 5 one fide of the black. All the

with the Bloods ke her very bear ady or hairy;





fies fingly, for fo I faw her always in the South Haven, and in other places, where we were. Where their Nests are they fly in great numthese they make of Moss. One can harddiffern their Eggs from their Nefts, for both them are of a dirty white, but the Eggs have lack specks; they are of the bigness of a Pion's Egg; I eat of them at Spitzbergen, and and them very good, they taited like the lowings Eggs; the Yolk was Red, and the hite blewish; they are very tharp-pointed at end. She defends her Nest and Eggs, and s directly at a Man, biting and crying. It is same with her as what we say of the Laping; she endeavours to defend all the Meaw, and vet cannot defend her own Nest.

brought about thirty of their Eggs with me Hamburgh, but they were rotten and stunk. It kind of a Hawk, and throws her telt into the

ater as other Mews do.

lam of an opinion, that she feeds on the small y Worms, and perhaps on Shrimps and wns, for I found no other Food they could

hot but one fingle Bird of them flying, hich I did not eat of, because the large shot

torn it very much.

This Bird is quite grey in our Countries, which fers much from that of Spitzbergen, whose there are much finer. That here delineated, thor, by the Birds Song in Spitzbergen, on 20th of June. See it Tab. N. at b.

XI. Of the Mallemucke,

This Bird hath a remarkable Bill, which severally divided: The uppermost Bill has next to the Head oblong and small Nosting underneath them groweth out as it was at Bill, that rises up, is crooked and very the

pointed.

The under part of the Bill confifts partly four pieces, two whereof meet in a point gether downwards, the other two gape upwards the two undermost that meet in a point, exactly with the point of the upper Bill. hinder Claw of the Feet of this Bird is small, of a grey colour, and so are them Claws and the Skin between them. is somewhat broad, the Wings are longish the manner of the Kirmen. They are not ways of the same colour; some are quite go which we take to be the oldest, others are on their Back and Wings, but their Head Belly are white, which are the young on This is generally thought, but I am of opini that this difference of colour proceeds m from a difference in kind than from a differ in age; for the grey ones I only faw about § bergen, but the grey and white ones, althou have seen some few of them at Spitzbergen, we saw abundance more about the North and also about Hitland and England. Hel like a great Mew, hovers near the Water will very small motion of his Wings.

he Voyage

nucke.

table Bill, which
permost Eill he
nd small Nosth
ut as it was an
ed and very she

ill consists party neet in a point two gape upware et in a point, a e upper Bill. I of this Bird is a d so are the of en them. The l

They are not one are quite good, others are good the young on it I am of opinion from a differently saw about spring the good of the good

e ones, althous at Spitzbergen, out the North ( England. Hell if the Water will ngs.

to Spitzbergen.

They do not avoid a Storm as our Mews do. at they take good and bad together, as it hapens; ours bend themselves like an Ear of arn with the Wind, which the Mallemucks not: They do not much care for diving, when they wash themselves they sit upon Water, and put their Wings a-cross one over other: They fly fingly; when they go to up they wabble a great way before they can le themselves upon the Wind, but the Lumbs d Parrets that have but small Wings do it When they ran upon the Deck of the ore. p, they could not fly up before they came to place where a step went down, or from some vantageous rise. They flock in great nums when we catch Whales, and light down on the live Whales, bite them in their Backs, d pick out great pieces of his Fat, even when is yet alive, and when we cut up the dead hales, there came so many of them about us. at we could not imagine from whence they uld all come, so that we were forced to kill em with Sticks and with broad Nets in Frames. chas they use in the Tenis-Court, to be rid of em: They are so bold, that they would not away, although they faw us come upon em, but suffered themselves to be killed in eat numbers, which we hung upon the Tackle our Ship.

But after they began to be more shy of us, id would not stay so long. They slock in so eat numbers after the Whales, that many of them are discovered by them; wherefore I fan-

H 3

cy,

cy, that he flings up some fat when he blowsh Water out, which the Mallemucks eat. But great many more, when the Whale is wounde follow the bloody track left in the Water, he then they are numberless. They also often do cover a dead Whale, and so we get them some times without any great trouble.

His Name is given him, because he is so so rmad (which the Dutch call Mall) to so himself to be so easily killed, whereunto is a the word Mucke, which signifies a Gnatt, cause they are as numerous as Gnatts; so the Name Mallemucke signifieth as much as so

Gnatts, or mad Gnatts.

They eat so much of the fat of the What till they spew it up again, and tumble the selves over and over in the water until they mit up the Train-oyl, and then they begin eat afresh, until they grow weary of eating. They bite one another, and fight togeth which is very good sport, about a piece of selectly, although there is enough for them and to spare.

When they are full they rest upon the law Water. I really believe it is the most desoring Bird of all, for he eats till he can stand longer, but falls down. He bites very has but the Burgermeister bites yet harder, whom he submits himself, and lies down believe whom to be bit by the Burgermeister, which does very severely, yet the Mallemucke set little or nothing of ir, his Feathers are so this

ough for them

when he blows hich I conclude, because he is not easily shot, mucks eat. But will endure a great blow; nor is it easie Whale is wounded kill him with a Stick at one blow. When in the Water, the ey steer themselves in the Water with their ney also often a gs, they have continually an eye upon their we get them sometey, yet they mind both the Man and their cause he is so set up so soon or swift but you may have all Mall) to set up so soon or swift but you may have whereunto is and of all you see in Greenland; they cry all nifies a Gnatt, gether, and it sounds afar off as if they were as Gnatts; so bogs. He walks but ill upon the Land and has much as he, like a Child that just learns to go, but understands better to fly; you see him at of the What ways near unto the surface of the Water, for and tumble the is very light. Of all the Birds of Prey, I ater until they lieve, he hath the least Meat on him. then they begin silds his Nest high on the Mountains, yet not weary of eating very high as the Burgermeister, yet it was not fight together high for me, I could not come at them. out a piece of Bas Breast and Legs only are to be eaten, they tough, and taste strong of Train-oyl; when ou will eat them you must hang them up by est upon the see Legs, that the Fat of the Whales, or the is the most deve tain-oyl, may run out of them, for two or ill he can stand ree days, and that the Wind may blow thro e bites very havem, and the Frost pierce them also; then yet harder, but lay them into fresh Water, that the rankd lies down bei s may be drawn out, afterwards boil and meister, which them in Butter. They are every were seen Mallemucke to the North Sea, as I have said before, yet they athers are so thid differing. This that you see here I did design ong the Ice the first of June. Tab. N. at c.

CHAP.

#### CHAP. III.

Of some other Birds that I did not call or delineate.

Mongst these are the Red Gees, which we shown unto me as they were flying: The are Geese with long Legs, that Fly in Flow there is many of them in Russia, Norway, a

Futland.

Then I saw another Bird Flying singly in broad Feet, a very handsome Bird, called it of Ghent; it is as big as a Stork, and of same shape with white and Black Feathers; hovers in the Air, and moveth his Wingst very little; when he cometh to the Ice he is back again. It is a kind of a Hawk, and I have for he shoots down from a great height into Water. They say, that the Brains of this are in great esteem, but for what I could in learn.

He is also seen in the Spanish Sea, and et where in the North Sea, but most common

he is seen where they catch Herrings.

I was also informed, that a Black Crown seen in Spitzbergen; other Birds are not there, except it may be now and then a sin one that strays and so cometh thither, as Crow did. All these Birds come at cent

to Spitzbergen.

III.

I did not cal

Gees, which we were flying: The ulsia, Normay,

Flying fingly w Bird, called %

a very tharpfig now not. reat height into Brains of this B

vhat I could no

is Sea, and ex ut most common errings.

a Black Crow

mes, and abide at this place as long as the Sun ines; afterwards, when the Cold begins to ecrease, and the Nights lengthen, every one of them returns to its own place again. When ey are going from thence they gather all tother, and when they are all met they fly away. very kind by themselves, which hath been ery often observed: Whence I conclude they nnot live in this intolerable cold place in the inter. They rest as well upon the Water as lat Fly in Flow Land, (and when they fly up they look ainst the Wind) for else they would quite be ed in this long Journey.

Whether the Men called Rathshur, that does ot love the Water, performs its Journey in Stork, and of the day, I cannot tell; or whether Necessity

Black Feathers; Sompels him to rest upon the Water.
Veth his Wingsham Which way those Birds that have divided to the Ice he was laws on their Feet, as the Snite, the Snow-Hawk, and Ihard, and the Ice-bird, get over the Water, I

### CHAP. IV.

Of the Four-footed Creatures.

I. Of the Hart or Deer.

Birds are not he HIS is not very unlike unto the Hart, it wand then a fine hath cloven Feet like it, and its Horns eth thither, as the east olike unto a Hart or Elke; they have some at centure or four branches on each side, which are about

about two inches broad, and about a foot low their Ears are long, and Tail very short: He of a greyish yellow colour, like an Hart or Da When they fee a Man they run away; if w stand still they stand also, then you must mediately fire at them if you have a mind hit them. They eat the Herbs and Grass, The are every where about Spitzbergen, but about all in the Rene field (or Deers-field) that he its Name from thence, where they'r very ple tiful, and also upon the Foreland near the Mal Haven. I never faw them swim in the Wan As I was informed, some Men did kill 15 or of them on the Vogel fong (Bird-fong) them thereof roafted is of a very pleasant tafte: killed some of them presently, at our first an val in the Spring, that were very lean; when fore we may conclude, that they remain in the barren and cold Countrey of Spitzbergen Winter long, and are contented with whath can get. See Tab. O. at a.

### II. Of the Fox.

Between our Foxes and those of Spitzberg there is no great difference; one of them I is run by our Ship, very near it, his Head we black and Body white: They make such a noise as afar off it sounds as if a Man laugh'd. If aw them also run on the Ice. Their Food is but short there, they live upon Birds and Egg

be Voyage

very thort: He un away; if w hen you must in u have a mind s and Grass. The

bergen, but abou s-field) that had

ird-song) theme leasant taste: W

, at our first an ery lean; when

of Spitzbergen i ed with whatth

to Spitzbergen.

about a foot low. They go not at all into the Water; we were nting one of them in the South Haven, and se an Hart or Do d surrounded him with Twenty Men, the ater was on one fide of him, and we endeaured to drive him into it, but he would not, t jump'd through one Man's Legs, and run up o the Mountains, where we could not folw him.

The Ships Crew inform'd me, that when he they'r very ple hungry he lies down as if he was dead, until and near the Man see Birds fly to him to eat him, which by that wim in the War ck he catches and eats. But I believe that this did kill 15 or Fable. Tab. O. fee b.

## III. Of the White Bear.

These Bears are quite otherwise shaped than hey remain in the offe that are seen in our Countrey; they have of Spitzbergen ong Head like unto a Dog, and a long Neck, d they bark like Dogs that are hoarse, and all heir whole Body is much otherways shaped han ours. They are senderer in the Body, nd a great deal swifter.

Their Skins are brought to us, which are ose of Spitzberg sy comfortable to those that travel in the one of them I inter; they prepare or dress the Skins at it, his Head was tabergen after this manner: They heat Sawmake such a noise of, and tread these Skins in it, which sucks Man laugh'd. I the Fat, and the Skins become to be dry, Their Foodfall er the same manner as we use to take out on Birds and Egg ots of Fat out of sine Linnen or other Clothes, hen we hold it against the Sun: They are of fame bigness as ours, great and small: Their

Their Hair is long, and as soft as Wool; the Nose and Mouth are black before, and the Talons also black: The sat of their Feet meted out, is used for pain of the Limbs; it is to given to Women in Travail, to bring among the Child; it causeth also a plentiful Sweet The said Fat is very spongy, and seels meters fost; it is best to try it up there presently: strove to keep it until I should come home, he it grew sowl, rancid, and stinking. I believe to the try it up with one root, for then it would remain the longergous and sinell well.

The other is like Suet when it is tryed up. becometh thin like Train-oyl, or the fi of Whales: But this is not to be compared the other for Vertue and Goodness, it is of used in Lamps, where it does not stink much as the Train-oyl: The Skippers mel out there, and bring it home with them to it for Train oyl. Their Flesh is whitish Fat, like that of a Sheep, but I did not care try how it tasted, for I was afraid that Hair would turn grey before its time, for Seamen are of opinion, that if they eat of it makes their Hair grey. They fuckle the Young with their Milk, which is very will and fat, as I observed, when we cut up and fuckling She one. They fay our Bears have very soft Head, but I found the contrary these at Spitzbergen, for we struck them w large and thick Cudgels, upon their Her with fuch blows that would have knock'd dol

ft as Wool; the before, and the before, and the before their Feet me he Limbs; it is a lit, to bring awa plentiful Sweet, and feels we there presently: d come home, beinking. I belief

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does not stink he Skippers melt with them to be established that at I did not care was a fraid that are its time, for they suckle the stine of the s

They fucked to which is very which is very which we cut up and your Bears have not the contrary the fruck them who where knock'd down a find the contrary the con

Bullock, and yet they did not matter it at all. hen we had a mind to kill them, we were reed to run them through with our Launces.

They swim from one sheet of Ice to the other, ey also dive under Water, when they were at e side of our Long-boat, they did dive, and me up again on the other. They also run upthe Land. I did not hear them roar so as

rs do, but they only bark.

We could not discern the young ones from e old ones, but only by the two furthermost ng Teeth, which in the young were hollow hihin, but those of the old ones were close and lid. If you burn their Teeth, and powder em, and give them inwardly, it disperseth agulated Blood. The young ones keep conantly close to the old ones; we observed that o young ones and an old one would not we one another, for if one ran away, it turn'd ck again immediately as foon as it did hear e others. as if it would come to help them. he old one run to the young one, and the oung one to the old one, and rather than they ould leave one another, they would fuffer themlves to be all killed.

They feed upon the Carcasses of Whales, and car them we killed the most: They also eat len alive when they have an opportunity to after them: They remove or roll away the ones of the burying places, open the Cossins, and eat the dead Men, which many have seen, in we can also conclude it from hence, betwee sind the dead Mens Bones lye by the

Coffins

Coffins that are opened. They also eat Bird and Eggs. We kill them with Guns, or an other way we can. We caught three of the one whereof I drew after the Life, on the ra

of July.

What becometh of these Bears and Foxer is the Winter-time I do not know, in the Summe they have in some places, for a sew Month Provision enough, but in the Winter, when the Rocks and Hills are covered with Snow there is but very little to be had for them; where is supposed that the Deer stay also the all Winter long, I believe that these Beasts at the same. Tab. O. see e.

### IV. Of the Sea-dogs, called Rubbs and Seales

I have still two more Beasts to describe, the live as well in the Water as on the Landan Ice, and they have also on their Feet five Cla like Fingers, that are joined together with thick Skin, like unto the Feet of a Goose: Il molt known of these is the Seale, which the also call Salldoge and Rubbe, in the Germ Language; the Head thereof is like unto Dog's Head, with cropt Ears: Their Head are not at all alike, for some are rounder, an others longer or leaner: be hath a Beard about his Mouth, and Hair on the Nose and the En lids, yet seldom above Four: the Eyes are ver large, hollow, and very clear: their Skin grown over with short Hair: they are of fer ral colours, spotted like Tygers, some are blad

to Spitzbergen.

the three of the Life, on the 131 ears and Foxes in the Summer a few Month of Winter, where with Snow and for them; proper stay also the hat these Beasts

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Rubbs and Seales

ts to describe, the contract the Landan eir Feet five Clarater with the confection of a Goose: The Seale, which the contract is like unto the confection of the Landar rounder, and the Landar rounder rounder

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Nose and the Ege
the Eyes are ver
ar: their Skin t
they are of ser

ers, some are blat

h white spots, some yellow, some grey, and ers red: Their Teeth are sharpe like a Dogs, rewith he can bite off a Stick as thick as sam: On their Toes they have black, g, and sharp Nails or Claws; their Tail is t; they bark like hoarse Dogs; their little young ones mew like Cats; they go lame ind; they can climb upon the high Ice, reon I saw them sleep, chiefly when the shined, wherein they take great pleasure, when it is stormy weather they must march and leave it, for the Waves of the Sea beat a great violence against it, as if it were instructed as I have mentioned already in Chapter of Ice.

We saw most of them upon the Ice about West side near to the shoar, where there an incredible number of them, that if the ter of a Ship should not catch Whales each, they might lade their Ship with Seales 1; and we have Examples that little Ships etaken their Lading only of them, but it is troublesome to flea them: Nor are they alike Fat at the time when we arrive

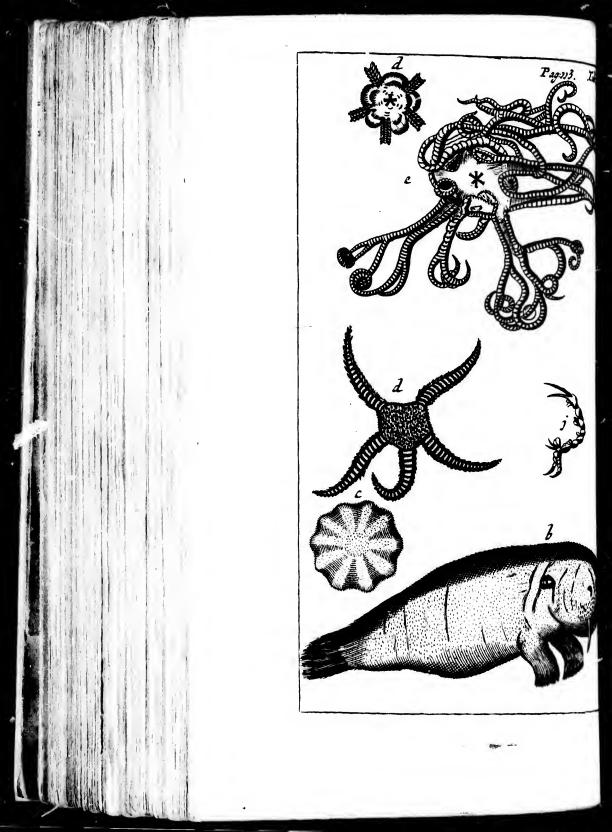
d of them there is plenty of Sea-hroses, ere many Seales are seen, that is not a good e to catch Whales in. It seemeth as if they e but very little for the Whale to live upbecause there is so great a number of them, y seed upon small Fishes, as far as I could enstand; we cut open several of them, and found

found nothing in their Stomachs but great long whitish Worms of the thickness of little Finger. We come up to them where lye upon the large sheets of Ice; we me great noise with houting, which assoni them perhaps, or else out of novelty they up their Noses very high, and make a Neck, as our Grey-hounds do, and bark this fright of theirs we strike them with pikes, or long Poles upon their Nofes, knock them down half dead, but for all they recover themselves, and rise again: of them stand upon their defence, bite at run after the Men, and they run as fall Man, and their lame way of going doth hinder them at all, for they shove them along just like an Eel: Some run from the to the Water, and leave a yellow Dung be them, which they squirt out at their Hun as the Hern does: They flink naturally ab nably. Others stand in the Water with their Belly, and look about them to see wh done upon the Ice: When they are going dive under the Water, they hold up their fes, and make a long Neck: When they from the Ice under Water, and also when make a dance of Seales, as they call it, the Ships, they constantly dive with Heads under water. They have their you ones by them, one whereof we took away us to the Ship alive, but it would not eat thing, but did mew just like a Cat, and touch'd him he would map at us, so we'll

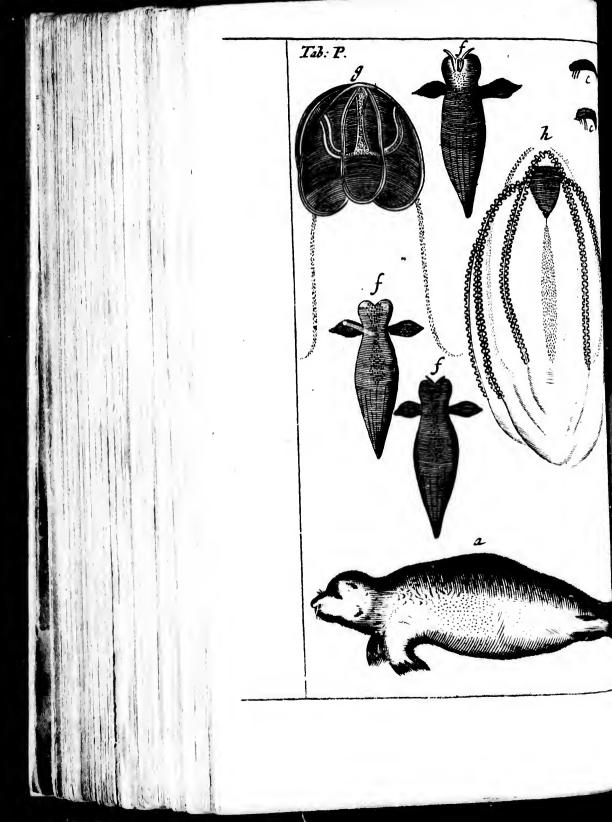
the Voyage achs but great ne thickness of to them where of Ice; we make which aftonia f novelty they and make al do, and bark te them with n their Nofes, d, but for all the nd rife again: 8 efence, bite at, they run as fall of going doth ey shove thems ne run from the ellow Dung be ut at their Hum nk naturally abo he Water with t them to see wh en they are goin hold up their k: When they , and also when s they call it, ly dive with y have their yo

f we took away
it would not eal
like a Cat, and if
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In







m. The biggest of them that I have seen ere from five to eight foot long, out of which ecut to much fat, that we filled half a Barrel thit. He that I have drawn here was eight ot long. Their Fat is about three or four ngers thick, it covers the Flesh just under the in, and we do flea it off as a Skin: This Fat elds the best Train oyl; the Flesh is quite black. hey have abundance of Blood, as if they were ly filled up with it. They have great Livers. lings, and Hearts, which we eat after we vedrawn out the rankness with Water, we il them, but this Dish is very loathsom, so at I could not eat it, it tasted so of Train-I. He hath a bundance of Guts, which are ry fmall: I found no Fat within them; their rts of generation is a hard Bone, like unto at of a Dog, about a span long, covered with news; fome were hardly fo long as your little ger, and yet they were not young ones other. The Crystal of their Eye is not of the me colour always, for fome were like a Cry-**11.** others white, others yellowish, others eddish; they are bigger than a Pea; if one will kep them he must let them dry gently, or one ay wrap them in Linnen Rags, and fo y them in a moist place, for else they fly or ack to pieces. I am informed, that when ey couple they are very fierce, fo that a Man res not come near thom upon the Ice, then ey bring their Long boats near the Ice, and kill them out of the Boats. They do not wickly due when the Blood is almost all run OUS

out, after they have been mortally wounded and flea'd, they still live, and it looks ill to ke them tumble themselves about in their own Blood. We had an Example of that in ha that was eight foot long, for when he was flat and most of the Fat cut off, notwithstanding all the blows he had had upon his Head and Nose, he would still snap at us, bite about he and took hold of a short Pipe with his Ten after fuch a rate, as if nothing ailed him. The we run a short Pike through his very Heart and Liver, and there ran out as much Blood as it had been a bullock. The Matters of the Ships will not fuffer these nasty doings in the Ships, for it fouls them mightily. Not only this was so vivacious, but all the rest are the fame, for when we thought that they lay da in our Long-boats, they fnapt about the fo that we were forced to kill them.

