

CIHM Microfiche Series (Monographs)

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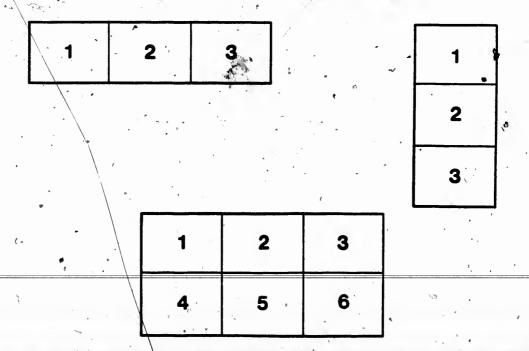
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COMPILED CHIEFLY FROM THE SURVEYS MADE BY ORDER OF THE

British and French Gobernments,

BY CAPTAINS H. W. BAYFIELD, E.N. ; F. BULLOCK, E.N. ; JAMES COOK, E.N. ; MICHAEL LANE, DES BARRES, LOCKWOOD, LAMBLEY, AND OTHERS ; AND BY CAPTAIN C. F. LAVAUD, OF THE FRENCH NAVY.



CHART AND NAUTICAL BOOKSELLERS, 193, MINORIES

1866

COMMUNICATIONS FOR THE FUTURE IMPROVEMENT OF THIS, OR ANY OF OUR WORKS, WILL BE THANKVULLY RECEIVED AND ACKNOWLEDGED.

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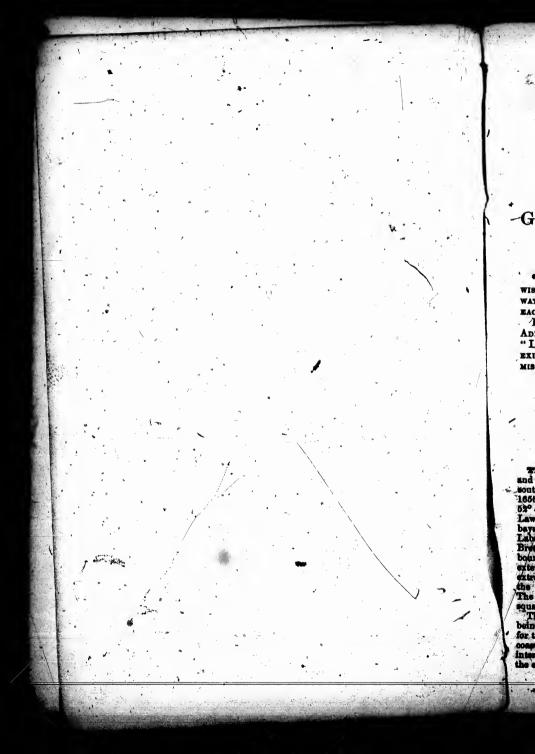
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SAILING DIRECTIONS POR THE

GULF AND RIVER ST. LAWRENCE.

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IT HAS BECENTLY BEEN ORDERED BY THE LORDS COMMISSIONERS OF THE ADMIRALTY THAT THE WORD " PORT" IS TO BE SUBSTITUTED FOR THE WORD " LABBOARD," IN ALL H.M. SHIPS OR VESSELS, ON ACCOUNT OF THE SIMILARITY EXISTING BETWEEN THE WORDS STARBOARD AND LARBOARD, FROM WHICH MANY MISTAKES HAVE ARISEN.

PART L

NEWFOUNDLAND.

GENEBAL REMARKS.

and the nearest to Europe. The distance between the island of Valentia on the south west coast of Ireland, and St. John's on the east coast of Newfoundland, is 1656 nautical miles. The island is situated between 46° 40' and 51° 89' N. lat., and 1000 nannost miles. I no instant is investigated of the entrance to the Gulf of St. 52° 44' and 59° 51' W. long., on the north-east side of the entrance to the Gulf of St. Lawrence. The form of it is very irregular, and the shores are broken by numerous Lawrence. The form of it is very irregular, and the shores are broken by numerons beys and harbours. Its morth western extremity is separated from the coast of Labredor by the Strait of Belle Isle. The south west point is opposite to Cape Broton; it is open on the east to the Atlantic, and its west coast forms the eastern boundary of the Guilf of St. Lawrence. Its extreme length, measured on a line extending from Cape Race in the south-east, to Cape Norman, at its morthern extending from Cape Race in the south-east, to Cape Norman, at its morthern extending from Cape Race in the south-east, to Cape Norman, at its morthern extending from Cape Race in the south-east, to Cape Broton, is about 250 miles. The island has never thoroughly been surveyed, but it is computed to contain 85,600 square miles, though some estimates make it considerably more. The appearance of Newfoundiand, from the east is extremely rugged, the coast line for the purpose of prosecuting the fishery : they have been uniformly placed on the coast, and few or no attempts have been uniformly placed on the coast, and few or no attempts have been uniformly placed on the coast, and southern shores, and particularly the former. The only large to wn the eastern and southern shores, and particularly the former. The only large town

on the island is St. John's, situated in about 47° 85' N. lat., 52° 88' W. long., on the east side of the island, which, besides being the seat of government, is the principal harbour for trading vessels.