For Sports-sake I went once along with the upon the Ice, and run one through the Bod with my Sword several times, which he do not matter at all; I fell into the Snow upon my Knees, and he barked at me, and offer to bite me, which I avoided, and when ly up again I ran after him, and gave him seven Wounds more, which he was not concerned but ran swifter than I could, and slung hims off from the Ice into the Sea, and were done to the bottom. Tab. P, see a.

nortally wounded d it looks ill to ke out in their own le of that in his vhen he was flead , notwithstanding oon his Head and is, bite about him oe with his Teen ailed him. Tom

his very Heart and

ll them.

V. Of the Sea-horse, called by some the Morse.

The Sea-horse, is not unlike unto the Seale in the shape of the Body, only is much bigger than the other: He is as big as an Ox: Their Legs are also like those of the Seale, for they have five Claws as well on the fore as the hinder Feet, but they have only short Nails: Their Head is thicker, and rounder, and also much ftronger: Their Skin is an inch thick, chiefly much Blood as about the Neck, covered with short Mousene Matters of the coloured Hair, fome reddish, some grey, some fty doings in the have but little Hair, and are mangy, and full ghtily. Not only of Scarrs that are bitten, and look as if they all the rest are the were slea'd; every where about their Joints that they lay deal their Skin is full of Lines, as the infide of a Man's napt about the Hand: They have two great and long Teeth in their upper Jaw-bone, that hang down bece along with the low their under Lips, that are about a foot through the Bol and two foot long, fometimes they are longer: nes, which he do The young ones have no great Teeth at all, to the Snow up but they grow in time as they grow older. All t me, and offer the Sea-horses have two firm long Teeth; yet d, and when Ight I have feen old ones that had but one; it may id gave him fever be that fometimes they loofe them when they s not concerned fight, or otherwife they may fall out of themand flung him felves, for I observed that some of them had a, and went don foul, hollow, rotten Teeth. These two long Teeth are esteem'd beyond Ivory, because they are fo very white, and are dearer; they are close and firm within, and heavy, but the Root thereof is hollow. Of their Teeth are made Knife-I 2

Knife-hafts, Boxes, &c. The Jutlanders make Buttons for their Cloths of the other Teeth Their Mouth is very broad before, like a Bul. locks, whereon grow above and underneath feveral Brittles that are hollow within, and of the bigness of a Straw: Of these Brissles the Seamen make Rings, which they wear on their Fingers for the Cramp. Above the uppermole Beard they have two semicircular Nostrik whereour he blows the Water, like the Whale vet with a less noise. Their Eyes are at a good distance from the Nose; they have Eyelids a other fourfooted Beafts have; his Eyes are m zurally as red as Blood when he doth not tun them, and I could fee no difference when ther were moved, for they always turn their Eys when they did look upon me, and then the look much uglier, tho' they are never handlom Their Ears are somewhat higher than the Eyes but very near to them, which are like thosed the Seales. Their Tongue is at least as big ass Neat's, when it is but newly boiled it may be eaten, but if it is laid by for two or three days it becomes rank, like Train-oyl. Their Ned is very thick, wherefore he does not readily turn his Head about, and this is the reason wh he turneth his Eyes generally. Their Tailsan fhort, like those of the Seale.

From their Flesh we cut no Fat, it is a mixt together like unto Hogs-flesh, to whichi is the likest: Their Heart and Liver we di eat; they taffo well enough, chiefly where w have no great variety of Dishes. Their Yard ve the uppermol ircular Nostrils yes are at a good

Jutlanders make are of a hard Bone, about two foot long, thick he other Teeth the horrom, and less before, somewhat bent efore, like a Bull in the middle, at the fide to wards their Belly it and underneath is flat, but it is round without, and it is every within, and of where covered over with Sinews. They turn nesse Brissles the 160 Knife-hafts and other things out of this Bone. ey wear on the What their Food is I cannot certainly tell, they may perhaps ear both Herbs and Fish; that they eatHerbs, I conclude from hence, that their Dung like the Whale looks like Horfe-dung: That they eat Fift I ludge, because when we cur the Fat off a Whale, have Eyelidsa one of them did often take the Skin with him his Eyes are my under Water, he did also sling it up, and catch he doth not tun tagain. The Burgermeister doth eat his Dung, erence when they as is faid before when I writ of the Birds. turn their Eys Sea horfes keep generally about Spitzbergen, for e, and then they among the Ice-hills I saw none. They lye upon to never handlom the Ice, as I have already mentioned in the First ner than the Eye, Part, by the 12th of July very nastily, as the Seales are like thosed in great numbers, and roar most rerribly. They at least as big as dive with their Head under the Water before, boiled it may be like the Seales. They sleep and snore, not only wo or three days apon the Ice, but also in the Water, so that we yl. Their Ned take them several times for dead ones.

does not readily to They are very flout and undaunted Creasis the reason with tures, they stand by one another as long as Their Tailsas they have Life, and if any of them be wounded they make to the Long-boat, notwithilanding no Fat, it is a that the Menstrike, and cut, and push at them; sless, to which to me will dive under the Water near unto the nd Liver we de Long-boats, and cut holes in them with their chiefly where we great Teeth under Water; and others, without es. Their Yard any fear at all make to the Boat, and fland up

with half their Body out of the Water, and

endeavour to get into the Boat.

In such a Battle a Sca-horse did once strike with his Teeth or Tashes into the Boat, and took hold of our Harponics with his long Tooth, between his Shirt and the Waistband of his Breeches, so that the Waistband broke, other

wife he had pulled him under Water. When they roar, if they are imitated, the Arive which shall get underneath the Water and fall a fighting and biting one anotherd they fetch Blood. Others strive to stat libert the Sea-horses taken by the Men, striving be fore each other to get to the Boat, biting and gnashing with their feeth, and roaring terrible They never give over follong as one of the is alive; and if you are forced to fly, because their unspeakable number, they will follow the Boat till you lose them out of fight, for that cannot follow far, their great number hindring one another. This we found by Weihegal b Spitzbergen, where they got together in gra numbers, and made our Boat take in Wall fo that we were forced to flee, yet they for lowed us as long as we could fee them, on the 12th day of Juli. We take them only forther Teeth: You shall see almost a hundred of the before you find one that hath good Teeth, it fome of them are but small, others have be one, and others none at all.

I saw one in the English Haven lying of sieet of Ice; at first we took him to be a saw but we found it was an old, bald, and many

the Water, auf

did once strike
te Boat, and took
his long Tooth,
Waistband of his
nd broke, other
Water.

re imitated, the eath the Wate, one another the veto fet at liberty Men, striving by Boat, biting and I roaring terribly as one of them I to fly, because by will follow the of fight, to the

number hindring to by Weihegat by together in great take in Wata

flee, yet they for the them only for the

a hundred of the 1 good Teeth, it 1, others have be

Haven lying on thim to be a Sea bald, and many

Sea-horfe. We gave him some blows, which he took, and dived under Water. When they fee them lye upon the Ice, or hear them roar. they row with their Boats to them, where they lyein great numbers, but I believe one of them keeps watch, for I have faveral times observed that one of them did strike him that was next to him with his Tooth, and fo it went on: When they awake they rife up and frand upon their fore-foot, look terribly, and roar, and frike with their long Teeth into the Ice for madness, and so draw themselves along by the help thereof, when they run a-pace, or climb upon the Ice, as the Seales do. Their greatest frength lyeth in their Head, and their Skin is thickest about the Neck, it is thicker than that of an Elk, and it is also a great deal firmer; wherefore if they were dreffed like an Elk's Skin, they would ferve instead of the best Buffcoat. When great multitudes of them lye upon a sheet of Ice, and they do awake and fling themselves into the Sca, you must keep off your Boat at a distance from the Ice, until the greater part of them are got off, for else they would jump into the Boat to you, and overfet it, whereof many Instances have been; then the Harponier runs after them on the Ice, or he dares his Harpon out of the Boat at the Seaborse, who runs on a little until he is tired, then the Men draw on the Rope or Line again, and letch him to the Boat, where he begins to relift to his utmost, biting and jumping out of the Water, and the Harponier runs his Launce inro.

to him till he is killed. When they dart the Harpoon at them, they always take the opporrunity to do it when he is precipitating himeli from the Ice, or when he diveth with his Head under Water, for then his Skin is smooth and extended, and therefore the Harpoon flrikell through the Skin on his Back the better; but when he lyeth and fleepeth his Skin is loofe and wrinkled, to that the Harpoon does not pierce the Skin, but falls off. The Harpoon for a See borf, and the Launce also are short, of the length of one span, or one and a half, and an inclithick, and the wooden Staff thereof is about fix foot long; the Harpoon for a Whale is much 100 weak to pierce his thick Skin withal, ve both of them are very well temper'd, and of good tough Iron, and not much hardened When the Sea borfe is killed, they take h Head only and leave the rest, this they carry of board, where they cut out the Teeth, the Ewo great ones belong to the Owners or Me chants of the Ship, but the small Teeth are m effeemed. I cannot but mention that we won by a Field of Ice, where to many Spa-hories ly that the weight of them made the lee en with the Water, but when they were jumpe off into the Sea, we could hardly step out ! our Boat upon it. so high was it risen cut & the Water. It was related to me, by that time used this Greenland Trade every Year. a certain Truth, that once when they had a good fortune to catch Whales, they rowed wit their Boats to the Minfs Island, which was to

n they dart the s take the oppor. cipitating himself th with his Head in is fmooth and Jarpoon Briketh the better; but Skin is loofe and n does not pierce Harpoon for a are fhort, of the d a half, and and ff thereof is about a Whale is much Skin withal, ye temper'd, and much hardened , they take h this they carry of the Teeth, th Owners or Men all Teeth are no ion that us wen any Spa-hories la ide the ke eve iev were jumpe

irdly step ents as it risen outs

to me, by that de every Year a

hen they had a

they round was to

of Sea-horses, they ventur'd upon them couragiously with cutting, striking, pushing, and
shooting, so that they killed a very great many
of them; but when they saw that still more
and more of them got together, they laid the
dead Sea-horses round about them, and stood in
the middle of them, as in a Castle, leaving a
place open where-the others might come in to
them, as through a Gate; and after this manner
they have killed several hundreds of them, and
made a good Voyage of it; for some Years ago
their Teeth have been in greater esteem than
now. The Figure of this Beast you may see in
the Tab. P. marked with b.

### CHAP. V.

Of the Crustaceous Fish that I observed.

Found two forts of them, viz. Crawfish and Starfish; of the Crawfish I saw sour sorts, the Sea-spider, as the Frenchmen call them, the red Prawn, the small Prawn, or the little small Shrimp, and the Whale's Louse.

The Starfish I put to them also, because they have their Arms or Legs, wherewith they move themselves, and are incrustrated with Shells.

I. Of the Sea Crawfish without a Tail, or Sea Spider.

This fort of Cramfish has no Tail, but fix Feet They are also very like Lob. and two Claws. flers in the shape of their Body. They are of a dark brownish colour, somewhat privally on their Backs, and hairy all over their Bedi. I have feen many of this kind with fix Feet and two Claws, in my Voyage to Spain, whereof J have also made a draught in my Voyage mo Spain, (which I shall, God willing, communicate to the Curious) but they differ from their of Spitzbergen, in their Bigness and Head; this of Spitzbergen hath a Head like a Lobiter, but the male of them that I faw in my Voyage to Spain, made with its Head and Toil juil the shape of a Lute. I did not eat any of the Svitzbergen Sea Crawfish, neither have I drawn them at Spitzbergen for want of time, for I thought to have them brought along with me, but they were carried away by the Rats. Igot them in the English Haven, on the 19th of Jun, T afterwards faw them in the North Sea, not far from England, where we bought from the Hilgeland-Fishermen a great Tarbut, in whole Sromach we found a Sea Crawfith two foant long when its Feet were spread out.

### II. Of the Garnels or Frawns.

Betwist our Prawns and those of Spitcherges is no difference, only that those of Spitcherge

a Tail, or Set

vil, but fix feet very like Loh. They are of a har prinkly on their Bedy. I ith fix Fuct and pain, whereof I ny Vovage into ling, communiliffer from thek and Head; ths a Lebiter, but rinv Voyage to d Tail wil the at any of the r have I drawn of time, for I along with me, lie Rats. Cut ne 19th of June, North Sea, not ought from the ibut, in whose that two fear out.

rawns.

of Spitzbergs of Spitzbergs are red before they are boiled. Their Head is reculiar, confifting of two parts, with feveral Horns; the whole Head is broad, at the end of the Head are the Eyes, which fland out as Crawfishes do; he doth not look downwards, but streight before, and sidewards. The Scale of his Back is like a Back-piece of Armour, which also behind the Head, in his Neck, is fomewhat bended in, and behind it, is a Prickle. After that follow fix Plates, like the Armour for the Arms and Legs, and about the Brims thereof are finall black spots, as if they were the Nails of the Armour. These Plates Ive exactly round one upon the other. The Tail confifteth also of five parts; when he expands it, it is like the Tail of a Bird. He hath two Claws before, the further part whereof looks fomewhat like the Phangs of a Tooth-drawer. He hath 18 Legs, whereof those that are nearest to the Claws are the shortest. The first eight Legs have four Joints, whereof the uppermost is the longelt, and the undermost the shortest: They are not hairy at all. The ten hindmost Legs, whereof the furthermost are the longest, and the uppermost Joint is much thicker and shorter, than the lowermost long ones have but two soints, the Feet whereof are somewhat bended under, and are hairy. On these hindmost and undermost Joints grow out two shoots below, on the rest but one. He shoots very fwiftly along in the Water. He was as big as I have delineated him, according to the Life. They are Food for the Birds, as I have mention'd Ш before.

III. Of the leffer Garnel or Shrimp.

I have also taken notice, in my Voyage to Spitzbergen, a fort of Shrimps that are like Worms, the Head thereof is like the Head of a Fly if hath on the foremost part of its Head two Horns standing out; it hath Scales like the Ho. loufe; its Back is round, and broad downwards: it hath 12 Legs; on each fide of the foremost Scale it hath three Legs; after you have told four Scales more, there is on each fide three Legs more; they are no bigger than I have drawn them. The Birds eat them as their best Food, being always in great numbers in those places where these Worms were. I found great plenty of them in the Danish Harbour, between and underneath the Stones in the Water; afterwards on the Eighth of July I found them in the Mussel-haven. I have also found them in the Seed of the Whales that fwam upon the Water. See o in the Tab. P.

#### IV. Of the Louse of the Whale.

The Whale's Loufe hath no refemblance at all to our Lice, except in the Head, and therefore it belongs rather to the Crustaceous Animals. Their Scales are as hard as those of the Prayms. They have a Head like a Louse, with 4 stores the two short Horns that stand out before have two knobs, like Kettledrum-sticks; the two other bended Horns are sharp before. Its Head hath

or Shrimp.

n my Voyage to t are like Worms; ead of a Fly; it its Head two ales like the Hop. oad downwards: of the foremost er you have told h each side three ger than I have hem as their besthumbers in those e. I found great arbour, between ne Water; after. ound them in the und them in the upon the Water.

e Whale.

efemblance at all d, and therefore accous Animals of the Prawns, with 4 Herns; out before have s; the two other Its Head bath

almost the shape of an Acorn, is cut very deep behind. It hath two Eyes, and but one Nofril. The Neck is not made of stiff Scales, but its Skin is like that between two Scales or Plates of a Lobster. It hath fix Plates on the Back; the foremost of them is shaped like a Weaver's Shutle. The Tail might be comparedunto a Shield, but it is very short. On the foremost Plate it hath Feet shaped like a Sythe: they are round before, and bent, like the first Quarter of the Moon; but on the infide they are toothed like a Saw, and at the end thereof there is a sharp point: On each side of the second and third Plait grow out four Legs that are his Oars; they have a short Joint below, wherein these Oars are moved; these they lay in a cross one over the other, upon their Back, when they feed upon the Whale; or they put them upwards together, as the Vaulters do when they jump over Swords: The fix hindmost Legs are like those of a Crawfilb; they have three Joints on each Leg, the foremost whereof are crooked like a Half-moon, but before, or on their ends they are very marp pointed, fo that they can take firm hold as well of the Skin of Men as of that of the Whale, so that you must cut them in pieces before you can pull them from the Skin. He that will have them alive, must cut the Skin of the Whale out with them. They fit on certain places of the Whale's Body (as between his Finns, on his Pudenda, and on his Lips) where he cannot eafily rub himfelt, and but pieces out of his Skin, as if the Birds had catten him. Some

Some Whales are full of Lice, and others have never a one: The warmer the Weather is, the more Lice they ger, as I am inform'd. The F. gure that I give you here I delineated in the Mul. fel-haven, on the 7th of July. See Tab. Qata

## V. Of the Starfish.

I have feen but two forts of these in my Vor. age, the first of them hath five Points or Rays like Legs; it is quite otherwise shaped than those that I have seen in the North, Spanish, and Mediterranean Seas. It is of a red colour: Above upon the plain of its Body it hath five double rows of sharp knobs or grains; between each of these double rows is a fingle row of the same knobs on the whole plain, so that in all there is 15 rows of knobs on the whole plain. There 15 rows together make a Star of five outward bended points.

As for the rest, this Plain looketh like the Back of a Spider, but if he is turned he looketh neatly, and in this Polture is feen in the middles five-corner'd plain Star; which I take to be its Mouth, which he can open and draw together like a Purse. Round about this Star are small black Spots, in rows, of the shape of a Star. Further forwards, about the middle Star or his Mouth a broader one is, like unto the Flower of the Crowsfoot. From the middle Star proceeds five Legs or Arms, which have no knobs where they begin, but begin first to have some behind the Flower like shaped Star, on both sides to

and others have Weather is, the prm'd. The Fine ated in the Mus. See Tab. Qata.

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looketh like the urned he looketh in the middlea I take to be is ad draw together is Star are finallinge of a Star. Furdle Star or his to the Flower of the Star proceeds no knobs where two fome behind on both fides to

the end. The knobs between the Legs are fost to the touch, like the Skin of an Egg. Their Legs are scaley, about three singers breadth long, broader at their beginning, where they have knobs, and afterwards by degrees they grow narrower. Between the Scales on both sides the Knobs come out commonly three or sour together, and look like Warts. When he swims in the Water he spreads out these Knobs on each side, just as a Bird doth his Feathers when it is going to sly. See Tab. P. at d.

Of the Second Starfish.

Besides this, another fine Star-sist came to my Hands, which rather ought to be called the Coralfish, because he is like Twigs of Coral, for which I took them also, before I perceived that he was alive. This is of a brighter colour than the other, for the other is dark red. Its Body hath ten corners, and it hath a Star above with as many Rays; each of these one may compare unto a Sail of the Windmills that the Children run against the Wind withal, or to a piece of fuch Crosses that are broad before, and narrow where they meet together; that is to fay, of the shape of a Dove-tail: It feeleth rough: The lower part of the Body is very neat; in the middle thereof is a Star with fix points, which I take to be his Mouth: About the Mouth he is fost, to the place where his Legs begin: Between the beginning of his Legs he had fost Cavities. His Legs are where they begin thick, and

and have in the middle a longish hollow or gue. ter, which feeleth fost; on the Brim they are adorned with Scales that lye one over the other, no otherwise than if they were a row of Coral but underneath the Scales are twifted, and have in the middle forwards fmall black Strokes. but the Scales live over one another like unto the Plaits of the Crawfilb: Besides, where the Legs come out of the Body, they spread them. felves double into Twigs, and are, as is faid before, hollow in the middle, until the place where they divide themselves into several Branches, and to grow flenderer by degrees. The undermost small Branches are scalevall round, but not twifted like Ropes; they are sharp pointed on their ends like unto the Feet of a Spider, wherefore the Seamen call them Sea-spiders. When they swim in the Water they hold their Legs together, and to ther row a long. I had one of this fort that was a fpan long, from the extremity of one For to the other; but this I have defineated is less The biggest are the handsomest for colour They dye foon after they are out of the Water, and when they are a dying they bend their Legs towards the Mouth. The Body, when it is dead, foon breaks to pieces, which is the reason that I could not keep the great ones See Tab. P, at e. Rondeletious, in his Book of Fish, hath delineated one of the same shape but this is not the same species, for his is black; neither do I find the Plaits in his, or cept he that drew it did not observe them e Voyage n hollow or gur. Brim they are over the other. a row of Coral twisted, and Il black Strokes. nother like unto ides, where the ey spread them. l are, as is faid until the place es into feveral rer by degrees. es are scaley all lopes; they are e unto the Feet amen call them m in the Water er, and to they is fort that was nity of one Foot delineated is less

Some of both these forts I got on the fifth of July, before the Weihegat, where a Whale made his escape from us, because the Line whereunto the Harpoon was fasten'd was entangled about a Rock: On this they hung, and to I got them alive.

#### CHAP. VI.

Flore I come to treat of the Whale, I think it convenient to fay fomething of some Finn'd Fishes, which I met withal in my Voyge to Spitzbergen, some whereof are propagated by the shooting of their Row, and others bear and bring forth young ones alive.

I will begin with the First kind, whereof the fiff that I met withal was the Fish that we call

Macarel.

Some

### I. Of the Macarel.

mest for colour This Fish is like unto a Herring in his shape, out of the Water, but harh on his Back a large Finn, and fome they bend their what below it a very small one. Then lower here is another greater and broader one, but sees, which is the out so high as the uppermost: Undearneach this the great ones refive small ones, that are all of the same big-ones, in his Book ess, and at an equal distance one from ano-f the same shape her. Very near to the Tail there is another ecies, for his har ess one; so that on the whole Back there is Plaits in his, the wo great ones, and feven little ones. Near tobserve them into the Gills is a Finn on each side: Underneath neath the Belly there are again on each fide one almost of the same bigness of that that is near to the Gills. Underneath towards the Tai is one of the fame bigness of the third on the Back. Behind this there are again five of a equal bigness; and below that Itill a less one fo that those of the lower part of the Back an equal to those of the lower part of the Belli Their Head is like unto that of a Herring. H hath a great many small holes on the Cover of his Gills, and also under neath the Eyes. The have a great variety of colours, that look mor glorious when they are alive than when the are dead, for when they are a dying the colou fade and grow pale. From his Back toward the Side he hath black Stroaks. The uppe most part of his Back is blue till to themi dle, and the other half underneath it is gree and as if fome blue did shine through it. U derneath his Belly he is as white as Silver, an his Funs are whire every where. All the Iburs of this Fifn shine like to a Silver or G den Ground, done over with thin, transpare or illuminating colours Their Eyes are bla It is the beautifullest Fish of all that ever Isl This that I describe here was catched int North Bea; afterwards, on the 27th day Time, in the Year 1673. we did catch to Macarels behind Sovitand, by the Hland St Ailda, which were half blind; it is occa ned by a black Skin that groweth over the H, es in the Winter, and cometinost again

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on each fide one hat that is near wards the Tai the third on the again five of are till a lefs one of the Back are part of the Belly

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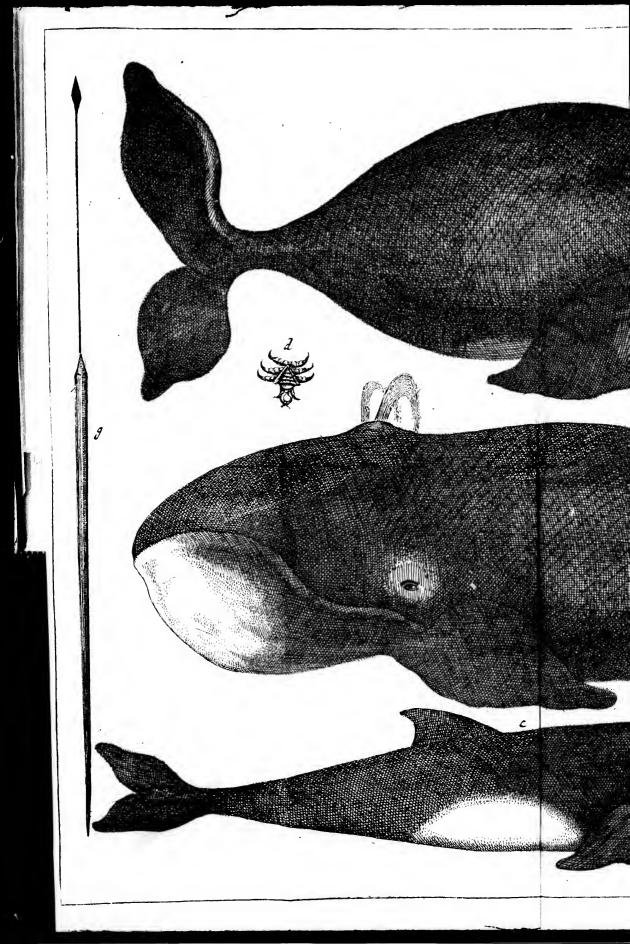
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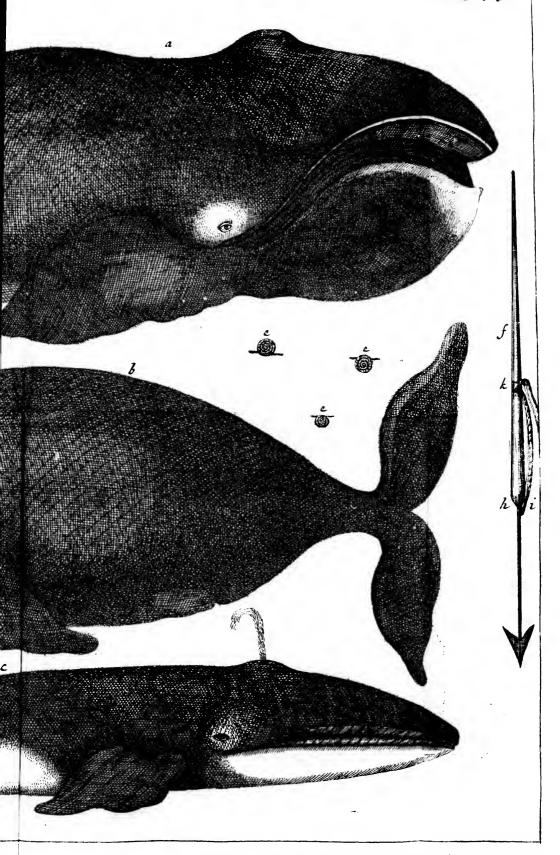
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the beginning of the Summer. We do not fee them in the. Winter, for they run towards the North: In the Summer we fee them in the North Sea, and I have feen them also in Seain. We caught them after the following manner; we faftened a Bullet that weighed about two or three pounds to a Line, about a Fathom distance from the end, whereon we had fattened a Hook; this Hook we baited with a piece of a red Cloth, and fo we flung it into the Sea, and towed it behind our Ship, then when the Macarel doth swiftly shoot at it, he bites upon the Hook, and fo is hung, which you prefently perceive by its pulling, as you do when you carch any other Fish, notwithstanding that the Rope of its own accord doth pull or draw very hard, by reason of the Sea, so that if you should rowl it about your Hand, it would benumb your Hand in a little time to that degree, that you would not be fenfible, if one should cut it; wherefore they tye their Ropes to the carved Work on the Stern of the Ship, fo that sometimes many of them are tved to the Ship by one another, when the Ship fails apace, but this doth hinder the Ship very much in its failing, and I dare fay two fuch Ropes draw as much as a Man's Stength. They cutch them also with Herring, with a piece whereof they bait the Hook, at which they bite fooner than at a red piece of Rag or Cloth. They cat belt if you boil, or broil, or roalt them fresh as they are caught, or dry them: They are hard to be digered.

### 11. Of the Dragon-fish.

Is is peculiar to this Fifh to have two Finas on his Back, the foremost whereof he haven long Strings, about two inches high bove the Back; the hindmost Finn of the Back is not for high, but yet it goeth a great way all along the Back, and hath no fuch Strings. He hath no Gills, in the room of them he hath two blowing holes in his Neck, and on each fide of their holes there are two fort Finns, and underneath these, on each side a broad one: Underneath his Belly he hath a long very narrow Finn, that reaches to the Tail. His Head is oblong, compos'd of many Bones: He hath before on his Nose a rais'd part: His Tail i about an inch broad: His Body is long, thi and roundiff, of a greyish filver Colour, and shining: His Shape is likelt to that of a young Hay, as well the Head as the rest of the Body. They are caught between the Bears-Island and Snitzbergen. We got one off of Hitland, when our Cook flung out his Bucket for Water, in which he took up one with some small Fish of the shape of an Herring, but they were not bigger than a joint of your little Finger. Our Seamen informed me of fome other small Fish, that area the deep holes between the high Mountains, in the South Fieren.

fifh.

have two Fins nereof he 's very high bave the ie Back is not for vay all along the s. He hathno hath two bloweach fide of these and underneath ne: Underneath arrow Finn, that l is oblong, comth before on his i about an inch nd roundish. and thining: His ing Hay, as well Body. They are id and Spite bergen, when our Cook ier, in which he Fish of the shape e not bigger than Our Seamen inl Fish, that area

gh Mountalies, III

#### III. Of the Dolphin.

This is also a common Fish, because we see them in great Numbers, every where in the Sea, chiefly before a Storm or hard Weather, for then they jump in great Numbers out of the Sea, like Sealis. The Head of it, chiefly the Nofe, is very like that of the Place's Hend. In Mouth is full I little tharp Teeth. He hath a Finn on the in . dl of his Back, which is hollow'd out towards the Tail, like an half-Moon. On its Belly are two Finns, like those of the Whale; these Finas are nor like rlem of small or little Fishes, that are boney, join'd together with a thin Skin, but they are all over flefhy, and covered with a think Skin, and made of jointed Bones within. The Tail is broad, and of the fame shape as that of the Whale, but it is not cut in, and is crooked from one end to the other, like a Sickle. He hath two small round Eyes. The greatest part of the Body is of a black colour, but the Belly is white; they are five or fix Feet long. They run very swift against the Wind, as an Arrow: They are generally caught by chance. Because Figures thereof are in other Books, I did not think it convenient to delineare him.

IV. Of the Butskopf, or Place's Head.

The Butskopf's Head is blunt before, whereon is a Bill or Beak of an equal biguefs all along, K ? which

which diffinguiftes him from the Dolphin which is the cher behind, and more pointed be fore. The Finns are like those of the Dolphin but the foremost on his Belly are liker those of the Whale; its Tail is also liker a Whale's. He hath a Spout hole above in his Neck, whereou he mours the Water, but not with fuch a through, nor fo high as a Whale doth. There is alto a difference in the found of the Fishes, for this, when he bloweth out Water, makes but a finall noife, but the blowing of a Whale rearcth that you may hear it afar off. His Eve are very finall in proportion to his bigness. I have teen them fixteen, eighteen, and tome times twenty foot long. Their Back is of a bic was colour; the Head brown and marbled; underreach their Belly they are white. They run very near unro the Slaps, to that one may puffine them with a Stick, and they keep in sei ha Shaw for a long time, which other files do not, for when they fee the Ships they are fraid of them. They all fwim against the Wind, as Whales, Finn-fift, and Dolphins. Tan of epinion, that they endeavour to run away from the Storm, and that they find fome Pan or only in their Bod'es force Days before, to you fir. I de lome l'ish tumble about itames In the Water, which I do not take to be plate, and this priem I'v returnues until the and more contracted to a ceater. We law w

eland a capture differe, that might right and is quite to "

m the Dolphin, nore pointed bee of the Dolphin are liker those of r a Whale's. He Neck, whereout not with fuch a ale doth. There d of the Fishes, t Water, makes wing of a Whale far off. His Eyes to his bigness. I iteen, and lone heir Back is of a wn and marbled; re white. , to that one may and they keep up chich other falls e Ships they are wim against the d Dolphins. Iam our to run aday

ey find tome Pan Days before, for le about thatman or take to he play inues until diff er. Wellow Do might rund 1 3 ad is quire half

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times higher than the other Butskopf has; they are somewhat of a darker brown Colour. but of the fame bigness. We saw them tumble several times out of the Water; one might eafily take them, because of their high Finn that stands on the top of their Back. They are not Sword-fifb, nor of the same kind we call Tum. blers, which we fee between the Elbe and the Hilgeland.

#### V. Of the White fifth.

I do not by this Name mean the Efficace call to here in our Country, that are but finall, but I mean a bigger fort, as large as a Butskoff, in shape like a Whale, and without Finns on his Back; he hath two Fins on his Belle, as I am informed by others that have caught them. The Tail is like unto a Whale's. He harh a Spout-hale on his Head; he hath also an Holici on his Head like a Whale. He is of yellowish white colcur. He hath Fat enough in proportion to his bigness; I was told by them that had caught one, that they did fill a Barrel of Fat from one; but this Fat is very folt, and the Harpoon eafily breaks out, wherefore they do not care to catch them. When we fee plenty of them, the Skippers fay, it is a fign of a good Year for catching of Whales; for, if thefe find good Food, the Whales find the fame also. We liw on the 19th of June forme hundreds of them.

VI. Of the Unicorn.

The Unicorn is but foldom feen in these parts, neither had I the good Fortune to meet with one in all my Voyage; and yet fornetimes ma nv of them are icen. I do not find that the Cuts that I have feen in some Books agree with the description that I heard thereof: for I was inform'd, that he hath no Firm on his Back, as he is drawn, he hath also a Spout-hole in his Neck. When they fwim fwitely in the Water they fav that they hold up their Horns, or rather Teeth, out of the Water, and to som great floals. The flape of their Body is lk a Sed; the undermost Finns, and the Tail, an Like unto those of the Whale. The Skin of fome of them is black, some like a grey dappled Horse; underneath their Belly they are white They are from fixteen to twenty toot lorg They fwim very fwiltly, that although they are feen, yet they are but feldom caught.

VII. Of the Saw-fish, fornetimes called the Sword-fish.

This Fish hath his Name from a Saw, which is a long broad Bone fixed to his Nose, that hath on each side many pointed Teeth or Peggs like a Comb. He hath two Finns on his Back the undermost of them is like the Butskeps the uppermost hath behind, towards the Table hollowness like unto a Sickle. Underneath has

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een in these parts. ine to meet with t sometimes ma ot find that the Books agree with nereof: for I was n on his Back, as Spout-hole in his tely in the Water eir Horns, or raer, and to go in their Body is lk and the Tail, an le. The Skin of ke a grey dappled y they are white wenty toot long although they are

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om a Saw, which is Nofe, that hath Teeth or Peggs, Jinns on his Back, we the Batskepi's, wards the Value Underneath his

Underneath has Belly

Belly he hath four, on each fide two, the uppermost thereof towards the Ilead are the broadest and longest, but the lowermost are somewhat fhorter and narrower; they fland directly underneath the uppermost Finns of the Back. The Tail is like unto a piece of Board, whereon the Dyers widen or stretch their Stockins, which is pointed behind and underneath. The Tail is not divided, &c. Towards the undermost Finn of the Back the Tail is thinner. The other Shape from the top to the Tail, is like a Man's naked Arm. The Noffrils are oblong. The Eyes fland high out of his Head. Their Mouths are just directly underneath the Eyes. They are in bigness from two to twenty foot.

These Saw or Sword-silb are great Enemies to the Whale and Finn-fish. Many of them gather about him, and they do not leave the Whale until they have killed him, then they eat of him only the Tongue, all the rest they leave behind them, as doth appear by the Whales that are killed by the Sword-fifb. I faw my felf, in our Home-voyage or Return, a flight between a Whale and a Swordfilb, where both of them made a great buille, beating and jumping about, and I understood that in calm Weather the Stamen let them alone until the Whale be killed, where they take him without any trouble. But if they fet out their Long boats after the While, they frighten the Swordfilb, and fo the Whale escapes. VIII.

#### VIII. Of the Hay.

There are feveral forts of them; they have two Finns on their Backs, the highest whereof is like to the uppermost of the Butskopf, but the lowermost is of an equal breadth at the top and bottom, but it is hollowed out like a Sickle: He hath fix Finns underneath his Belly, whereof the foremost two are the longest, and shaped like a Tongue, but the two middlemost are fomewhat broader than those towards the Tail. and of the same shape; the two last underneath by the Tail are of an equal breadth from topto bottom, fomething shorter than the middle The Tail is of a peculiar shape, like unto one half part of that of the Sword-filb, but it is fplit below; and the other part is like a Leaf of a Lilly. He hath a long Nose. The whole Fish is long, round and thin, and he is thic et towards the Head: His Mouth is flyap'd as that of the Sword-fifb; it is full of sharp Teeth, three upper and three under rows, one by the other His Eyes stand something more out before than behind, after the same fashion as those of the Swordfilb, they are oblong, and very clear: He hath five Gills on each fide, as the Samudas !! his Skin is hard and thick, and rough if you rouch it or strike it upwards; it is of a grey the colour; they are from one fathom long to three: It is a very devouring Fish, and bites great pieces from the Whale, as if they had been dua, у.

em; they have highest whereof lutskopf, but the hat the top and it like a Sickle: is Belly, where. gest, and shaped middlemost are bwards the Tail. last underneath adth from topto ian the middle fhape, like un-Sword fift, but it art is like a Leaf ofe. The whole nd he is thic est is fliap'd as that arp Teeth, three ie by the other out before than as those of the very clear: He the Sward-lib: d rough if you is of a greyish ethom long to Fish, and bites if they had been dua

dug out with Shovels. They devour of many Whales all the Fat underneath the Water, and this is the reason that the Seamen say, They have caught half a Whale that was dead. And the Birds do help them also, and what is not taken a way underneath, ferments out of the top. They have a large Liver, whereof they make Ovl. Out of their Backs we cut the Flesh, which we hang up for some days in the open Air, then we boil and roalt it, and this taftes very well, when we have nothing that is better. They do not fling away the Hays in Spain, but fell them: The little ones are the best. They are very eager after Man's Flesh, and eat many a Man that goeth to Iwim or wash in the Sea. whereof we have many Instances. They are eatily caught after the following manner; we take a great Hook fashned to a strong Iron Chain, baited with a piece of Flesh, and let it hang down into the Sca; the Hay, as foon as he doth perceive it, fnaps at it, and is catch'd; but when the Hay perceives that he is fast, he doth use his utmost endeavour to bite off the Hook, which he cannnot for the Iron.

### CHAP. VII.

Of the Whale.

HE Fish properly called the Whale, for whose sake our Shine of C whose sake our Ships chiefly undertake the Voyage to Spitzbergen, is differing from other Whales in his Finns and Mouth, which is without Teeth, but instead thereoflong, black, fornewhat broad, and horny Flakes, all paged like Hairs: he differs from the Finn-fish in his Finns, for the Finn-fish hath a great Finn on his Back, but the Whale, properly fo called, hath none on his Back; and there is two Figns behind his Eyes of a bigness proportionable to the Whale, covered with a thick black Skin, delicately marbled with white Strokes, or as you fee in Marble, Trees, Houses, or the like things represented. In the Tail of one of the Fishes was marbled very delicately this number 1222 very even and exact, as if they had been painted upon it on purpose. This marbling on the Whale is like Veins in a piece of Wood, that run freight through, or elfe round about the center or pith of a Tree; and so go both white and yellow strokes, through the thick and the thin strokes, that is like Parchment or Vellom, and give to the Whale an incomparable Beauty and Ornament. When these Fiers are cut up, you find underneath the thick Side Bones that look like unto a Man's Hand

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the Whale, for hiefly undertake differing from Mouth, which is ereof long, black, lakes, all jagged Finn-fish in his a great Finn on operly so called, ere is two Finns proportionable to nick black Skin, e Strokes, or as ouses, or the like ail of one of the tely this number if they had been his marbling on of Wood, that ound about th. o go both white the thick and

Parchment at an incomparahen thefe Flors at the thick Slaat Man's Handa

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when it is opened, and the Fingers are expanded or spread, between these Joynts there are shiff Sinews, which sly up and rebound again if you sling them hard against the Ground, as the Sinews of great Fish, as of a Sturgeon, or of some sour footed Beasts generally do. You may cut pieces of these Sinews of the bigness of your Head, they squeeze together when thrown on the Ground, and so rebound very high, and as swift as an Arrow from the String of a long Bow. The Whale hath no other Finns but these two wherewith he steers himself, as a Boat is rowed with two Oars.

Their Tail dorh not stand up as the Tails of almost any other Fish, but it doth lye horizontal, as that of the Finn-Fish, Butskopf, Dolphin, and the like, and it is three, three and an half, and four fathoms broad. The Head is the third part of the Fish, and some have bigger Heads; on the upper and under Lip are short Hairs before. Their Lips are quite plain, somewhat bended like an S, and they end underneath the Eyes before the two Finns: Above the uppermost bended Lip he hath black Streaks, fome are darkish brown, and they are crooked as the Lips are. Their Lips are smooth, and quite black, round like the quarter of a Circle; when they draw them together they lock into one another: Within, on the uppermost Lip is the Whale bone, of a brown, black, and yellow colour, with fireaks of feveral colours, as the Bones of a Finn Fish. The Whale-bones of some Whales are blue, and light blue, which

which two are reckoned to come from young Whales. In one of my Cutts here you may fee the Whale-bone in the Tab. Q marked with a In the other Cutt, where his Mout his shut up, you do not see the Whale-bone. Just before, on the upper Lip, is a cavity or hole which the upper Lip fits exactly into, as a Knife into a Sheath. I do really believe, that he draws the Water that he bloweth out through this hole, and so I have been informed also by Seamen.

Within his Mouth is the Whale-bone, all hairy as a Horse's Hair, as it is also in the Fine fifth, and it hangs down from both sides all about his Tongue. The Whale-bone of some What is somewhat bended like unto a Cimeter, an others like unto a half-Moon.

The smallest Whale-bone is before, in his Mouth, and behind towards his Throat: and the middlemost is the greatest and longest, it is sometimes about two or three Men's length. from whence you may eafily conjecture hor large this Fish must be. On one side, all in a row, there is two hundred and fifty proces a Whale-bone; and as many also on the other fide, which maketh five hundred in all, and there is more over and above this number, for they let the least Whale-bone of all remain, because they cannot well come at it to cur is out, because it is very narrow where the two lips meet together. The Whale-bone is in a flat row one piece by the other, fomewhat bended within, and towards the Lips every where he a half-Moon.

e Voyage ome from young here you may kee marked with lour his thut up, 1C. lust before. hole which the as a Knife into a hat he draws the rough this hole, d also by Sea. Whale-bone, all alfo in the Fias. th fides all abo of fome Wha. a Cimeter, an s before, in his is Throat: and and longest, it e Men's Tength. conjecture hor one fide, all in a d fifty proces cal o on the other fred in all, and his number, for fall remain, bet it to cur is out,

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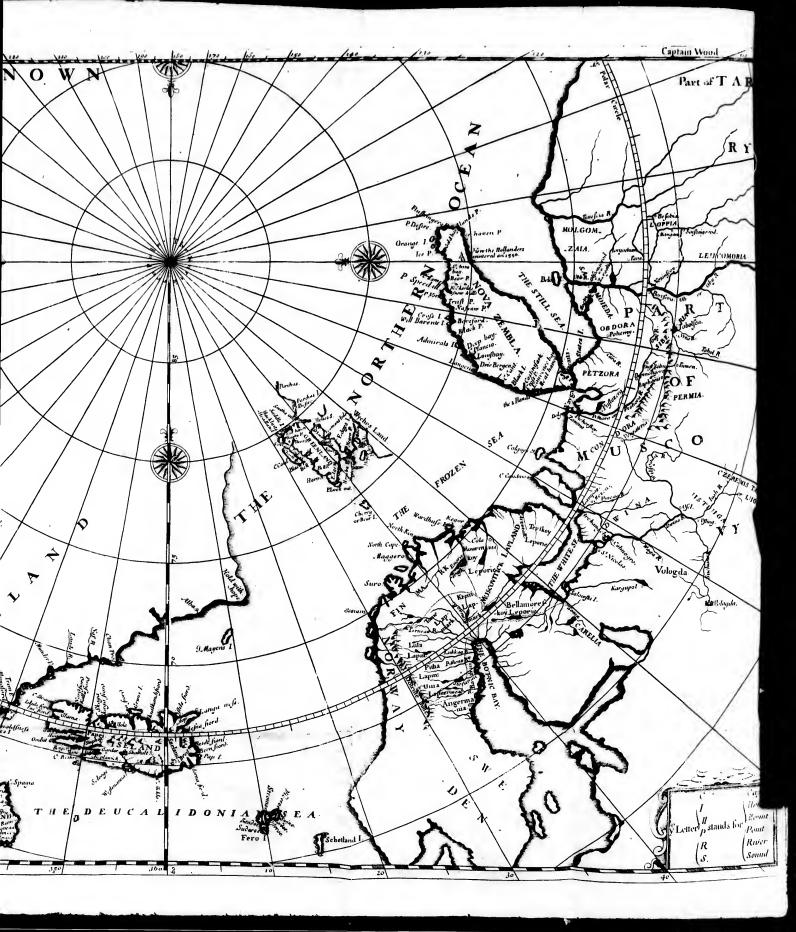
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The Whale-bone is broad at the top, where it sticketh fast to the upper Lip, every where overgrown with hard and white Sinewstowards the Root. fo that between two pieces of Whalebone you may put in your Hand. These white Sinews look like boiled Sea-catts or Black-filb (in Spanish called Cattula la Mar) they are of a pleafant Smell, fo that we might eat of them: they are not tough at all, but break as easily as Cheefe, but they did not tafte fo well: when they putrifie or rot they fmell horribly, just like unto a foul or rotten Tooth. Where the Whale-bone is broadest, as underneath by the Root, there groweth small Whale-bones, the other greater, as you fee fmall and large Trees one amongst the other in a Wood. I believe the small Whale-bone doth not grow bigger, as one might think that fome of the great pieces thereof might come out, and that fo this fmall Whale bone might grow up again in the room thereof, or as in Children the Hair grows again when cut off; but it is not so, for this Whale-bone is quite another fort, for it is from one end to to'ther of an equal thickness, and full of long Jacks like Horses Hair. The Whalebone is underneath narrow and pointed, and all overgrown with Hair, that it may not hurt that that is young: But without the Whalebone hath a Cavity, for it is turned just like unto a Gutter wherein the Water runs, where it lyeth one over the other, as the Shields or Plaits of Craw-fish, or the Pan-tiles of an House that lye one over the other, for else it might cafily

easily wound or hurt the under Lips. I am of opinion that one might use Whale-bone in any thing that we use Boards for, for they make of Whale-bone, Boxes, Knife hasts, Walking-sticks, and the like. I should think that out of the Hair of the Fish might be made something, as the Spaniards do out of the wild Sempervive Aloes (by them called Savila) they prepare it like Flax or Hemp, and so make Packthreads,

Clorbs and the like Manufactures of it.

To cut the Whale-bones out is also a peculiar Trade, and abundance of Iron-Tools belong The lower part of the Whale's théreunto. Mouth is commonly white. The Tongue lyeth among the Whale bones; it is very close tved to the undermost Chap or Lip; it is very large and white, with black spots at the edges: It is a fost spongy Fat, which cannot easily be cut; it makes a great deal of work to the Cutter (for fo they call the Man that doth cut the Fat into fmall pieces with a large Knife, which cannot well be done with other Knifes, because it is tough and fost) wherefore they sling the Tongue away, else they might get five, fix or feven Barrels of Train-oyl out of it; but, as I faid before, they fling it away, because of its foftness; and this is the most pleasing Food for the Sword filb. Upon his Head is the Hovel or Bump before the Eves and Finns: At the top of this Bump, on each fide, is a Spout-hole, two over-against one another, which are bended on each fide like an S, or as the hole that is cut on a Violin, whereout he doth blow the W.H.T

s of it.

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Lips. I am Water very fiercely, that it roars like a hollow ale bone in any Wind which we hear when the Wind blow-or they make of eth into a Cave, or against the corner of a Board, Walking-sticks, or like an Organ-pipe. This may be heard hat out of the at a leagues distance, although you do not see formething, as him by reason of the thick and soggy Air. The Whale bloweth or spouts the Water sierthey prepare it wift of all when he is wounded, then it founds ke Packthreads, as the roaring of the Sea in a great Storm. and as we hear the Wind in a very hard Storm. s also a peculiar Behind this Bump the Whale is somewhat more n-Tools belong bended in than the Finn-fish, yet when they if the Whale's swim you cannot well discern one from theother, The Tongue ly. except you observe it very exactly, for it is it is very close only the Finn on the Finn-sist's Back that di-Lip; it is very singuishes him from the Whale. The Head its at the edges: of the Whale is not round at the top, but someannot easily be what flat, and goeth down sloaping, like unto rk to the Cutter the tyling of an House, to the under Lip. loth cut the Fat The under Lip is broader than the Whale is Knife, which is any part of the Body, and broadest in the Knifes, because middle; before and behind it is something they sling the parrower, according to the shape of the Head. get five, six or hone word, all the whole Fish is shaped like unof it; but, as be a Shoomaker's Last, if you look upon it from , because of its beneath. Behind the Knob or Bump where easing Food for he Finns are, between that and the Finns, are is the Hovel or his Eyes, which are not much bigger than those ns: At the top of a Bullock, with Eye-lids and Hair, like s a Spout-hole, Mens Eyes. The Chrystal of the Eye is not which are ben-much bigger than a Pea, clear, white, and trans the hole that parent as Chrystal; the colour of some is yeldoth blow the wish, of others quite whire: The Seale's are threa I.

three times as big as those of the Whale. The Eyes of the Whale are placed very low, almost at the end of the upper Lip. Some bring along with them from Spitzbergen some Bones, which they pretend to be the Ears of the Whale; but I can say nothing to this, because I never saw any; but thus much I do remember, that I have heard them say that they lye very deep.

The Whale doth not hear when he spouts the Water, wherefore he is easiest to be struck at that time. His Belly and Back are quite red and underneath the Belly they are commonly white, yet some of them are Coal black; most of them that I saw were white. They look very beautiful when the Sun shines upon them the small clear Waves of the Sea that are over him gliften like Silver. Some of them are marbled on their Back and Tail. Where h hath been wounded there remaineth always white Scar. I understood of one of our Hat pooniers that he once caught a Whale at Spitz bergen that was white all over. Half white have seen some, but one above the rest, which was a Female, was a beautiful one; she was a over marbled black and yellow: Those that ar black are not all of the same colour, for som of them are as black as Velver, others of a Co black, others of the colour of a Tench. Whe they are well they are as flippery as an Ed but one may stand upon them, because they a fo foft, that the Flesh thereof giveth way too weight: And the outward Skin is thin, lil Parchment, and is easily pulled off with on Han

The Hands when the Fish grows hot. I know not ry low, almost whether the Skin is thus burnt by the inward be bring along heat of the Fish when he lies dry a floating a Bones, which pon the Water. The Sun beams seem not to have so great power as to dry the Skin so. he Whale; but I have fo great power as to dry the Skin fo. We found our first Whale was so much heated hember, that I by his hard swimming that he stunk alive; we were deep. Sould pull of great pieces of the Skin, of the ength of a Man, which we could not do to to be struck at other Fishes that were not so much heated: Sut from Whales that have been dead some are commonly lays, and are dry, where also the Sun shines upon them, or when it doth not rain, one may just that are over the Pores of the Skin. I know not what use to Sea that are over he Pores of the Skin. I know not what use to me of them are make of this Skin, but I have seen Women tye Tail. Where he heir Flax with it about the Distaff.

one of our Hat when it groweth dry, for before there is more a Whale at Spitz lack amongst it, which makes the white shew er. Half white he better, neither doth the black look so well the rest, which ser it is dry, for it groweth then brownish. I one; she was a then you hold the Skin against the light, you was Those that are many small Pores in it, where the Sweat co-

colour, for someth through.

t, others of a Co. The Yard of the Whale is a strong Sinew, a Tench. Whend according as they are in bigness, six, seven ippery as an Ed eight foot long, as I have feen my felf. because they a where this Yard is fixed the Skin is doubled, giveth way took that it lies just like a Knife in a Sheath, skin is thin, lithere you can fee nothing of the Knife but lled off with on maly a little of the Haft. The part of Genera-Han

L 2 tion

tion in the Female is just shaped like as that of four-legged Beasts. At the sides of Pudendum stand out the two Breasts, with Nipples on them, like unto those of Cows: Some of these Breafts are quite white, some are speckled with black and blue Spots, like a Lapwing's Egg, When they have no young ones they have but fmall Breafts. I am inform'd, that when they couple together they stand upright, close to one another, with their Heads out of the Water whic feemeth very probable, because they can not keep long under Water, and chiefly in such They fay that they have but two young ones at a time, for they have nevel found more than two young ones within them How long they carry their young is not eafile determin'd; fome fay they go as long as a Cow but it is very uncertain, he that will believe i may. The Sperm of a Whale, when it is fresh fmells like Wheaten-flower that is boiled it Water, when it is still hot it is very white one may draw it out in Threads like hot Seal ing-wax, Glew, or the like; when it grower cold it turns to a Musk-colour, and smells strong and little red Worms grow in it, like untoth grey ones, that you may fee in Tab. P. mat ked with C. I have try'd feveral ways to kee this Sperm fweet and fresh, but I could neve make it like unto that Sperma-cati which th Apothecaries sell in their Shops. One may di of this Sperm whole Pails full out of the Wate for as well this as that of the Sea-horfes and Sea fwims upon the Sea like Fat, and we fee abu dand

like as that of dance of it in calm Weather, so that it doth s of Pudendum make the Sea all foul and slimy. I try'd to th Nipples on dry this Sperm of a Whale in the Sun, and it Some of these bok'd like Snot, and when the thin Slime was re speckled with dry'd away from it, look'd like to Fila meteorica, Lapwing's Egg. ave only that they are thicker and more heavy. It street they have but another parcel I boil'd in Sea-water, just as I that when they pok it out of the Water, until the Water was ght, close to one waporated from it, then I had some Sea salt, of the Water and a nasty brown Slime. The third parcel I ecause they can boil'd in fresh Water, and afterwards again in d chiefly in such sea Water, and the longer I kept it afterwards have but two the more it stunk, and the harder it grew. The hey have never ourth parcel I intended to keep in the faltnes within them Water, with an intention to carry it along with ung is not easily me to Hamburgh, but it dissolv'd in the Water, as long as a Cowike Glew, and the Water became foul and at will believe is sinking, so that I could no ways make it like when it is fresh the Sperma-cati of the Apotheraries. Where the that is boiled if and doth begin it is four-square, consisting of is very white many strong Sinews; if you dry them they are ads like hot Seal stransparent as Fish-Glew; out of these Sinews when it growet he Seamen make twisted Whips. Their Bones and smells strong re hard, like unto them of great sour-sooted it, like untoth Bealts, but porous, like unto a Spunge, and filin Tab. P. mat ed with Marrow, when that is consum'd out, eral ways to kee hey will hold a great deal of Water, for the but I could never ples are big, like unto the Wax of a Honeyva-ceti which thomb. Two great and strong Bones hold up s. One may die under-Lip, they lie one against the other, but of the Wate and both of them make a Figure like unto an ea horses and Sea dalf moon, but one alone by it self makes a Fiand we fee abuture like to a quarter of the Moon. Some of thefe dang

these Bones I saw at Spitzbergen, lying on the Ssrand, about 20 foot long, of a very white colour, as if they had been calcined. Our Seamen bring some of these along with them home, to shew us how big some Whales are, which are already whitened to their Hands, for those that come fresh from a Whale, stink abominably, because of the Marrow that is in them. Their Fiesh is course and hard, and it doth look like unto that of a Bull; it is intermix'd with many Sinews; it is very dry and lean when it is boiled, because their Fat is only between their Flesh and Skin: Some looks green and blue as our powder'd Beef, chiefly where the Muscles meet together; if one lets it lie a little, it grows black and stinking. The Flesh of the Tail boils tenderest, and is not quite so dry as that of the Body. When we have a mind to eat of a Whale, we cut great pieces off before the Tail where it is four-square, and boil it like other Meat; good Beef I prefer far before it, ye rather than be starv'd, I advise to eat Whale Flesh, for none of our Men dy'd of it, and the Frenchmen did eat almost daily of it, they fling it fometimes on the tops of their Tubs, and le it lie until it is black, and yet they eat it fol The Flesh of a Whale, as well as tha of the Seales, is alone by it felf, and the Fata the top thereof, between the Flesh and Skin It is about fix Inches thick on the Back and Be ly, but I have also seen it a Foot thick upon Fin, according as they are great or little Fift The Fat of their under Lip is thicker than tw Foo

oyage

, lying on the a very white ed. Our Seath them home, are, which are for those that pominably, bethem. Their doth look like x'd with many when it is boi-

ween their Flesh ind blue as our e Muscles meet little, it grows a mind to eat o

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Foot, and is the thickest of all the Whale. Tongue, as I have faid before, is fastned to it, but very fost, but it costs too much labour to cut it. The Fat of some Whales is much thicker than that of others, as it is with other Animals or Men, where one is much leaner than another. In the Fat are little Sinews interspers'd, which hold the Oyl, as a Sponge does Water, which one may fqueeze out: The other strong sinews are chiefly about the Tail, where it is thinnest, for with it he turns and winds himfelf, as a Ship is turn'd by the Rudder, but his Finns are his Oars, and according to his bigness he rows himself along with them as swiftly as a Bird flies, and doth make a long track in the esh of the Tail Sea, as a great Ship doth when under sail, so te so dry as that that it remains divided for a while.

The Whales of the North Cape (they are so calbefore the Tail kd, because they are caught between Spitzberpoil it like other en and Norway) being not so big, therefore do r before it, ye not yield so much Fat as those of Spitzbergen, e to eat Whale for of those of the North Cape you shall not fill 'd of it, and the above ten, twenty, or thirty Cardels of Fat; I'd of it, and the above ten, twenty, or thirty Cardels of Fat; the middling fort of those of Spitzbergen yield commonly seventy, eighty or ninety, and they are about fifty or fixty foot long. Our biggest whale was fifty three foot long, and we cut off him as much Fat as fill'd seventy Cardels; his Tail was about three fathom and an half broad. The Skipper Peter Peterson of Friesland inform'd me, that they found a dead Whale, whereof they did cut as much Fat as fill'd one hundred and thirty Cardels. his Tail was three fathoms.

thicker than twend thirty Cardels, his Tail was three fathom

and an half broad, but he was not much longer than our biggest, as one may guess by the Tail also, yet much thicker and fatter; from whence one may infer, that they do not grow much longer, but only in thickness or fatness, as we daily see: Nor did I ever hear that a bigger or better Whale was ever caught, and even those but seldom, for if there were many such, our Ships could not hold so much Fat as it cut from ten, sisteen or twenty Whales, as some of them have sometimes taken in.

Over the Fat is, besides the uppermost thin Skin already described, another Skin of about an inch thick, proportionable to the bigness of the Whale; it is colour'd according to the co. lour of the Fish; if the Fish be black, this undermost thick Skin is so; if the outmost Skin that is like Parchment is white or yellow, the thick one underneath it is of the fame colour. This thick Skin is not fliff nor tough at all, fo that one might dress it like Leather, but it dries just like unto the Fungus that grows on Elder, which we call Jews-ears, which are thick and turgid when they are green and fresh, but brittle when they are dried; whereforh this Skin is not esteem'd at all. This and the uppermost thin Skin that covers this, are the occasion that the Whale, which I take to be the strongest and biggest of all Creatures in the Water, cannot make use of his strength, because they are too foft to do much.

I have nothing to relate of the inward Parts of the Whale, but only that his Guts feem to

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t much longer ess by the Tail from whence t grow much atness, as we at a bigger or nd even those any fuch, our t as it cut from fome of them

ppermost thin Skin of about the bigness of ing to the coblack, this untmost Skin that low, the thick e colour. This at all, so that but it dries just ows on Elder, are thick and fresh, but britthe uppermost

s Guts seem to be

be of a Flesh colour; they were full of Wind. and the Dung that was within them was yellow.

The Food of the Whale, as it is believed, are the small Sea-snails, the Draught whereof you may fee at c, in the Tab. Q, whereof I have made mention in another place, which some take for Spiders; whether these afford such great Nourishment, I cannot exactly tell. Some fay, that they live only by the Wind, but then methinks they must have nothing in them but Wind, which I found otherwise. I was informed by others, that about Hitland a small Whale was caught, had about a Barrel of Herrings in The are smaller Whales than those we catch at Spitzbergen, but there is more danger in catching of them, they being less and nimbler than the great ones, to whom the Water doth not so easily give way as to these, for they jump and play in the Water, and keep their Tail commonly above Water, fo that one dare not come near to them to launce them. Concerning the Whale's Valour, we do find that he is not very couragious, according to eforh this Skin his strength and bigness, for if he sees a Man or a Long-boat, he goeth under Water, and he occasion that runs away. I did never see nor hear, that out ne strongest and of his own Malice he endeavour'd to hurt any Water, cannot Man, but when he is in danger; what then he ise they are too doth is of necessity, and then he doth not value a Man no more than a Sand, nor a Longhe inward Parts boat, for he doth beat them all into Splinters.

His

His Strength may be guess'd by the Fishermen that catch with great Nets other Fishes, when they are going to draw their Nets towards the Land, what a great Strength they must use, which is nothing at all to be compared to his Strength. The Whale doth swim sometimes away with some thousand fathoms of Rope-line, swifter a great deal than a Ship can sail, or a Bird can sly, so that it makes their Heads giddy; yet a great Ship is too many for him, for although he should strike against it with his Tail, yet it doth him more hurt than he does the Ship.

The Whales keep, in the Spring, Westward from Spitzbergen, near old Greenland and the Island of John Majen; then they run Eastwards to Spitzbergen: After them come the Finn-sish, and then there is no more Whales seen. It is probable they go after a tolerable cold place; for after that, I have seen Finn-sish in the Spanish Sea in the year 1671. in the Month of December, and in the Year 1672 in January, and also afterwards in the year 1673. in the Straights of Gibralter in March, and also in the Mediterranean.

He swims against the Wind, as all other Whales or great Fish do. The Sword-sish is his mortal Enemy, he might rather be called Comb-sish, because his long Tooth is on each side full of Teeth or Prickles, most like a Comb. In our Home-Voyage to Hamburg I saw an Example of this Emnity of a North-caper Whale and a Sword-sish, near to Hitland, they saught and struck

e Fishermen ishes, when towards the y must use, pared to his a sometimes of Rope-line, an fail, or a Heads gidfor him, for it with his

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g, Westward land and the in Eastwards the Finn-fish, es seen. It is e cold place; in the Spanish of December of December of Mediterra-

as all other vord-fish is his e called Combeach side full a Comb. In saw an Examwhale and a y faught and firuck

flruck at one another so vehemently, that the Water slew about like Dust, sometimes one, and sometimes the other was uppermost; the Weather was a little stormy, or else we had staid to have seen the end of the Battle, so we were forc'd to leave them.

The dead Whale kill'd by the Sword-fish stinks at a great distance, but not presently, and those that have been wounded some days before they are caught smell the worst, and drive high above the Sea-water, when others drive even

with the Water; and some sink.

The Whales have, as well as other Beafts. their peculiar Distempers and Ailments, but I can only write of what I know by Hear-say. An ancient and experienc'd Harpoonier informed me, that he did once catch a Whale that was very feeble, and that all his Skin, but chiefly near unto the Tail and Fins, hung like Films, as if they were old Rags dragg'd along behind him, and that he was quite lean, fo they made but very little Train-oyl of his Fat, for the Fat was quite white, and light withal as an empty Honeycomb. Before a Tempest they beat the Water, that it doth fly about like unto Dust, with their Tail; but they have the greatest strength when they strike sidewards as if they did mow, fo that one might think that they were in a great agony, and a They are mightily tormented by the Lice, whereof I have treated more at large above: The Draught of this Loufe you may see at d, in the Tab. Q. Th

The Wounds that are given unto the Whale by the Harpoons, into the fat, heal up again of their own accord, for the Salt-water cannot slick on it. Many such Fishes are caught that have been struck by others with a Harpoon, and are heal'd up again, and so have white Scars.

#### CHAP. V.

How they catch the Whale.

Irst, it is to be observ'd, that when its like to be a good Year to catch Whales in, there is many white fift to be feen before: But where we see many Seales, there we do not expect to meet with many Whales; for they fay, that they eat up the Food of the Whale, wherefore the Whales will not stay in such empty places, but go to find our better, and so come to Spitzbergen, for there, at the Shoar, we see great plenty of the small Sea-snails (you may see them mark'd with e in the Tab. Q) and perhaps some other small Fish. They are caught after the following manner: When they fee Whales, or when they hear them blow or fpout, they call in to the Ship, Fall, fall; then every Body must be ready to get into the Long boat that he doth belong to, commonly fix Men go into every Long-boat, and fometimes feven, according as the Long-boats are in bigness, they oyage
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t when its like hales in there e: But where not expect to hey fay, that ale, wherefore empty places, come to Spitzwe see great (you may see (Q) and perney are caught Vhen they see blow or fpout, #; then every the Long-boat ly fix Men go netimes seven, bigness, they all

all of them row until they come very near unto the Whale, then doth the Harpoonier arise, who fits always before in the Boat, where the Harpoon, or the sharp Iron made like unto an Arrow fixed to a Stick, doth also lie on the foremost board of the Long-boar, which the Seamen call the Staffen, that is, the broad piece of Wood that cometh up before the Boat from the bottom, and stands up higher than all the rest. But when the Whale runs strait down towards the bottom underneath the Water, then he doth draw the Rope very hard, so that the upper part of the Long-boat is even with the furface of the Water; nay, he would certainly pull it down to the bottom, if they should not give him Rope enough: This he doth commonly where the Sea is deepest; and this doth require an incredible force to draw fo many hundred fathoms of Rope under Water. gives me occasion to remember, that when we on the 27th of April, in the Year 1672. did fling out our Lead, near St. Kilda, behind Scotland, into the Sea, where it was 120 fathom deep when the Weather was calm, and when we would pull it up again, it was so heavy that 20 Men had much to do to heave it. The Harpoonier taketh his Harpoon, and holds the Point, or the Iron thereof, together with the Rope or Line of five or feven fathom long, about an inch thick, and is laid up round like a Ring, that it may not hinder the Harpoon when it is flung, for as foon as he doth fling or dart the Harpoon, this Line follows; for it is more

more pliable than the rest that are fastned to it, wherewith they purfue the Whale. It is made of the finest and softest Hemp, and not daub'd with Tar, but it doth swell in the Water, and fo it grows hard. The Harpoonier darts his Harpoon with the Right hand at the Fish; as you may fee by m in the Tab. A: When the Whale is hit with the Harpoon, all the Men that are in the Long-boat turn themselves about and look before them, and they lay their Oars nimbly upon the fides of the Long boat. There is a Man in the Long-boat, whose business it is to look after the Rope; as you may fee at N. in the Tab. A; for in each of these Long-boats there is a whole heap of Lines, between the two Seats or Benches; this Heap is divided into three, four or five parts, and each of them is of eighty, ninety, to one hundred fathoms long. The first of them is ty'd to the Forerunner, or small Line; as the Whale runs under the Water, they tie more and more Line to it, and if in one Boat there should not be enough, they make use of those that are in the other Long-boats These Ropes or Lines are thicker and stronger than the Fore-runner, and are made of strong and tough Hemp, and tarr'd over. The Line furnisher, or the Man that doth look after the Ropes, and also the other Men that are in the Long-boat, must have great care that the Ropes or Lines may not be entangled when they run out fo fwift, or that they may not run towards the fide of the Longboat,

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the Fish; as When the all the Men nselves about ay their Oars boat. There business it is may see at  $N_{\bullet}$ e Long-boats between the is divided ineach of them dred fathoms to the Foreele runs under re Line to it, ot be enough, in the other es are thicker ner, and are p, and tarr'd he Man that also the other ust have great y not be enlift, or that of the Long-

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boat, for then the Long-boat would be overfet, and many Men lose their Lives, if other Long-boats were not near to their Assistance. The Line must run just before, in the middle of the Long-boat, that is called the Stave by the Seamen, and by reason of this strong and violent Motion, the Wood and Rope would be fet on fire. But to prevent this, the Harpoonier hath a wet Rag tied to a Stick (like unto a Mop) ready at hand, wherewith he wets the Wood without ceasing. The other three Men that are in the Long-boats take also care of the Lines, as well when they are let out, as when they are taken in again; and when they cannot hold it with their Hands, they wind it about the Staves of the Boat, and so they do stop it from going any further. Another, that is called the Steerman, stands behind in the Longboat, as you may fee by o in the Tab. A, and steers the Boat with an Oar, and he takes great Care, and minds the Rope, to see which way it runs out, for if it doth go towards either side, and doth not run just before over the Stave, he fo guides the Boat, that it may run exactly out before. The Whale runs away with the Longboat as swift as the Wind. If the Harpoonier can, he doth dart the Harpoon just behind the Spout-hole of the Whale, or in the thick Fat of his Back, where they also do launce him, for that maketh him spout Blood sooner than if wounded in any other place, and die fooner than if you should launce them into their Belly, or through the Guts. The first Whale we caught **fpouted** 

spouted Blood in such a quantity, that the Sea was tinged by it wherever he fwam, whereunto the Mallemucks flock'd in great Numbers, as I have mentioned before. They also launce the Whales near their Privy-parts, if they can come at it; for if they are run in there, it doth pain them very much; nay, even when they are almost dead, if you run in your Launce thereabout, it causes the whole Body to tremble. For the most part they do not much mind where they launce or push them; for there is no time to take great Deliberation, but they firike at him as well as they can. But about the Head the Harpoon can do him no hurt, because the Fat is but very thin there upon the Bones, which the Whales know as well as we; for when they find themselves in danger, so that they cannot escape the Harpoon, they rather leave their Head than their Back undefended, for there the Harpoon breaks out easier, and so the Whale gets away, like one that hath no mind to fight any longer. The Use of the Harpoon is, to tye, as it were, the Whales with them, that they may not run away: It is shaped like an Arrow before, as you may fee at f, in the Tab. Q: It hath two sharp Beards, they are sharp at the edge, and have a broad Back, like unto a Hatchet that is sharp before and blunt behind, or on the Back, fo that it may not cut with its Back, for else it would tear out, and all your Labour would be loft. The Iron Handle is thicker behind than before, and it is hollow, whereinto they put the Stick, as

that the Sea vam, whereat Numbers. ey also launce , if they can there, it doth n when they your Launce Body to tremot much mind n; for there is tion, but they YOU

you may fee in the Tab. Q, marked with b. Before this hollow part, the Fore-goer is fasten'd or ty'd, that is to fay the foremost Rope, as you may fee in the Tab Q, marked with i. Those are the best Harpoons that are made of dean and fine Steel, and are not hardened too much, so that you may bead it without inapping, for oftentimes Two hundred Pounds are lost (for a midling Whale is esteem'd at so much) in a minutes time for want of a good and wellemper'd Harpoon. The Wooden Stick is fastened within the Iron Collet or Funnel of the him no hurt, the Iron; fomewhat higher up, about two spans there upon the off, there is a hole made through the Stock, as as well as we; you may fee marked with k, in the Tab. Q. in danger, so The Harpoon is light behind, and heavy to-Harpoon, they wards the point, or before, like an Arrow, that eaks out easier, hind with Feathers, so that sling it which way se one that hath you will, it doth fall always upon the point. The Use of the Through this hole cometh a piece of Packhe Whales with thread, wherewith the end of the Fore-runner way: It is shape is fastened to the Handle or Stock of the Harman may see at f, poon, but this is soon torn off, and it serveth rp Beards, they for nothing more after the Harpoon sticks in a broad Back, the Body of the Whale; neither is the Wooden narp before and Handle of any further use, and so it doth soon fo that it may tome out from the Iron. When the Whale is e it would tear fruck with the Harpoon, all the other Longld be lost. The posts row one before, and take notice which han before, and way the Line doth stand, and sometimes they ut the Stick, as pull at the Rope or Line (as you may see in

the Tab. A. marked with p.) If it is stiff and heavy, the Whale doth draw it still with his might; but if it doth hang locie, fo that the Long-boat is before and behind equally high out of the Water, then the Men pull in the Rope again, (as you may feen in the Tab. A. marked with q) and the Rope-giver layeth it down in very good order (as you may fee at n, in the Tab. A) round, and one row above the other, that if the Whale should draw on again, he may have it ready to give him without being entangled. Here is also this to be observed, that if the Whale runs upon the level they must not give him too much Rope, for if he should turn and wind himself much and of ten about, he might easily wind the Rope about a Rock or heavy Stone, and fo fasten it to it, and fo the Harpoon would come out, and all the Labour would be lost; which hath often hapned, and we our felves lost one that way. The other Long-boats that are towed behind. wherein the Men look all before them, and fit still, and let the Whale draw them along: If the Whale doth rowl upon the Ground, fo that the Long-boats or Sloops lye still, they draw their Lines in again by degrees, and the Rope master doth lay them down again in their proper places, as they had been laid before. When they kill the Whale with Launces, they also pul their Lines in again, untill they come near toth Whale, yet at some distance, that the others may have room to launce: But they must have great care, that all the Lines of every Sloop may no

it is stiff and still with his , fo that the equally high n pull in the the Tab. A. iver layeth it u may fee at ne row above ould draw on give him withalso this to be upon the level h Rove, for if If much and ofthe Rope about fasten it to it, ne out, and all nich hath often t one that way.

be cut off together because some Whales sink. and others do fwim even with the Water when they are dead, which is a can tell beforehand, whether they will do one or the other. The far ones do not fink a countly after r , are fresh killed, but the lean one shak immediately after they are dead, but after some few days they come up again, and fwim on the Water: But it would be too long a while for a Man to stay till he cometh up again, and the Sea is never fo quiet that one can stay long in the ame place, and where the Sea is quiet, and without Waves, there the Stream doth carry the Ships and the Ice along together, fo that we should be forced to leave the Whale unto others, that would find him dead some days after. 'Tis true, this is the easiest way to catch Whales, but it is very nafty and stinking work; for long and white Maggots grow in their Flesh, they are flat like unto Worms that breed in towed behind, Mens Bellies, and they smell worse than ever I re them, and sit smelt any thing in my Life. The longer the them along: If Whale lies dead in the Water, the higher he doth Ground, so that swim above it; some swim a foot high above still, they draw the Water, others to their middle, and then and the Rope they do burst easily, and give a very great reain in their proport. They begin immediately to stink, and d before. When this encreases hourly, and their Flesh boils and come near to the in their Bellies, that their Guts come out. If at the others mal any Man is enclined to fore Eyes, this Vapour must have great enslames them immediately, as if Quicklime y Sloop may no was flung into them. But when the live Whales M 2 rife

rife and swim again, some of them are astonish'd, others wild or stark mad: To those that are wild we come softly or gently from behind, as we do when we are going to trapan them; for when the Wind is down, the Weather calm, and Air serene, so that the Sea doth not soam or roar, the Whales hear immediately the strik.

ing of the Oars.

If many small Ice-sheets lye near to one another, fo that we cannot follow the Whale with our Sloops or Long-boats, we fetch in our Line with all might and strength, and if with one or more pulls we can fetch out the Harpoon it is well, if not, we chop off the Rope or Line. The Whale is best and surest struck with a Harpoon when he spouts Water, as is already faid above, for we do obferve, that when they lye still and very quiet, that they then liften, and are fometimes under, and fometimes above Water, fo that their Back doth not quite dry, and before we are aware of it he flings up his Tail behind out of the Sea, and fo bids us good-by; as you may fee at s, in the Tab. A. The Whales may easily be caught when the Air is very ferene and clear, and the Sea quiet, and where there float neither great nor small Ice-sheets, so that we may go in between them with our Boats of Sloops, to follow them; for at the Ice field the Whales do commonly lye and rub them felves at them, perhaps by reason of the Lice that bite them. Besides, against the Ice sheet the Sea beats, dashes, and foams, with small

are aftonish'd. hose that are from behind, trapan them; Weather calm, doth not foam ately the strik-

e near to one ow the Whale , we fetch in trength, and if n fetch out the e chop off the best and surest he spouts Wafor we do oband very quiet, fometimes uner, so that their before we are il behind out of y; as you may bales may eafily very ferene and curlin.

curling Waves, so that the Whales do not obferve nor mind the striking of the Oars, and so they are easily struck with the Harpoon. It is very dangerous to kill a Female, chiefly when she is big with young, for they defend themselves very long, and are harder to be kill'd than a Male one. Oftentimes the Long-boats wait fix or feven Hours, nay, a whole day, for

a Whale, before they see one.

Where great quantity of small Ice is crowded together, there it is also very dangerous, and hard to come to the Whale, for he is so cunning, that when he perceives where the Ice is he retires thither immediately. The Harpoonier stands at the Head of the Long-hoat, and doth draw on the Rope, as you may fee at p, in the Tab. A, to try whether it is heavy or light; if it feels heavy, fo that we are afraid that it will pull the Boat under Water, then we give him more Rope, if he runs thrait out before, he draweth the Sloops after him. If he doth run underneath a great Ice field, the Harpoonier taketh a Knile in his Hand, as you may fee at R. in the Fab. d, which here !! the Chapting Kuthe and Harles I. and has where there float hollow, or ferrigg, on tall of follows to add. eets, fo that we de, to there is What was felicbly and a ferth our Boats or meath it, and the deepe is not been and the at the Ice field for we have the fee for in a first and rub them lose, they be were them in the first of the like bloom to be a few to be the few to be ist the Ice-sheet class at the same with small with the same wi

in the Body of the Whale, yet not without great loss, for oftentimes they run away with the Lines that belong to five and more Sloops. It happens very often, that they run to the Ice with the Long-boats, so that they dash against it, as if they would break it into pieces, which also very often happens. But when the Whale rifes again, they oftentimes fling one or two more Harpoons into him, according as they find he is sired more or less, then he dives under Wa er again. Some swim or run even all along on the Water, and they play with their Tail and Finns, so that we must have great care that we may not come too near them. When the Whales fling their Tails about after this manner, they wind the Line about their Tail, fo that we need not to fear the Harpoon tearing out, for then they are ty'd ftrong and firm enough with the Rope. After they are wounded, they fpout with all their might and main, fo that you may hear them as far off as you may a Cannon; but when they are quite tired, it cometh out only by drops, for he hath not strength enough to force the Water up, and therefore it founds as if you held an empty Mug or Bottle under Water, and the Water runs into it. And this found is a certain fign of his feeblenefs, and that he is going to expire. Some Whales blow Blood to the very latt, after they have been wounded, and these dash the Men in the Long-boats most filthily, and dye the Sloops as red as if they were painted with a red colour; nay, the yage not without n away with more Sloops. un to the Ice y dash against pieces, which ien the Whale g one or two ding as they he dives unr run even all lay with their ast have great oo near them. ails about after ne about their r the Harpoon

ar the Harpoon ty'd strong and After they are heir might and them as far off when they are y by drops, for o force the Waler Water, and this sound is a and that he is blow Blood to been wounded, the Long boats ops as red as if

olour; nay, the

very

very Sea is tinged red all along where they fwim. Those Whales that are mortally wounded heat themselves, that they reek while they are alive, and the Birds fit on them, and ear on them while they are still alive. When the Whales blow up the Water, they fling out with it some fattish Substance that floats upon the Sea like Sperm, and this Fat the Mallemucks devour greedily, of which feveral thousands attend him, fo that a Whale often hath more Attendants than a King hath Servants; as you may fee by  $T_2$ , in the Tab.  $A_2$ . Sometimes also the Harpoons break out; then often Longboats of other Ships attend, and as foon as they see that the Harpoon is come our, they sling their own into him, and the Whale is theirs, altho' the first Harpoon hath almost kill'd the Whale, yet if he doth get loofe, the fecond Perty claims him, and the first must look for ano-Sometimes at the same time two Harpoons, belonging to two feveral Ships, are struck into the Whale, fuch ones are divided equally, and each one hath half; as you may see at MM, in the Tab. A; the other two, or three, or more Sloops, as many as there is of them, wait for the Whales coming up again, and when they see that he is tir'd, they kill him outright with Launces. In doing this is the greatest danger, for the first that do sling the Harpoon into him are drawn along by the Whale, and are at a good distance from him, but these that kill him with Launces are as well upon his Body as at his fides, according as the Whale turns M 4

and winds himfelf, and they receive many fe-Here the Steersman must take vere Blows. care to observe how the Whale runs and turns himself about, that the Harpoonier may reach him with his Launces: all the other Men in the Sloops row diligently, fometimes forwards, and formatimes backwards, which they call rowing on and firiking, and when the Whale lifts up himself out of the Water, he commonly doth Brike about with his Tail and Finns, that the Warer dasheth up like Dust. A Long boat he values no more than Dust, for he can beat it all into shatters at a blow: But a great Ship is too hard for him, and if he strikes against it with his Tail, he feels it more than the Ship, for he doth to paint the Ship with his own Blood, that it maketh him very feeble. good Steerman is next unto the Harpoonier most useful in the Sloop; he steers with one Oar, and doth look out before; the other four Men turn their Back to the Head, and look towards the Stern, therefore doth the Steerman and Harpoonier always cry, Row on, or frike, that is to fav, row near to the Whale, or else keep farther off. The Launces have a Wooden Stick or Handle above two Fathoms long, or Smewhat thorses than a Pikestaff; as in the Tab. & you may for at g; the Iron thereof is commonly a Fathom long, and pointed before like unto a Pike; it is made of Steel or tough Iron, that it may bend without breaking: For after you have made a deep hole in his Body with your Launces, you noke into it with them

Toyage

ive many fean must take uns and turns ier may reach er Men in the forwards, and ev call rowing Whale lifts up mmonly doth inns, that the Long boat he he can beat it a great Ship is rikes against it than the Ship, with his own ry feeble. he Harpoonier cers with one the other four d, and look tothe Steerman w on, or firike, Whale, or else have a Wooden thoms long, or taff; as in the Iron thereof is pointed hefore Steel or tough breaking: For ble in his Body

one way and the other way, as they do when they poke for Eels, as you may fee at Z, in the Tab. A; but if he doth get one or more out of your Hands, you take another, for every Sloop hath at least five, fix or feven, and yet fometimes he has them all out of three, four, or more Boats sticking in his Body.

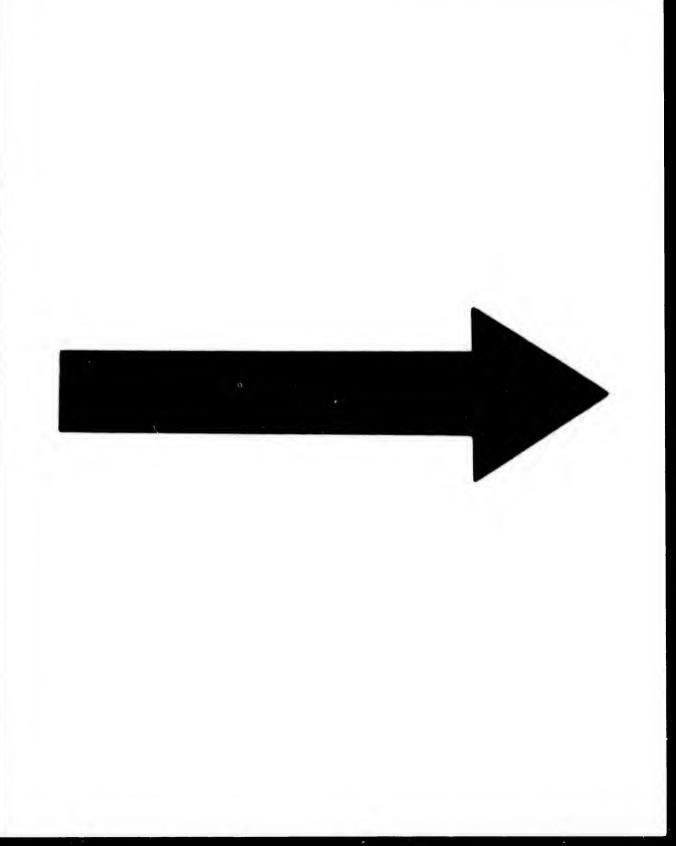
#### CHAP. VII.

What they do with the dead Whale.

Fter the Whale is killed they cut off his Tail; fome keep the Tail and Finns, and hang them up at the outlide of their Ship, for that defends them from the Ice when it preffeth upon the Ship: The Tail finders the Boat in its course, because it doth lye can, and that is the reason why they cut it out Susfore the Tail they fasten a piece of a Rope, and at the other end at the Sturn of the Lift sloop, as you may fee in the Tab. A, marked with W. There is in all four or five Sloops fastened to one another behind, and fo they row one behind the other to the great Ship. When they have brought the Whale to the Ship, they tye it with Ropes fast to the Ship; that part where the Tail is cut off they falten to the fore-part of the Ship, and the Head towards the Stern, about the middle, near the great Shrowds of the Mainmast on the Larboard of the Ship; is

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to it with them



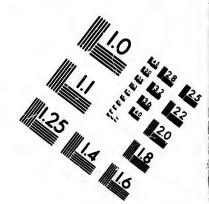
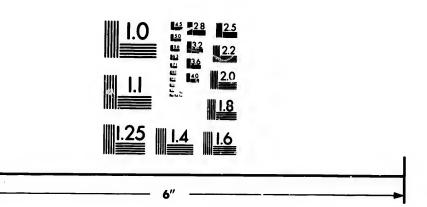


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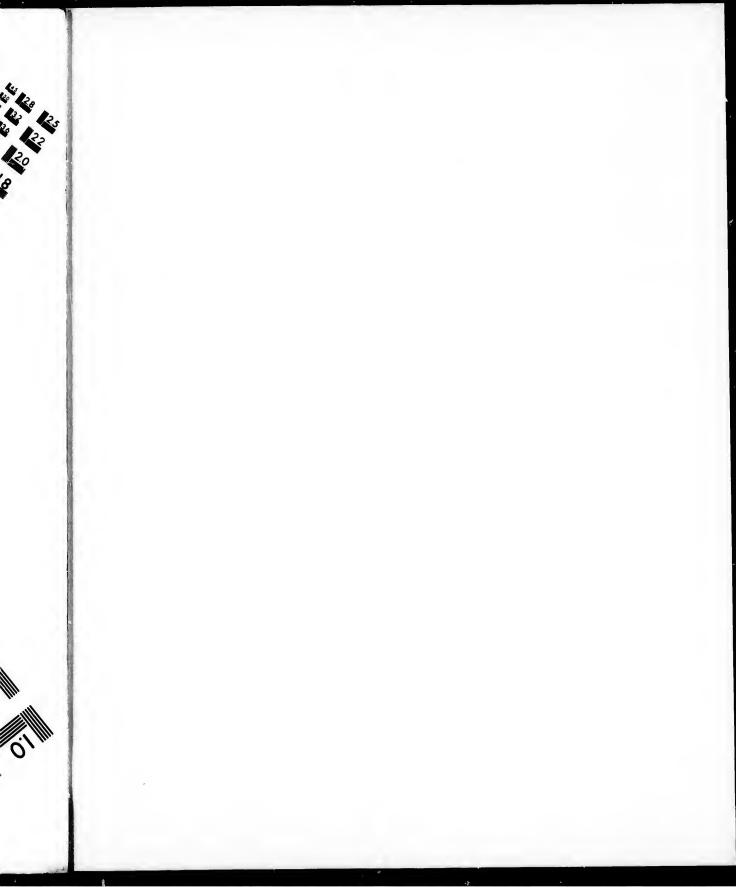


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is seldom that a Whale doth reach farther than from the Poop to the middle of the Ship, except the Vessels are very small; as you may see

at X, in the Tab. A.

By the Larboard is to be understood that side of the Ship that is at your Right Hand as you go from before towards the Stern; but that side of the Ship that is on your Right Hand as you go from the Stern towards the Fore-part is called Star-board, because you go from the Steel forward.

Whoever of the Ships Crew sees a dead Whale, cries out Fish mine, and therefore the Merchants must pay him a Ducat, for his Care and Vigilance. Many of them climb often up into the Mast, in hopes to have a Ducat, but it vain.

When the dead Whale is thus fastened to the Ship, two Sloops hold on the other fide of the Fish or Whale, and in each of them doth stand a Man or Boy, that has a long Hook in hi Hands, wherewith he doth hold the Boat t the Ship, and the Harpoonier stands before i the Sloop, or upon the Whale, with a Leather Suit on, and sometimes they have Boots of Underneath the Hook are some sharp Nai fixed, that they may be able to stand firm, for the Whale is very flippery, fo that one may e fily fall, as upon slippery Ice. Thefe two Mo that cut the Fat off have their peculiar Wag for it, viz. about four or five Rix Dolla First, they cut a large piece from behind t Head, by the Eyes, which they call the Ke

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oyage farther than the Ship, exyou may see

stood that side r Hand as you ; but that fide t Hand as you ore-part is calfrom the Steer

w fees a dead nd therefore the at, for his Care n climb often up a Ducat, but in

is fastened to the ther side of the them doth stand ng Hook in his hold the Boat to stands before in with a Leathern have Boots on. ome sharp Nails o stand firm, for that one may ea-Thefe two Men

r peculiar Wages five Rix Dollars. from behind the

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ter piece, that is as much as to fay the Windingpiece; for as they cut all the other Fat all in rows, from the Whale towards the end, fo they cut this great Kenter piece larger and wider than all the rest. This piece, when it is cut round about from the Whale, reaches from the Water to the Cradle, (that is the round Circle that goeth round about the middle of the Mast. and is made in the shape of a Basket) from whence you may guess at the bigness of a A strong and thick Rope is fixed to this Kenter piece, and the other end is fixed underneath the Cradle, whereby the Whale is as it was born up out of the Water, that they may come at it, and by reason of the great weight of the Whale, the Ship leans towards that side. One may judge how tough the Fat is, for in this place an hole is made, through which the Rope is tastened, yet not deep into the Far, wherewith they turn the Fish at Pleasure; as you may fee at K, in the Tab. A. Then, as is before faid, they cut another piece down hard by this, that is also halled up to the Ship; as you may fee at L, in the Tab. A; and then in the Ship they cut it into less pieces about a These two Men have in their foot square. Hands, as well as those that stand on the Whale, long Knives, wherewith they cut these square These Knives are, with their Hatts, pieces. about the length of a Man; and the more the Fat of the Whale is loofened, just as the Hide is flea'd from an Ox, the higher must they pull they call the Ken up the Fat with their Pulleys, that they may

cut it the easier. And when they have drawn up this Fat, the Men take it in to them into the Ship, and loofen the Rope that it was fastned unto. The Rope is fastned with a Ring whereinto they put a great iron Hook, which is fastned to a strong Tackle, and also sometimes, before in the Ship, are fix'd two other Tackle, wherewith all the Fat is drawn up into In the Ship stand two Men, with Hooks as long as a Man, wherewith they hold the great piece of Fat, which the two Men cut By into square pieces with their long Knives. them Itands another, that hath a short Hook with a Ring in his Hands, which he thrusts inen the pieces of Fat that are cut square, and puts it upon the Bench or Dreffing board, where it is cut by others into less pieces. The two first Men with their long Knives, that cut the large pieces of Fat, stand near the Larboard of the Ship, at that fide where the Whale is fix'd, and the other Men that afterwards cut it into less pieces, stand on the other side call'd Starboard, as you may fee at I, in the Tab. A. When it is a good time to catch Whales, and they will not lose it, they tow fometimes several Fish behind their Ship, and catch more: and they cut only the great pieces of Fat of them, and fling them underneath into the Ship. But when they have no more Vessels to pur their Fat into, they fail into an Harbour; or if it be calm Weather, and not windy, they ftay in the Sea, and fasten themselves to a sheet of Ice, and fo they drive along with the Stream

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oyage have drawn to them into at it was faltwith a Ring Hook, which nd also somed two other drawn up into o Men, with with they hold e two Men cut g Knives. a short Hook h he thrusts inut square, and ig board, where The two ces. es, that cut the the Larboard of e Whale is fix'd, ards cut it into side call'd Starin the Tab. A. h Whales, and fometimes fend catch more; pieces of Fat of th into the Ship. e Vessels to put Harbour; or if vindy, they stay ves to a sheet of vith the Stream.

The

The other Men cut the Fat into small pieces, on a Table; on the further fide of the Table is a Nail fastened, whereunto they fasten a Hook, which they put into the Fat, that it may lye steddy when they cut it into small pieces; the Fat is tough to cut, wherefore it must lie firm. That fide whereon the Skin is they lay undermost, and so cut the Fat from it by pieces. The Knives wherewith they cut the Fat into small pieces, are less than the other, about three foot long with their Hafts. They all cut from them that they may not be bedaubed with the Fat, which might occasion a shrinking-up and lameness of the Sinews of their Hands and One of them cuts the foft and tough Fat into small pieces with a long Knife; this Man they call the Chopper, and he is mightily daubed, wherefore he doth hang about him all forts of Rags and Clouts he can get. The Fat of fome Whales is white, of others yellow, and of fome red. The white Fat is full of small Sinews, and it does not yield fo much Oyl as the yellow. The yellow Fat that looks like Butter is the best. The red and watery Fat cometh from dead Whales, for in the place where the Fat runs out, the Blood fettles in its room, and yields the worst and least Oyl. Before the Table is a Gutter made of two Boards nailed together, whereinto the small or minced Fat is flung; by it stands a Boy that shuffles the Fat by degrees into a Bag that is fixed to the end of the Gutter, and is like unto a Puddingbag, fo that it reaches down into the Ship; out of

of this Bag the Fat runs down into a Tub or woodden Funnel, which they put upon empty Vessels or Cardels, as they call them, and the Men that are below in the Ship fill them with it, and fo it is kept until they try it up into Train-oyl. When the Fat is cut off from one fide of the Whale, before they turn him they cut out the Whale-bone in one entire piece; and this is so heavy, that all the Ships Crew hath enough to do to pull it up. They make use, for that purpose, of a peculiar fort of Hooks, two whereof they fix on the fides, and one on the middle of ir, very well provided with strong Tackle, as you may see in the Tab. R, and afterwards they cut out the Whale bone of the other fide of the Fifh, and draw it up also with Pulleys into the Ship, where it is cut into such pieces as they bring it hither in. The Whale-bone doth only belong to the Owners of the Ship, and the others that run their hazard, whether they catch few or many Whales. The rest, which take their Pay by the Month, receive their Money when they come home, whether they have caught many or none, and the Loss or Gain falls upon the Merchants. The Hooks that they crane up the Whale bone withal, are made on purpose for it, like a Beam of a pair of Scales; on each end are two sharp points, which they knock in between the Whale-bone. in the middle of the Beam is fastened a long Handle with a Ring, whereon the Ropes are fastened; on this Handle there are fixed two other nto a Tub or it unon empty them, and the fill them with try it up into t off from one turn him they entire piece; ne Ships Crew . They make eculiar fort of the fides, and well provided

e are fixed two

other

other crooked Hooks like Birds Claws; in the Ring where the Ropes are fastened is another crooked Hook, at the top fastened by a Ring, fuch a one as we make use of here when we wind any thing up by a Crane; but in the middle between these two Hooks is fastened another Rope, which keeps the lowermost Hook steddy; the two hindmost Points are knocked into the Whale-bone behind, and the two foremost short ones before, which hold the Whalebone fast between them when it is wound or pulled up.

The dead Whales, when the Fat is cut off nay see in the of them, they let float, and are the Food of the y cut out the Birds of Prey when they are hungry; but they i the Fish, and had rather have dead Whales that have still into the Ship, their Fat lest on them. The white Bear is ges as they bring nerally not far off, whether there be any Fat doth only be- left on them or no, and look like Dogs that ip, and the o- only feed upon Carrion, and at that time their whether they white Furr is turned into a yellow Colour, and The rest, which at the same time they shed their Hair, and their Skins are worth very little. Where a dead Whale is near, we see it by the Birds, nd the Loss or whereof are many, and also the white Bears s. The Hooks discover it, as you may see at g in the Table B, pone withal, are chiefly in the Spring, when but a few Whales Beam of a pair are caught, for then they are greedy of their vo sharp points, Prey; afterwards when many Whales float on he Whale-bone; the Sea, they have their Bellies full, and we fastened a long do not find so many by a Whale, because they the Ropes are are dispersed.

CHAP.

#### CHAP. X.

Of the Trying out of the Train-oyl from the Fat.

Ormerly the Dutch did try out their Trainoyl in Spitzbergen, at Smerenberg, and about the Cookery of Harlingen, where still, for a Remembrance, all forts of Tools belonging thereunto are to be feen, whereof I have made mention before. The French.men try up their Trainoyl in their Ships, and by that means many Ships are burnt at Spitzbergen; and this was the occasion of the burning of two Ships in my time. They try out their Train-oyl at Spitzbergen, that they may load the more Fat in their Ships; and they believe it to be very profitable, for they go their Voyage upon part, that is to fay, they receive more or less, according to what they catch: but I do not account it Wisdom to fill up the room of the Ship with Wood, where they might flow Vessels. But our Country-men, as I told you before, put the Fat into the Vessels, wherein it doth ferment just like Beer; and I know no Instance that ever any Vessel did fly in pieces, although they are stopt up very close, and so it becometh for the greatest part Train-oyl in them. Of the fresh Fat of Whales, when it is burnt out you lose Twenty in the Hundred, more or less, according

in-oyl from

at their Trainberg, and about ftill, for a Reelonging thereve made menup their Traint means many and this was wo Ships in my n-oyl at Spitze more Fat in to be very proupon part, that less, according not account it f the Ship with v Vessels. But you before, put ein it doth ferpieces, although cording

cording as it is in goodness. At the place where they try up the Fat into Train-oyl, near Hamburg, they try up the Fat out of the Vessels into a great wooden Trough er Tub, and out of this two Men empty it into a great Kettle that stands near it, that doth hold two Cardels of Fat, that makes 120, 130, and fometimes 140 Gallons: Underneath this Copper that is made up with Bricks they put the Fire, and fo they boil it, and try it up into Train-oyl, as you try up other Far. This Copper is very well fecured, as the Dyers Coppers use to be: it is very broad and flat, just like a Frying pan, made of Copper. When the Far is well tryed or fryed out, they take it out of the Pan with fmall Kettles, into a great Sieve, that the liquid only may run through, the rest is thrown away. This Sieve Hands over a great Tub, which is above half filled with cold Water, that the hot Train oyl may be cooled, and that what is unclean and dirty of the Blood and other Soil may fall to the bottom, and only the clear Train-oyl fwim at the top of the Water, like wher Oyl. In this great Tub or Trough is a inall Spour or Tap which doth run our over mother as big as a Tub, out of which the Trainovl runs into another Tub, when it is almost ow no Instance mady to run over, which is also filled with cold Water to the middle, wherein it is more cooled, d fo it becometh and becomes clearer, and more refined than it n them. Of the was before. In this Trough is another Spout, burnt out you brough which the Train oyl runs into the nore or less, ac. Warehouse into a Vatt, whereout they fill it into

mto Cardels or Veffels. Some have but two Tube. A Cardel or Hogthead holds & Callens A true Train oyl Barrel doth hold 32 Callens The Caraves they try up the fecond rane, and make brown Train-oyl out of it, others that think it not worth their while, fling them away.

#### CHAP. XI.

Of the Pont fills.

■ THE Finn fift is in the length of a Whale but in bulk the Whale is three times as big. They know the Finn-fifti by the Finn that are upon his Back, near unto his Tail, and alk by his vehement blowing and fpouring up of the Water, which the Whale doth not do. He Knob on the Head is tplit in length, that is a his blowing hole, through which he forces of the Water higher than the Whale, and will more fiercenes, which is not to high as that a the Whale, neither is the Back bended or der ted in fo much. His Lips are of a brownf colour, and like a twifted Rope. On his upper Lap the Whale-bone hangs, as it doth on the Whate; but whether he doth open and thur li Month there are different Opinions: Some to lieve that he connot open his Mouth, yet the is nor true; but he doth not always tun ope Mouth'd, that the Whale bone may not had

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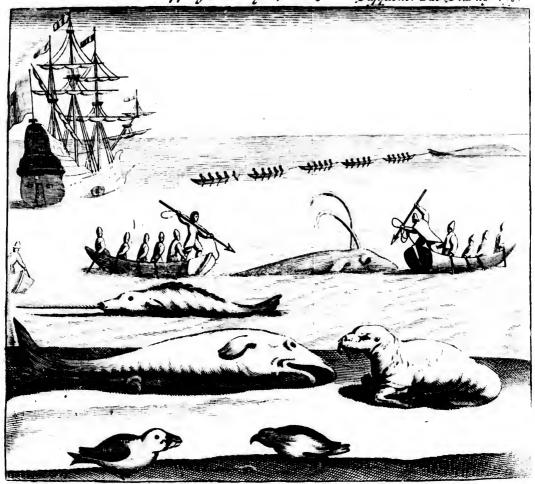
have but two olds 6.4 Callons, rold 3.2 Callons, scond cure, and it, others than de, fling them

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gth of a Whale, s three times as by the Phone that his Tail, and alle pouting up of the h not do. His ength, that is a rich he forces in Virale, and with o high as that o k hended or dei e of a brownil e. On his uppe as it doth on th open and thur h imors: Some b Mouth, yet il always run ope ne may not had

The Whale fifting & killing of Morfses . Supplem! Tab S. Pas 170.



reses. Supplem! Tab S. Page 170.



out of his Mouth at the sides, as it doth in Whales, for elfe he can open his Mouth if he pleases. Within his Mouth, between the Whale-bone, he is all over hairy, like unto Horses Hairs, which grows within to the Whale-bone that is but new growing, and it is of a blue colour. The other Whale-bone is of a brown colour, and dark brownish with yellow throaks, which are effected to be the oldest: The blue Whale-bone cometh from young Whales and Finn fishes. He is not as black as Velver, as the Whale is, but like a Tench. The shape of his Body is long and small, neither is he fo fat as a Whale, wherefore we do not much care to catch him, for he doth not pay us for our Labour. It is much more dangerous to kill him than to kill a Whale, becaute he moves quicker, and beats about him with his Tail, and from him with his Finns, fo that we dare not come near unto him with our Sloops or Long-boats, for the Launces kill him foonest. I was informed, that once fome, before they were aware of it, did fling, by a mitake, their Harpoon into a Finn-filh, whereupon he drew both Boat and Men, all on a fudden, underneath a large Ice-sheet before they were a ware of it, and not one of them escap'd. His Tail lies flat, like unto that of the Whale. When the Finn-fishes appear we see no more Whales.

The Frain-oyl of the Whale is used by several, viz. by the Erize-makers, Curriers, Cloathwakers, and Soap-boilers; but the greatest use that

that is made of it, is to burn it in Lamps influ

of other Oyl.

The Greenland Ships carry 30 or 40 Men, at fomerimes more, chiefly the great Ship, the have fix Sloops belonging to them, such Ship hold from 800 to 1000 Cardels of Fat; the less Ships have commonly fewer Cardels of Vessels, from 400 to 700, and have common five Sloops or Boats belonging to them. The also go Galliots to Spitzbergen to catch Whale they have three or four Sloops belonging them: Some put the Sloops upon the Deck the Ships, others hang them overboard, as the doat Spitzbergen, when they are amough the Ice, that as soon as they call Fall, fall, the may immediately let down their Sloops in the Water.

Then there remains on board in the Ships if Steerfman, the Barber, the Chyrorgion, a Cooper, and a Boy, to look after the Ship; of Skipper or Commander himself goeth our with the rest of the Men, for they are all obliged

go a Whale-catching.

In each Ship there are fixty Launces, its Sea horse Launces, forty Harpoons, ten la Harpoons wherewith they strike the hounder Water, six small Sea-horse Harpoons thirty Lines or Ropes, and each of themse eighty or ninety fathoms long. When it go a hunting they take along with them each Sloop two, and sometimes three poons, six Launces, two or three Season Launces, three Lines, and five or six Marine

Lamps influid

r 40 Men, and eat Ship, that em, fuch Ship, that em, fuch Ship les of Fat; the er Cardels or have commonly othem. There is belonging to boon the Deck of verboard, as they are amongst the Fall, fall, they heir Sloops into

d in the Ships the Chyrurgion, the frer the Ship; the If gooth our with are all obliged to

cording to the bigness of the Sloops, therein is the Harpoonier, Line keeper or Giver, and the steersman: They all row equally, until they come near to the Whale, except the Steersman, for he guides the Boat with his Rudder. They also have in each Sloop a Chopping-knife, to cur off the Rope when they cannot follow the Whale, and a Hammer, and other Instruments, as Hatchets, Drags, and feveral forts of Knives, wherewish if they cut the Whales. Meat and Brack is alto given them according to the ufual Culton, he that will have better much take it along with him. Lazy Fellous are in this Voyage troubled with the Sourty, but those that fear neither Air nor Wind, and bestir themselves, escape pretty well; este the Sourvy is the common Distemper in this Voyage, besides Fevers, Imposthumes, and other accidental Distempers, and therefore the Chyrurgion must take care to provide himself.

#### CHAP. XII.

Of Rotz-fillies and Sea-qualms.

Otz-fish (or Slime-fishes) I call these, that in themselves are nothing else but Slime, and they are transparent. I have observed several kinds of these, some whereof have parts like Finns, as that same which I call the Sea May-slie. Others are like unto the sha Snails, only instead of Finns they have Stalks like un-

N

to Feathers. Besides these, I have seen four other forts that are quite differing in shape from the others, and are called Sea-qualms by the Seamen, as if they were a thick Scum of the Sea coagulated together. They are also called after the Latin Name Sea Nettles, because they cause a burning Pain like unto Nettles. I have formerly had tome Thoughts, that the Rotz or Sime filles might be a Seed flung out and fo putrified, and that they did cause this burning Pain by reason of their Putrefaction; and so I did think that they received their fliape or form according to the feveral kinds of Fishes from whence they came, and that some did take after Thornbacks, others after Whales, and the like; but this doth not feem to be agreeable to Reafon, for I have centider'd it better fince, and find Life to be a far more noble thing, than that it flould proceed from purrefied Seed call away. They cleanfe the Sea mightily, for all the film and uncleanness flicks to them, just as a Bur doth unto Cloth.

### I. Of the Sea-May-flye.

These small Eish are very like unto the securities, because of their transparent Body, and they also dissolve like the same, if you held them in your Hand. They have two Finns underneath, about the Neck, which are like thus to those of the Whale. They are in their shape like unto our white Rowls, broad and thick in the middle, and thin and pointed at each end. As for the rest of the Body, it is very like unto

age e seen four ig in shape ea-qualms by Scum of the e allo called because they tles. I have t the Rolz or out and fo puthis burning i; and fo I did rape or form f Fishes from did take after and the like; eeable to Reatter fince, and ning, than that Beed call awith or all the fem just as a Bui:

lye.

e unto the strent Body, and e, if you held to two Finns unto the likest unto adand thick in ted at each and streng like unto

our May flye, fave only that the Tail or Body is all along thicker, and only begins to be pointed towards the end. The Head is broad and round, split in the middle; it hath finall Horns about the breadth of a Straw; on his Head beforc it hath two rows of fix red little Knobs, the eart them in each row; whether they be Eye or no I cannot exactly tell. Its Mouth is div Jed or split. From his Mouth down into his Berly are its Guts, which one may eafily fee because of its transparency. It is of a yellow and black colour; but the colour of the whole Fish is like unto the White of an Egg. He moves in the Water just like a Searnettle. I have drawn him here in his proper bignef. I am of opinion, that the Birds feed upon them, because the Lumbs, Pigeon-diviers, and Parretdivers, are plentifully feen in those places where these Fish or Sea Insects are seen. that I have delineated here I found in the South Bry in Spitzbergen, on the 20th of June; in the Tab. P it is marked with f.

#### II. Of the Snail Slime-fish.

These are also quite transparent, like unto the Sca-nettles, but they are flat, and wound about like a Snail, and so we find upon the Land the shells of such flat Snails. It is very remarkable, that out of the utmost part of him come two Stalks, like unto the Beam of a pair of Scales, hairy or rough on each side, like unto a Feather. With these Stalks he moves himself up and down like the Sea-nettle. They are of a brown N 4.

colour: They fwim in great numbers in the Sea, as numerous as the Duft in the Sun. It is believed that the Whales feed upon them, but I cannot believe that they can be fo nourthing a Food for the Whale, as to make them to fat; I rather believe that the Lands, Pigeon div rs. and the Parret-accers, leed upon them. They are not bigger than I have delineated them. We faw many of them in the South Harbour as Spitzberger, on the coth day of June. Among the lee I law none. The Seamen toke thefe fmall Fish for 8, iders, and I should also have taken them to be fach, it I had not had them in my Hand, and look'd more curicully upon them. and found that they had no affinity at all with the Spiders. In the Tab. Q it is marked with e.

111. Of the har Shine fish.

To appear pair in the the Hungustes or Teal. Rools, for a same a curea reund and thick Stally thang seems, in a the middle of the Head. It hatha blue is non or Knob, that is as then again as the Stall: And this of per part day all be contrared take fuch a biraw Har as our Viomen wear. From the Stark downwards it don't grow thick egain, and round, yet it is a grea dealles than the Burton. They eleen them love themselves up hem below, and then from the rop down again, just as a Stick that is forced down underneath the Water rehoundeth to again. I not them in the North Sea, between Holer-Land and the Aler, where the Sea-wall mingles with that of the Elle. I have also is n 11000 Sun. It is hem, but i nourtharga em to fet; I

They are them. We hardow as Marlow as we. Among ke thefe fould have taken them in my y upon them, at all with the ked with e.

fish.

illes or Teat. nd thick Stalls he Head. har is as this to part may alo at as our V. o. nwards it dealt et it is a gren een them force then from the that is forced rchoundeth U b Sea, here of the Ses-Wil I have also ic a 1100 them at Kuck's-Haven in the Elbe. And I am also inform'd, that sometimes they come as far down as to Freyburg. By reason of its shape, it may be call'd The Hat Slime-sish, or Stalk Slime-sish.

IV. Of the Rose-like shaped Slime-fish.

This Slim This as round as a Circle, yet in his circum erence between his double strokes a little indented. The Rays spring out single from the middle of the Body, and there are fixteen of them in number, but they divide themselves into two Branches, where they run somewhat choser together, and are split in two. The Body thereof is white and transparent, as is mention'd before; he draws it together, and opens it again as he pleafeth; but the Rays or Spokes are brownish red. On the end of these Spokes, towards the outward circumference are feveral frots, 32 in number. In the middle of this Plate is another small Circle, and from the circumference of that the before-nam'd Spokes regin. It is hollow within, which Cavity may prehaps be his Belly, wherein I found two or three of the fmall Shrimps. Round about did lang down feven brown fmall Threads, like from filk, or like unto the Threads that flie in the Air about Autumn; he cannot move thefe, I believe he weigh'd about half a pound; he was about half a span broad; the Threads were about a span long. This fort we got about Hostand. One might very well call him the Plate, or Rose-like Slime-fish, by reason of his figure and shape. I have heard some relate, that

that the Macarels do suck their Colour out e these two, but I cannot affirm it, but leave it undecided, until I can affert it by my own Experience. These three first Sea-qualms are numerous in the North Sea as Atoms in the Air, but about Spitzbergen we do not find many of them. I have seen them swim at top only in calm weather, but in stormy weather they sink to the bottom.

#### V. Of the Slime-fish like a Cap.

At Spitzbergen, near the Muscle-Harbour, on the 8th of July, when the Weather was caling I faw two forts of Slime-fish, whereof one had fix, the other eight Corners: That with fix Corners had also fix purple streaks with blue brims. Between these streaks the Body is divided like unto a Pumpkin into fix Ribs. From the middle of his Body hang down two Threads, that are red like Vermilion, rough, of small Hairs, they are shap'd like unto the Letter [V]. I did not fee him move them when he fwam. Within his Body he hath other broader streaks, of a purple colour, and on the edges or brims of a lightish blue one; they represent themselves like unto a great [ W]. The whole Body is as white as Milk, and not fo transparent as the Body of that that cometh next. It is shap'd just like a Cap with Corners, wherefore one might call it the Cap-like Fish.

It is about as big again as it is delineated here. It weighed about two Ounces.

lour out cout leave it in the Air, and many of top only in her they fink

Cap.

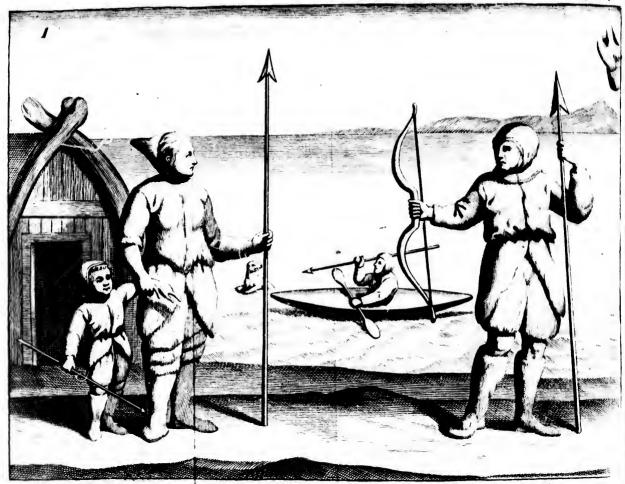
Harbour, on er was calm, reof one had That with fix ks with blue Body is divi-Ribs. From down two milion, and thap'd like not fee him

of a purple cos of a lightish elves like unto dy is as white as the Body of ap'd just like a one might call

ithin his Body

it is delineatwo Ounces.

The same of the sa



onelanders.

Supple m! Tab. R. Pag. 187



Tab. R. Pag. 157



I did not perceive, when I had him in my Hand, that he did burn me, but it dissolved like Snot or Slime. In the Tab. P. it is mark'd with g.

#### VI. Of the Slime-fish like a Fountain.

The fixth and last is a very notable Fish; it hath a hole at the top like unto a Quill of a Goofe (that may perhaps be his Mouth) which goes into a cavity like a Funnel, wherefore we might call him a Funnel-fish. this hole come down four strokes, two and two, exactly opposite to one another; two of them are cut transversedly, and two are not cut. Those that are not cut are about half the breadth of a straw, and the others that are like unto the Back bones of a Snake, are as broad as a straw; both of them come down beyond the middle of the whole Body. From the middle of the Funnel come down four others, like unto the Back-bones of a Snake, and they come down lower than the others; fo that all of them make eight in number. chang'd their colour as we look'd upon them, into blue, yellow and red, with fuch delicate colours as a Rainbow. They look'd in my Eves to be like unto a Fountain with eight fireams or fpouts, wherefore we might call it a Fountain-fifb with eight streams. Within him came down from the end of the Funnel fomething like a Cloud that divides it felf into rows Which I take to be his Intrails. Where the before-

fore-mention'd outward streaks end themselves the Body is first bent in somewhat, then it turns round, and there it hath many small streaks. The whole Body is as white as Milk, of the same bigness as it is here delineated. I believe it weigh'd about four ounces. I did not perceive that he did burn ones Skin, but he did, like him I mention'd before dissolve like slime.

Since I have feen other forts of these Seanettles in the Spanish Sea, that weigh'd several pounds, and they were of a blue, purple, yellowish and white colour, that burn more violently than those of the North Sea; they suck themselves so close to the Skin, that they raise Blisters, and cause sometimes St. Aarbon's Fire. The Cuts whereof, together with the Description, I hope to communicate to the Reader at another time. This is mark'd with h, in the Tab. P.

s end themselves ewhat, then it ith many small white as Milk, delineared. I more Skin, but he ore dissolve like

weigh'd feveral ae, purple, yelburn more vio-Sea; they fuck kin, that they nes St. Anthon's gether with the unicate to the is mark'd with

A SUP-

# A SUPPLEMENT to

Capt. Wood's and Marten's North-East Voyages. Containing some Observations and Navigations to the North-West of Groneland, and other Northern Regions.

## CHERRY, and other Islands.

UR Men conceive Greenland to be broken Land, or a great number of Islands at least, Northern very near to one another.

very near to one another. On the West side they discover'd as far as 82 deg. the most Northerly Point they call'd Point Purchas, there they found very many Islands, which they thought not worthy to give Names to, being careful only to take notice of those fix or eight Harbours which were commodious for their Fishing. On the East-side, they went no farther than 78 deg. because the Dutch diffurb'd their Trading on that fide. There are also many Islands, some of which are nam'd; as Hope-Island, discover'd in 1613, which may be that the Datch call Willoughby's Island, or John Mayen's- Hore-Hand. Island, though it corresponds well to neither; but rather to the latter. It belongerin

to Greenland, and is but a small Island, and lies North-east and South-west; whereas the Country Sir H. Willoughby landed upon, was a large Country (inasmuch as he fail'd many days by the side of it) and hes North and

South which must be Greenland. Edge's Island.

Island was discover'd 1616, by Capt.

T. Edge, who had made that Voyage

Gentleman of that Name) was found

Wyche's- Island (so call'd from a
Gentleman of that Name) was found
out 1617, but there being nothing

remarkable come to our knowledge concerning these, we pass them over. Only it is worth noting, that both the Whale and Morse-sishing was known and practis'd 800 Years ago, as appears by the Relation which Octher the Norwegian made to his Loid Alfred King of England; where he also faith, that the Morses were hunted for their Teeth, which were mightily esteem'd.

Cherry Island, when first discover'd I know not, but it receiv'd not its Name,

cherry.

Island.

nor was known to be of any Profit, till 1603, when a Ship fet out at the Charge of Sir Francis Cherry touch'd upon it, and found there some Lead, and a Moris's Tooth; but staid not to fish, because the Year was too far spent. However, they called a cin honour of Sir Francis Cherry, for whose use

they took possession of it) Cherry-Island.

Moss- In 1004. a Ship fer sail (Mr. Welden the

tiffing. Merchant, and Stephen Bennet the Mifter) from London, April 15, and arrived at Col-

1:4

l Island, and whereas the upon, was a e fail'd many s North and reraland. Edge's 616, by Capt. e that Voyage call'd from a ne) was found being nothing our knowledge over. Only it he Whale and tis'd 800 Years which Octher Alfred King of hat the Mosses , which were

not its Name, e of any Profit, up fet out at the ouch'd upon it, and a Moris's ecause the Year they call'd'r, for whose use Island.

(Mr.Welden the Sennet the Mr arrived at Col in Lapland, May 1. They staid in Lapland till July 1. and July 8. they came in fight of Cherry; and they came to an Anchor on the South-foutneast side, but, because of the Stream, could not land; fo that they failed round about the Isle. and at length anchored two Miles from the Shore. Going on Land, one of them with his Gun killed as many Fowl as almost laded their Boar. July 9. they found on Shore nothing but store of Foxes; that part of the Island was in 74 deg. 45 min. July 10. they weighed Anchor, and flood into another Bay, and came to an Anchor in eight Fathoms, where they faw an incredible number of Morsses swimming in the Sea. Coming to shore, they espied a vast Company of them lying on the Ground; they shot at them with three Guns they carried with them, but with all their Weapons they could kill but 15 of above 1000, that lay there like Hogs huddling together on heaps; but they found as many Teeth as filled an Hogshead. Before the 13th they killed near 100 more, making use only of their Teeth.

In 1605, the same Persons went again, arriving there July 2. They went on shore, and July 6, slew abundance of Mossses, and not only with Shot, as they did the Year before, but with Launces dexterously used, directing them to certain places of their Bodies; they began also to boil their Blubber, and made 11 Tuns of Oil, (five of their Bellies will yield one Hogsshead) and abundance of Teech. Here also they sound a Lead-mine under Mount miser,

and brought away about 30 Tun of the Oar.

In 1606, the same Ship, with the same Perfons, was sent again, and landed July 3, in 74 deg. 55 min, where they staid till the Ice was all cleared; for the Morsses will not come to shore till the Ice be all vanished, where, at one time in six Hours, they slow betwixt 7 and 800 Morsses, and two great Boars; they made 22 Tuns of Oyl, and 3 Hogshoad of Teeth.

In 1608, June 21, was so hot that the melted Pitch ran down the sides of their Ship: in seven Hours time they slew above 900 Morsses, making 31 Tuns of Dyl, and above 2 Hogsheads of Teeth, besides 40 more. They took alive into their Ship two young Morsses, a Male and Female; the Female died, the Male lived ten Weeks in England, where they taught it many

things.

In 1610, at another Voyage with two Ships, they killed many Bears, and faw divers young ones, no bigger than young Lambs, very game some and luity; they brought two of them into England. Much Fowl also they slew, and many Seals; and fame 15, set up an Ensign in token of Possession of the Island for the Island covia Company: In Gall-Island they found three Lead-mines, and a Coal mine on the North side of the Island. Three Ships more also carre to fish at Cherry-Island: they killed 500 More set at one time, at other times near 300 mor.

Man killing 40 with his Launce at one 13 by Hunting.

n of the Oar, the fame Persit July 3, in 74 ill the Ice was ill not come to where, at one betwixt 7 and ars: they made if of Teeth.

chat the melted Ship: in feven Morsses, ma2 Hogsheads of took alive into Male and FeMale lived tentaught it many

with two Ships, w divers young be, very game wo of them methey flew, and p an Enfigh in d for the Mark on the North more also Marking 300 more, and e at one 13 is

The Morfs, Walrush, Horse-whale, Rofmarus, or Sea-horfe, (for fo he is by the Ancients often called, though of late they have discover'd another Fish not unlike him, with strait Teeth, which they call a Sea-horse) hath a Skin like a Sea-cal, (with short and sad vellow Fur) a Mouth like a Lion; if any, hardly difcernable, Ears, yet they hear well, and are frighted with noise; (which also is faid of the Whale, that he is driven away with the bund of a Trumpet) large Breaft, short Thighs, four Feet, and upon each Foot five Toes with short sharp Nails, with which they dimb the Ice; and as large as a great Ox, having a great femicircular Tusk growing on each side of their upper Jaw, which are very nuch valued, especially by the Northern People, partly for their uses in Medicines, as to make Cramp-rings, (which they make alfo of the Bristles upon his Cheeks) to resist Poion and other malignant Discases, wherein they are at least equal to that call'd the Uniorn's Horn; but more for their Beauty, which b equal to, if not furpaffing, Ivory. finels of it makes it much fought after for Handles of Swords. Their Skins being drefld, are thicker than two Ox-hides, yet light, and excellent to make Targets against Darts and Arrows of the Savages. They feed upon Fish and Herbs, and sleep, if there be Ice, Ipon that; where if furprifed, the Female alls her young ones (of which she hath commoniv

A Supplement to

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monly two at a time) into the Sea, and he felf after them, fwimming away with ther in her Arms, and if provoked, after she hat fecur'd them, returning many times to fet up on the Boat, into which if the can fasten he Teeth, she will easily fink it. But if they b farther from the Water, they all rife up to gether, and with their weight and force fall ling upon the Ice, endeavour to brake it; a they did when surprised by Jonas Pool is 1610, where himself and divers of his Me escaped drowning very narrowly; one them being in the Sea, the Morsses set upon him with their Teeth, but with very great labour and hazard of his Company he escape from Death, though fore wounded. Fre quently also they sleep on the shore, and i they have convenience, upon a high and steep They always go in great Companies and fet one to keep watch; which if furprise asleep, 'tis an easie matter to kill all the rest but if he give warning by grunting, the clap their hinder Feet under their two Tusks and fo roll into the Sea. But if they b caught on plain Ground, yet they are hard flain, being both strong and fierce, and a hasting one way to the Water. The Duto at first were very much troubled to ki them, their Shot the Beaft valued not much their Hatchets and Half-pikes would me pierce them; nor did they think they con be killed, except struck with great force

ne Sea, and her way with them I, after the hath times to fet upter and faften her But if they be all rife up to the and force fall.

ht and force falto brake it; as Jonas Pool in ivers of his Men crowly; one of Morstes set upon with very great apany he escaped wounded. Frene shore, and if a high and steep

which if furprised kill all the rest, grunting, they their two Tusks, But if they be they are hardly and all

great Companies,

ter. The Dutch troubled to kill valued not much pikes would not think they could the great force in

the midst of the Forehead. The first time they set upon them, of two hundred they could not kill one, but went for their Ordnance to shoot them. Our Men, after a little Experience, found the way to dispatch them with Javelins, as is before rehearsed.

Some imagine this to be John Mayen's Island, but it seems rather that it is not; for the Northermost Point of that is in the 71 d. 23 m. whereas this is 74 d. 55 m. except the Dutch be not fo accurate in their Observations and Calculations as were to be wish'd, which I much tuspect, v. Nova Zembla. Besides Cherry Mand is round, not frequented with Whales but Morsses. Our Men also have travell d it on Foot from North to South, which on Majen's Island cannot be done; and though they tell many Particulars of the Place, yet they never mention the great Beerenberg. Hope Island indeed is a long Island, lies much what as they fay of Majen's, and hath been visited by the Whale fishers, but it is more North than they place their Island. itch of ascribing Discoveries to themselves hath brought (I fear) Confusion both in this and many other Matters of this Nature.

John

## 10 HN MAYEN's Island.

Y Ohn Mayen's Island, so called from the Name of the first Discoverer, (as the Dutah pretend) feems by the English to be called Hope-Island, or if not, I know not whether the English have been upon it. It feems not to be of any great Confequence, all that is spoken of it being that it extends in length from South-west to North-east. The farther it shoots out in length, the more contracted and narrower it grows in grows in breadth; so that in the middle the distance is very small between both Shores. Before the Whale-fishing was removed to Greenland, in the Summer-time this Island was much frequented by the Seamen, whom Trade invited thither; and the Island was well known to most of the Northern Adventurers of Europe; but fince the Whales have deferted those Shores, and have removed their Sca-quarters farther to the North, the Scamen and Fishermen have been forced to tollow their Prey to Greenland. For it feems the Whales, either weary of the Place, or fensible of their own danger, do often change their Harbours. In the Spring time Western

Island.

ed from the erer, (as the Enolish to be I know not upon it. lt Confequence, that it extends o North-east. in length, the er it grows in the middle the n both Shores. is removed to me this Island Beamen, whom the Island was brthern Advene Whales have have removed the North, the been forced to For it feems d. of the Place, langer, do often he Spring time

Weltern

Western side of the Island is not so much enclosed with Ice, as that which lies in the North, where it runs out into the Sea, with a sharp Point behind the Mountain of Bears; for on this fide, all the Year long, the Ice never removes from the Shore above ten Miles; and in the Spring time so besieges it, that there is no Passage through it. For which reason the Mariners, who are bound for this Island, use all the Care they can to avoid the Eastern, and to make directly to the Western Shore, there to lve while the Fishing Season continues; if by miscarriage they come upon the East-side, they are then forced to fetch a compass about the North part of the Island, whereby they are not only exposed to the terrible Winds that blow off from Bears-Mountain, but also to the dangers of the floating Ice; for here the Sca flows from South to North, and ebbs from North to South. At the Northern end of the Island appears the Bears-Mountain, of a prodigious height, and so perpendicularly steep, that it is impossible to climb to the top of it. This Mountain, from the Bears there frequently feen, called Beerenberg or the Bears-Mountain. at the bottom takes up the whole space between the Eastern and Western Shore; on the North fide it leaves a little room for leveller Ground to the Ocean; and being of prodigious height, may be descry d 30 Miles off at Sea.

0 3

The

198 The Sea Coast lies thus: 1. Noords-hoeck. or the Northern Angle, is the extream Point shooting out to the North. 2. Oest-hoeck is the most Eastern Point. Tsbergh, mark'd 1, 2, 3, are three Mountains of Ice, or rather vast heaps of congealed Snow, which dissolved by the heat of the Sun, falls from the top of Bears Mountain, but upon the Sun's retiring freezes again. 3. Zuydust-hoeck is the South east Angle. From this Point the Shore extends itself from East to West to a little Island, and then winds again to the West and South; in some Places not passable by reason of its steepness, in others smooth enough. 4. Cleyn Sand-bay, or Little Sand-bay, Eyerland or Eggland, being certain Rocks full of Birds; here, about a Musket-shot from Shore, the Sea is 60 Fathom deep, and a little farther, the founding Line will not reach to the bottom. 5. Groote Hoote-bay, or great Wood Bay, by reason of the great pieces of rotton Timber that are there found. In this, which is the narrowest part of the Mand, are certain Mountains not very steep, from the top whereof any Person calling them that stand upon either Shore, may be

heard by both. 6. Cleyn Hoote-bay, or little Wood Bay. 7. English-bay, and several others, to which the Dutch have given such

Names as they thought fit:

GRONE-

Noords-hoeck, stream Point 2. Oest-hoeck bergh, mark'd of Ice, or ra-Snow, which in, falls from pon the Sun's oft-hoeck is the oint the Shore est to a little to the West t passable by ers smooth eittle Sand-bay, ain Rocks full ket-shot from deep, and a line will not oote Hoote-bay, of the great re there found. It part of the not very steep, Person calling Shore, may be e-bay, or little nd feveral oave given such

GRONE-

## GRONELAND.

Alled also Groanland, Groinland, and more anciently Engroenland, lies (as Islanders say) like a Half-moon about the North of their Countrey, at the distance of sour Days sailing: But it seems to lye not so much East, but rather North of America. From Cape Farewell, in 60 deg. 30 min. on the South, it is unknown to how many degrees in the North. The East and West are encompass'd by two great Oceans, but at what degrees of Longitude is not yet discovered. Only Mr. Fotherby sound it near the Coast of Groneland, in 71 deg. and the South of Greenland to be above two hundred Leagues.

It is faid to have been discovered first by a Norwegian Gentleman, whose Name was Eric Rotcop, or Read Head; who having committed a Murder in Iseland, to save his Life, resolved to adventure to another Country, whereof he had heard some obscure slying Reports. He succeeded so well, that he arrived in tase Harbour called Sandslasm, lying between two Mountainous Promontories; the one

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upon an Island over against Groneland, which he called Huidserken or White Shirt, because of the Snow upon it; the other on the Continent, called Huarf Eric. He winter'd in the Island, but when the Scason sufferd, passed into the Continent, which because of its greennets and flourishing he called Groneland. Thence he fent his Son to Olaus Trugger King of Normay, to get his Pardon, which was eafily granted, when he was inform'd by him of his new Discovery. Whereupon divers Gentlemen adventur'd to plant there, who multiplying, not long after divirled the whole Country into Eastern and Western, and built two Cities, Garde and Albe. In Albe was a Bishop's See, and a Cathedral Church dedicated to St. Anthony; the Seat also of the Viceroy sent thither from time to time by the Norwegians. They write also of a great Monastery called of St Thomas, wherein was a Spring, whose Water was so hot, that it dressed all their Meat; and being conveyed into the Cells and other Rooms in Pipes, heated all the Monastery as if it had been to many Stoves. They fay allo, that this Monaflery is buit all of Pumucestones, and that this hot Water falling upon them, mixes with the outer parts, and produces a fort of clammy Matter, which ferves instead of Lime.

eland, which hirt, because on the Conwinter'd in ison sufferd. nich because ng he called Son to Olass : his Pardon, n he was inery. Whereur'd to plant ng after divi-Eastern and s, Garde and ee, and a Ca-St. Anthony; t thither from . They write of St Thomas, Water was fo Meat; and belother Rooms aftery as if it They fay alto, ll of Pumucer falling upon parts, and pro-, which ferves

But what the Norwegians conquered or pofsessed in this Country was an inconsiderable corner of that large Continent. Themselves mention a Nation whom they call Skrelingers, to have inhabited in the middle of the Land, but what they are we know not. But whether their Paucity exposed them to the meralefness of the Natives, or whether it were an Epidemical Difease which they call the black Plague, which fwept away not only most of that Nation in Groneland, but also the Merchants and Mariners in Norway, that maintained that Traffick, or whether it were some other Reason, which is now forgotten; to it is, that fince 1349, little Intelligence hath descended to us concerning Groneland, till feeling the North west passage to China, occasion'd more knowledge of it. they fay, that the King of Denmark fent a Fleet thither, with intention to re-establish his Dominion in those Parts; but that being cast away, discouraged him from any further Enterprize; till now of late Christian IV renewed somewhat again of that Navigation, of which by and by. In 1406, the Bishop of Drontheim tent a Priest (called Andreas) to fucceed Henry Bishop of Carda, if dead; falive, to return and bring notice of the the state of the Church there. But Andreas never came back; nor hath there been fince any further care taken to fupply Bishops, or maintain Christianity there. There is a Rela-

But

Relation in Purchas's Pilgrim, par. 3. of one Ivoy Boty a Gronelander, translated 156c, out of the Norweighish Language, which gives a sufficiently particular Account of all the Places in that Country that are in. habited by Christians, but of nothing besides.

The occasion of our Voyages to those Coasts, was to find out a way to China, &c. by the North-west, which had been fruit.

lefly fought toward the North-East.

The first whom we read to have search'd the North-West for a Passage, was Martin Frobisher, who in 1576, with two Barks coming to the height of 62 deg. found a great Inlet, called by him Forbifber's Straits, whereinto having failed 60 Leagues with main Land on either side, returned. He found there a certain Oar, which he conceived to be of Gold; and the next Year he made a tecond Voyage to tetch a quantity of it, but answer'd not expectation; yet they found a Silver Mine, which lay fo deep and fast in the Rocks, that they could not dig it. They melted Gold also, but in very small quantities, out of several Stones they found there upon Smith's Isle. They found also a dead Fish, of about twelve foot long, not unlike in shape to a Porpoise, having an Horn six foot long (fuch as is commonly call'd Unicorn's Horn) growing out of his Snout, which

1, par. 3. of anslated 1560, guage, Which Account of that are in. f nothing be-

ages to those to China, &c. ad been fruit--East.

o have fearch'd e, was Martyn wo Barks comfound a great Straits, where ies with main d. He found ne conceived to ear he made a intity of it, but it black Lead. et they found a eep and fast in et dig it. They y small quantiiey found there ind also a dead long, not unlike ng an Horn fix

only call'd Uni-

his Snout, which

is still kept at Windsor. In 1578. he went out again upon a Discovery, wherein passing as far as he thought good, he took possession of the Land in the name of Queen Elizabeth,

calling it Meta incognita.

In 1582. Sir Humphrey Gilbert upon the fame design went to the great River of St. Laurence, in Canada, took possession of the Country, and feetled a Fishing-Trade there. This Voyage I suppose was made upon suggestion of a Greek Mariner, who assured some of our Nation, that himself had passed a great Strait, North of Virginia, from the West or South Ocean, and offered to be Pilot for the Discovery, but died before he came into England.

In 1585. Mr John Davis was employed with two Barks to the same search. first Land he came to, he named the Land of Desolation, and is one part of Groneland; then he arrived in 64 deg. 15 min. in Gilbert's Sound, where they found a great quantity of that Oar, which Frobisher brought into England, and also Lapis Specularis. Thence they went to 66 deg. 40 min. to Mount Raleigh, Totness Sound, &c. where they saw some few low Shrubs, but nothing else worth no-

ting.

In 1586, he made a fecond Voyage to the ame Place, where he found amongst the Natives Copper Oar, as also black and red Copper. Thence they fearched many Places WestWestward, and returned with good hopes of

discovering the defired Passage.

In 1587. he made a third Vogage, to 72 deg. 12 min. the Compass varying to 82 deg. Westward, the Land they called London Coast; and there they found an open Sea, and forty Leagues between Land and Land, thinking this to be the most likely place to find the Passage; and it was from him called Fretum Davis:

Thus from time to time proceeded the discovery of these Countries, but now not upon hopes of a Passage to the Indies, but for the prosit of Trading: till Mr Hudson, in 1610, after he was satisfied, that there was no Passage North-easterly, was sent to make a Tryal here also. He proceeded an hundred Leagues sarther than any before had done; and gave Names to certain Places, as Desire-provokes, Isle of God's Mercies, Prince Henry's Cape, King James's Cape, Queen Ann's Cape, and the like; but the Ice hindred him from going surther, and the Sedition of his Mentrom returning home.

In 1612. James Hall returning into England, and with him William Baffin, who discovered Cockin's Sound, in the height of 65 deg. 20 min. which differed in Longitude from London 60 deg. 30 min: Westward. They saw also the sooting of a great Beat they supposed an Elk, or the like. James Hall was killed in the Boat by a Native pre-

tending

good hopes of

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Baffin, who dilte he height of 65 in Capt. In the min. Westward, failing Resolution of the like. James by a Native presented in the fier's tending

tending to Trade with them. They tryed the Mine at Cunningham's River, which the Danes had digg'd before, and found it to be nothing worth. There were Rocks of very pure Stone, finer and whiter than Alabaster, and Angelica growing plentifully in many Places, which the Savages used to eat.

In 1615. Mr. Baffin was fent again; he found Fair-Point to differ in Longitude from London 74 deg. 5 min. Westward. But the chief thing they discover'd was, that there was no Passage in the North of Davis Straits, it being no other than a great Bay; but that prosit might be made by fishing for Whales, Morsses, and Unicorns, of which there are good store.

In 1616. Mr. Baffin went again. In Sir Tho. Smith's Sound, 78 deg. Lat. their Compass varied 56 deg. Westward, the greatest variation that is any where known. Despairing to discover their desired North-west Passage, they returned home, and since that we hear of no more Voyages made from England upon that design, except by Capt. James, in

This Ingenious and most Skilful Navigator. Capt. Tho. James was petter'd with much Ice in these North-West Seas in June and July, sailing from Cape-Farewell, by the Island of Resolution, to Mill's and Nottingham Isles, as also that call'd Manssield, from whence he steer'd over a great Bay to the Westward,

near

near Port-Nelson, and named the Land New South-Wales. He met hereabouts with Capt, Fox, in one of his Majesty's Ships, who had been in Port-Nelson, but they were soon parted by bad Weather. Capt. James continued to roving up and down these Seas, and giving Names to his Discoveries, as Cape Henrietta Maria, Lord Weston's Island, The Earl of Bristol's Island, Sir Thomas Ree's Island, Earl of Danby's Island, Charlton Island, where he winter'd in the Lat. of 52 deg. 30 min. from whence he return. ed home in 1632. having built a little Pinnace out of his Ship, in which he passed over to Cary's Swans-Nest, and so by Cape Charles and Salisbury-Isle homewards, having made many additional Discoveries beyond Hudson, Button, and Baffin.

This Island (saith Capt. James) and all the rest (as well as the Main) is a light white Sand, cover'd over with a white Moss, and sull of Shrubs and low Bushes, excepting some bare Hills and Patches, where the Sand will drive with the Wind like Dust. 'Tis sull of Trees, as Spruce, Firrs, and Juniper, which together with the Moss will take fire like Torches or Flax. We found great store of an Herb like Scurvy-grass, which boil'd, did extreamly restess us. We saw some Deer, abundance of Foxes, a sew Bears, and some little Beasts. In May there came some Fowl, as Ducks and Geese; white Partridges we saw; Fish we could never see any in the

he Land New ts with Capt, lips, who had ere soon part. mes continued is, and giving Cape Henrietta Earl of Brislot's Earl of Danby's winter'd in the ence he returna little Pinnace passed over to ape Charles and g made many Hudson, Button,

a light white ite Moss, and nes, excepting where the Sand ke Dust. Tiss, and Juniper, will take fire and great store, which boil'd, saw some Deer, ears, and some me some Fowl, Partridges we see any in the

Se2,

Sea, nor any Bones of Fish on the Shore side, excepting a few Cockle-shells. The Muskitoes upon our coming away in July were most intolerable, there being no Fence against them. The Climate (of the Isle of Charleton) is most unnatural, the Days in Summer being excefsive hot, and the Nights sharp Frosts, even to an inch thickness in the Ponds, and all this in June and July. Here are divers forts of Flies, as Butter-flies, Butchers-flies, Horseflies, infinite numbers of Ants and Frogs, plenty of Vetches, which recovered our Scorbutick Men. And yet that which is most wonderful, the Winter is as severe here as in any place lying 30 degrees more Northerly.

The King of Denmark also, partly to advance the Trading of his own, and partly to renew his ancient Pretence to that Country, if any thing should be discover'd worth the claiming whilst the English were busic in these Discoveries, set out two Ships and a Pinnace 1605. the Admiral was Capt. John Connigham a Scot, Godske Lindenaw a noble Dane was Vice-Admiral, the chief Pilots were James Hall and John Knight, English-Men. Godske arrived on some part of the Country where he traffick'd some small matters with the Natives, took two of them, and returned into Denmark. The other two Ships arrived at Cape Farenell, thence went Frobssher's Straits,

gave

gave Danish Names to divers places, trades with the Natives, of whom they brought a way three, and found certain Stones in a place called Cunningham's Ford, out of an hundred pound of which were extracted twenty-fit Ounces of fine Silver.

In 1606. he sent again for four Ships and and a Pinnance Goaske Lindinam Admiral and James Hall Pilot-General, they brough

away Five of the Natives.

In 1607. James Hall was fent again, but the Seamen mutinying as foon as he came to the Coast, brought the Ship back again into

Denmark, without any thing done.

The King of Denmark let out two Ship more, under Christian Richardson an Holsteiner with Norwegian and Iselandish Mariners, who returned before they faw Shore. More of their Expeditions we know not, till 1619 when he fent cut John Munck with two Ships They arrived fate at Cape Farewell, 60 deg 30 min. where their Tackle was fo frozen and full of Isicles, that they could not have dle them; the next Day was fo hot, that they could not endure their Clothes, but wrough in their Shirts. The South part of Hudjon Bay he called Mare Novum; that part toward Groneland, Mare Christianum. He arrive in 63 deg. 20 min. where he winter'd, and call'd it Munck's Winter-Harbour, and the Country New Denmark, (it seems to be new Digo

the

places, trade Digg's Island.) In that long Winter he there ney brought a endured, little of Note happen'd, but that in of an hundred quantities of Fowls, of divers forts, to breed ted twenty-fin those quiet undisturbed places. Company, which was Forty Six in one Ship, four Ships and and Sixteen in the Pinnace, scarce so many dinam Admiral were left alive, as were able to bring the Pin-, they brough nace thorow very horrid dangers, to their own

Country.

ent again, but If any one defire to know what became of on as he came whe Eight Gronelanders brought at several pack again into times into Denmark, the Account is this: The lone.

King commanded great care should be taken out two Ships of them, appointed certain Persons to attend on an Holftstrom hem, to give them Liberty enough, so as Mariners, who hey prevented their escape. No Necessary nore. More our Conveniency was wanting; their Food not, till 1619 ich as they could eat, Milk, Butter, Cheese, with two Ships flesh, and Fish, but raw. They could eat arewell, 60 deg to Bread, nor boil'd Meat, but nothing so was so frozen nuch abhorr'd by them as Wine, or Brandy. could not han Their pleasantest Beuvrage was Train Oyl. so hot, that they but whatever was done to, or for them, s, but wrough ould never take away that Melancholy and part of Hudjon Chagrin which they continually lived in for at part towards he want of their beloved Country. They

He arrive ould never be brought to learn much of the e winter'd, and anish Language, or to apprehend any thing ms to be neglent back towards their own Country 1606. Digg: P

the most towardly and hopeful, who might ferve for Interpreters and Brokers to the Danes; but two of them, Oxo and Omeg, died in the Ship, and the third (because the Danes durst not land or trade by reason of the great numbers of Natives that appeared in Arms on the Coast, ready to revenge them that had been before carried away) was brought back into Denmark, to his former Treatment. An Ambassador arriving there from Spain, the King was pleased to shew him those Savages, and their dexterity in rowing, which was by all the Spectators admired. The Ambassador fending them Money, one of them had the courage to buy him Clothes after the Danill Fashion, got a Feather in his Cap, Boots and Spurs, and all things ala cavaliere; he came also to the King, and defired to serve him: but this fervor was quickly decay'd, and the poor Man returned to his fadness and complaints. Some of them endeavoured to get to Sea in their little Boats, but being retrieved dved of Melancholy. Two lived divers years at Koldingen in Jutland, where they were employed in diving for Pearl Mufcles; in which their Skill and Dexterity was fuch, that every one that faw them believed they had practifed the same Employment in their own Country. Such Success they had, that the Governour promised himself great Profit thereby; and that in a shore tim

who might kers to the ad Omeg, died use the Danes n of the great red in Arms nem that had brought back eatment. An m Spain, the those Savages, which was by e Ambassador hem had the ter the Danish ap, Boots and iere; he came to serve him; cay'd, and the heis and comoured to get to eing retrieved, lived divers , where they r Pearl Muand Dexterity faw them be-

fame Employ.
Such Success
promifed himthat in a fhore

time he should sell Pearls by the Quart, if they continued. But his Covetousness destroyed his Gain; for not content with what they filled in Summer, he also compelled them under the Ice in Winter time; where one of them fell into such a Disease, from the cold to contracted, that he dyed. After whose Death the other never enjoyed himself; but finding an opportunity, he got his little Boat, and before he was over overtaken got to the main Sea. But being brought back, they represented to him the impossibility of his ever getting home to Groneland; but he slighted their Advice, and told them, That he intended to go Northward fo far, and when he was there the Stars would direct him into his own Country.

The Country is mostly all High-land and and Mountains, cover'd with Snow all the Year, but the Southern Parts more than the Northern. They have very little or no Wood growing there, except some sew Bushes, and not many Plants or Herbs; consequently not many Beasts there nourished, but their chief subsistance is upon Fishing. There are divers Mountains, which promise rich Mines of Metal; and some have been found to contain it actually, others only to make a shew. The shabitants know neither sowing nor planting; tho the Soil seem'd to be fertile and pleafant, especially between the Mountains. The

P 2

Nor-

Northern parts, by reason of the terrible Ice and Cold, are wholly undiscover'd; the fouthern confift of many Islands, different in shapes and bigness; which seems to be the reason, that in these Seas are many various and strong currents, (and as Ivor Bot, faith) very many dangerous Whirlpools towards the West and North, none of which however have been found by our Mariners: Country feems much subject to Earth-quakes, elfe very healthful; only it was observed, that those who went thither infected with any Venercal Discase grew worse immediately, and could not there be cured. Which they attributed to the purity of the Air, perhaps they might have done it more rationally to the Cold.

Ivor Boty speaks much also of their great numbers of Cows and Sheep; but our Men found no Beast there, but Bears, Foxes, (very many of which are black) Rain-Deer, and Dogs, whereof are two forts, a bigger, which they used to draw their Sleds; and a lesser, which they feed for their Tables. Our Men observed this peculiarity both in their Foxes and Dogs, that their Pizzles were of Bone. Tho'it is very likely, that there are the fame forts which are in Lapland and Samoieda; but our Men have not fearched any more than the Shores, both because of their short stay, and the Treachery of the Inhabitants.

terrible Icc ver'd; the different in ns to be the nany various r Boty faith) ools towards nich however riners: Earth-quakes, was objerv'd, infected with immediately, Which they Air, perhaps rationally to

of their great but our Men , Foxes, (very Deer, and Dogs, er, which they a leffer, which ur Men observ d oxes and Dogs, Tho' it is one. the same sorts oieda; but our more than the short stay, and nts. 01

Of Fishes there is great both Plenty and Variety, Whales, Seals, Dog-fish; but in these are caught the great quantity of Sea-Unicorns, whose Horns are so much esteemed, and kept as Rarities in the Cabinets of Princes. The Natives here are fo well stored with it, that they have fufficent both for truck and their own use. They make of them (besides other Utensils) Swords, and Heads for their Darts and Arrows; which they work and grind with Stones, till they make them sharp piercing as ours. The Horn grows in the Snout of the Fish, and is his Weapon, wherewith he fears not to fight the Whale, and to affault and sometimes endanger a Ship. The Fish it felf is as large as an Ox, very strong, swift, and hard to be caught, except left on the Shore by the Tide, or entangled by the Weeds.

Fowls are here in great abundance and variety. Our Men have feen those they call Bass-Geese, or such as once a year comes to breed in the Bass, a samous Rock or Island near Edinburgh. The Natives also have a very great Art and Dexterity in making and setting Snares and Springs to catch them; which they do chiefly for their Skins and Feathers. Two or three of our Men with their Guns killed in one Day Fisteen hundred, and sound them worse staffed, better cloth'd than those of the same kind in these Countries;

P 3

they

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they could not eat t' n till flay'd, their Skins being very thick, tough and more cover'd with Feathers, which also were noteafily plucked off; which is the reason that the Natives dress their Skins as they do those of Beasts, and Scals, and make Garments of them, using them to all purpotes like other Furrs; with the Feathers outward in Summer, inward in Winter; which is also observed in all other cold Countries, as well as Groneland.

All Persons, that have been there, give a wonderful and strange account of a certain North-light, as they call it, not easily conceived by them who have not feen it. It appears usually about the time of the new Moon, and tho' only in the North, yet doth it enlighten the whole Country; fometimes also Norway, Iseland, and even these Regions of ours, as C fendus (vita Piresk, & exercit. In doctorem ) faith, himself observed, and at large describes. Nor should I much doubt to affirm, that it is that which is fometimes feen in England, and especially in the Northern parts, call'd Streaming. It is faid to be like a great Pillar (or Beam) of Fire, yet darting out Rays and Streams every way, moving also from place to place, and leaving behind it a Mist or Cloud; continuing also till the Sun-beams hide it.

The Country seems to be inhabited by devers Nations, differing in Habit, Manners and Language. Those whom James Hall found

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flay'd, their more cover'd teafily pluckthe Natives ofe of Beafts, of them, uother Furrs; Summer, inbblerv'd in all Groneland. there, give a of a certain t easily cont seen it. It e of the new rth, yet doth y; fometimes these Regions sk, & exercit. observed, and I much doubt is fometimes in the Nor-It is faid to be Fire, yet darty way, moving

habited by de-, Manners and nes Hall found

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and brought with him, differed much from those with whom Godske Lindenaw had to do: That part which the Norwegians are said to have anciently possessed, was an inconsiderable part of that whole Country, and they sound several Nations there besides themselves, govern'd by several Kings; tho' they write not that they had Wars one with another, but only against them. Our late Discoverers in 66 deg. 50 min. sound a Country which the Natives (as they could understand them) called Secanunga, who also said, that they had a great King, carried on Mens Shoulders, and they called him Cachico. But more Particulars than these, I find not.

The Inhabitants are generally of a low Stature, black Hair, flat nos'd, broad fac'd, Lips turn'd up, and of a ripe Olive colour, fome of them also quite black. Their Women (for their greater Ornament doubtless) stain their Faces in blue, and sometime in black Streaks, which colour they let into the Skin, by pricking it with a sharp Bone, that it will never be taken or worn out. things they resemble the Samoieds and Laplanders. They are very active and strong, yet could some of our English run swifter, and leap farther than any of them, but they were hard enough for any of ours at wrestling, They also are very courageous, and sometimes desperate; for rather than be taken by our

P 4

Men,

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Men, they will throw themselves down the Rocks and Mountains. Extreamly thieviffs, treacherous, and revengeful they proved; nor could any kindness or fair-dealing win them; but as true Barbarians, never omitted any Opportunity of fulfilling their Defires; they would steal when they saw the Mariners look upon them. After they had been well used and treated at their Tables, they would shoot at, sling Stones, wound and kill our Men, if they could. Yet are they apprehensive enough, and quickly conceive yours, and express their own meaning. If they had not feen what was asked them, they winked, or covered their Eyes; if they understood not, stopt their Ears, and the like. They delight exceedingly in Musick, to which they would keep time both with their Voice, Hands and Feet; wonderful also affectionate one to another, and to their Country. In one Voyage there went a Danish Mariner, with black Hair, flat Nos'd, and other, tho' not very exact resemblances of a Gronelander; as foon as they faw him, they came about him, kiffed him, hung upon him, and shewed to him all possible demonstrations of Kindness and Affection. And those who were in Denmark never enjoy'd themselves, nor had any content, but continually pined away, and languish'd with Discontent for their Condition, and love of their Country. Their Rehgion

down the hly thieviss, ey proved; -dealing win never omitg their Dehey faw the er they had their Tables, wound and Tet are they kly conceive meaning. If d them, they if they unand the like. lick, to which h their Voice, so affectionate Country. In nish Mariner, nd other, tho' a Gronelander; y came about in, and shewed tions of Kinde who were in es, nor had aned away, and their Conditi-. Their Religion

gion, such as it is, seems to be unto the Sun: for when our People invited them to Conversation, Bartering, &c. they held up their Hands towards the Sun and cried Totan; nor would they come near us till our Men had done the like. But John Munck and divers others, having gone farther into the Country, found Images, fuch as we make of Devils, with Horns. Beaks, Claws, cloven Feet, &c. very ill made; Altars also, and quantities of Bones of Beasts, as of Deer, Foxes, Dogs and the like, near unto them. They feem also, as all Idolatars, given to Enchantments and Sorceries. Our Men have feen them lying flat upon the Earth, and muttering their Prayers or Charms into the Ground, worshipping the Devil, whose proper Habitation they conceive to be under them. In some Diseases they tye a stick to a great Stone, to which they pay their Devotions, and if they can lift it up eafily and lightly, they think their Prayers are heard and Recovery granted. In Winter they retire from the Sea side to the warmer Valleys, where they have their Houses and Towns, which are commonly Caves at the foot of an Hill, round like an Oven, close to one another, and Passages in the inner Parts from one to another; their Doors, which are low and round, open to the South; and they dig Trenches also to draw away the Water that falls or drains from 218

from the Hill. The entrance and fome part of their House stands without the Cave, which they Frame very handsomely and commodioully of the Ribs of Whales join'd artificially at the top, and cover'd with Sealsskins. They raise also one part of their Floor higher than another, which they strow with Moss to sleep upon. But in their Fishing-time they have Tents, which they remove from Place to Place in their larger Boats. They fet up four Poles and cover them with Skins, which ferves very well in Summer; when fishing is done they return with them to their Houses. Their manner of bartering is to make two heaps, one of fuch things as they defire, the other of what they would part with; and they cease not to take away from the one or other till the Trade is ballanced. The chiefest things of ours which they valued, were Knives, Needles, little pieces of Iron, Lookingglasses, &c. for these they would fell their Bows and Arrows, their Boats, and strip themselves of their Clothes, but never, like fome other Barbarians, fell their Wives and Children.

Their Clothing is either of Birds-skins, with the Feathers and Down upon them, or Seals, Dog-fish, or the like. Seals they use most in their Fishing, because that Fish there abounds, and are easily deceived by seeing

d fome part Cave, which id commodijoin'd arwith Sealsart of their h they strow dut in their which they their larger s and cover very well in e they return heir manner heaps, one of other of what ey cease not or other till chiesest things were Knives, on, Lookingould sell their ats, and strip int never, like eir Wives and

of Birds-skins, in upon them, ke. Seals they aufe that Fish y deceived by feeing

feeing one clad in their own Livery; besides that these kind of Furs are not so apt to be wet, though dipp'd in Water. They wear the Hair side outward in Summer, inward in Winter, and in great Colds carry two or more Suits one upon another. They dress their Skins very well, making them dry, soft, and durable, and sow them also very strong with Sinews of Beasts, and Needles made of Fish-bones.

But in nothing do they shew so much Art as in their Boats or Canoes. They are made of that we call Whalebone, about an inch thick and broad, and these not set like Ribs. but all along from Prow to Poop, fast sowed to one another with ftrong Sinews, and cover'd over with Seals-skin. They are from ren to twenty Foot long, and about two Foot broad, made like a Weaver's Shuttle, sharp at both ends, so that he can row either way; and in making this pointedness they are of all things most curious, for therein consists the st ength of their Vessel. In the middle of it are the Ribs, both to keep the fides afunder, and to make the Hole in the covering, wherein the Rower fits. have a Deck made of the fame Materials, which is closely fasten'd to the sides, in the midst whereof is a round Hole, as big as the middle of a Man; fo that when he goes to Sea, he fets himself in that Hole, stretching ing out his Feet forward into the hollow of the Boat; he stops up the Hole so close with his Frock, or loose upper Garment, that no Water can enter, though it were in the borrom of the Sea. His Frock is strait tyed at the Hand-wrifts, and to his Neck, and his Capouch fowed also close to it; so that if the Boat be overturned or overwhelmed in the Sea, he rifes again without any wet either They have upon his Skin or in his Boat. but one Oar, which is about fix foot long, with a Paddle fix Inches broad at either end; this ferves him both to ballance his Boar and move it; which he doth with that incredible scelerity, that one of our Boats with ten Oars is not able to keep company with them: The Danish relation saith, that they rowed fo swift, that they even dazled the Eyes of the Spectators; and tho' they croffed frequently, yet never interfered or hit one another.

Their Fishing ordinarily is darting, their Darts are long, strongly barbed, and at the other end have Bladders fisten'd to them, that when they have struck a Fish, he may spend himself with struggling to get under Water, which yet he cannot do, and so is ea-

fily taken.

Besides these, they have greater Boats for the removing their Tents and other Utensils, as also to carry their Fish they have caught

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e hollow of close with nt, that no vere in the s strait tyed ck, and his b that if the med in the wet either They have k foot long, either end; ce his Boat vith that inr Boats with mpany with h, that they dazled the o' they crossed or hit one a-

larting, their l, and at the n'd to them, Fish, he may to get under, and so is ea-

greater Boats d other Uteny have caught to their Houses; these are thirty and sorry soot long, and have sometimes ten, and sometime more seats for Rowers. Cardinal Bembas (in his Venetian History) saith, that in his time one of these, with seven Persons in it, was by a Storm cast upon the Coast of Britany. I know not whether it be worth mentioning that they have Kettles and Pans made of Stone, (some say of Loadstone) that endures the Fire wonderfully, but not having Tools sit to hollow them sufficiently, they make up the Edges of Whalebone.

## FREESLAND, or FRISELAND.

I leth in 60 deg. more Westerly than any Part of Europe; distant from Iseland Leagues. It is reported in bigness not to be much lesser than England; a ragged and high Land, the Mountains cover'd with Snow, and the Coast so full of drift Ice, that it is almost inaccessible.

It was first discovered to us by Nicolao and Antonio Zani, two Venetian Gentlemen. that were here shipwrack d. They describe the Inhabitants to be good Christians, very civil, and to be govern'd by a great Lord whose Name was Zichmay, whose mighty Conquests, and strange Accidents may be read in Hackluit. It is not our business to write or repeat Romances. Those Men whom our Seamen, (touching there accidentally) faw, were like in all things to the Gronelanders, both in Features of Body, and manner of Living, as much as they could judge; fo like, that many of them thought it continued to Groneland; in which Opinion also they were confirmed by the multitudes of the Islands of Ice which coming from the North, argued Land to be that Way; for many of our Mariners hold, that falt Water doth not freeze, but that all the Ice they find in the Sea comes from the Bays, and Mouths of fresh Water Rivers; for the Ice it self is fweet and fresh, being dissolved, and serves for all purposes, as well as Spring or River Water. Besides the salt Sea (they say) is always in motion, and so cannot freeze. But the Dutch, who winter'd in Nova Zembla, took Notice, that the falt Water freez'd, and that two Inches thick in one Night.

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by Nicolso Gentlemen, ey describe lians, very great Lord ose mighty its may be business to Those Men ere accidenngs to the Body, and they could em thought nich Opinion e multitudes ng from the ay; for mat falt Water Ice they find and Mouths Ice it felf is l, and ferves ng or River they fay) is nnot freeze. 'd in Nova falt Water thick in one There feems to be good Fishing every where upon the Coast. In their foundings they brought up a fort of pale Coral, and little Stones clear as Crystal. They call it West England, and one of the highest Mountains they called Charing-Crofs.

 $F I \mathcal{N} I S.$ 

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