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Newfoundland was probably first discovered by the Northmen about the year 1000. John and Sebastian Cabot, on their second voyage, discovered Cape Bonavista, on this island, on the 24th of June, 1497. Landing in the adjoining bay, they found several natives dressed in the skins of animals, and formally took possession of the island, which they called Baccalace, the name given to cod-fish by the natives; & name, it may be remarked, which has been adopted into the language of Portugal (bacalhao), from which country some adventurers subsequently proceeded to the island and formed a settlement, from which they were driven by the English under Sir Francis Drake in the reign of Elizabeth. In 1610 a charter was granted to a company of adventurers of London and Bristol, for colonizing Newfoundland, and a colony was established at Conception-Bay. Four years later, courts of justice were established by royal authority in the island; and the first Lord Baltimore, in 1623, established a flourishing colony at Ferryland, on the east coast, where he himself resided for many years. From this time numerous settlements were continually made along the east coast by the English, while the French established themselves on the south, at Placentia, in the bay of that name, and maintained possession of it until the treaty of Utrecht, in April, 1713. By this treaty Newfoundland and its dependencies were declared to belong wholly to Great Britain, but the French were allowed to fish and cure what they sheuld catch on some parts of the shore, but were not allowed to erect fortifications or any other buildings, except such as were strictly required for the purposes of the fishery.

It was agreed in 1818, that the vessels belonging to the United States should have, in common with the British subjects, the privilege of catching fish on the southern coast, between Cape Ray and the Ramea Islands, and on the western and northern coast, from Cape Ray to the Quirpon Islands; also on the shores of the Magdalen Islands, and on the coast, bays, harbours, and orecks of Labrador, from Mount Joli through the Straits of Belle Isle, and thence northward, indefinitely along the coast as heretofore, but without prejudice to the exclusive rights of the Hudson's Bay Company. And they have also the liberty to dry and cure fish in any of the unsettled bays, harbours, and creeks, of the southern parts of Newfoundland and Labrador, but so long only as they shall remain unsettled.

DANKES OF NEWFOUNDLAND.—To the eastward, as well as to the southward of the Island of Newfoundland, are several extensive sand-banks, abounding with fish of various kinds. In sounding, the bottom is commonly covered with great quantities of shells, and frequented by shoals of small fish, most of which serve as food for the cod; and these thrive so amazingly, and are so inconceivably numerous, that although many hundreds of vessels have been annually supplied with them for more than two conturies, yet such a proligious consumption has not apparently diminished their numbers. The fishery is not confined to the banks, but settends, in equal inxuriance, to the shores and harbours of Newfoundland, Nava Soctia, and Breton Island. The fish commonly are most abundant where the bottom is sandy, and the depth about 30 fathoms; where the bottom is of mud they are observed to be less numerous. In winter they appear to retire to the deep water, but in February, March, and April, they ome again on the banks, and fatten rapidly.

March, and April, they dome again on the banks, and fatten rapidly." THE GREAT BANK to the south-castward of the island, extends from about the lat. of 45° N. to 47° 49' N. Its form, like that of the other banks, is not easily defined : but about the latitude of 45°, its breadth is nearly 5 degrees, whence, to the southward, it narrows almost to a point, and seems suddenly to drep into fatbomless water. The north and, which is nearly in the latitude of Cape Spear, is about 60 miles screes, having 45 to 48 fathems, and and abells. In the latitude of Cape Reser, or in 46° 40° N. and long. 47° 80° W., soundings in 78 fathems, whitish send, will be obtained ; this will be about 140 miles to the eastward of the Virgin Rocks. Although, in this parallel, the Grand Bank extends farther to the sativard, than when you are farther to the senthward, it sannet be recommended as a safe one, on account of the

"In "British America," by Mr. McGregor, Vol. 2, 1882, is given a copious description of the mode of fighing and, suring in Newfoundland, as shown also, by a question from the same work, in the "Newsteel Magnetice," June, 1883, p. 180.

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GENERAL REMARKS.

rocky sheal of only 21 feet water; of about 100 or 200 fast in extent, reperted to have been seen by Mr. Jesse Ryder, of the fishing schooner Bethel, in 1845, in lat 46° 80' and about 50 miles to the eastward of the Virgin Bocks; it is, therefore, necessary to proceed with caution when running on this parallel. We will suppose that you are approaching the St. Lawrence from the eastward, in that case, in lat 45° 30', you will obtain soundings on the edge of the bank in long. 45° 45' W.; here the bank is very steep. In lat, 44° N. and long, 49° W., you will strike the edge of the bank in 105 fathoms, very fine groy sparkling sand; but ifamediately yon are to the westward of fathoms, very fine groy sparkling sand; but ifamediately yon are to the westward of westerly direction to lat. 45° N. and long. 49° 50' W., where are 60 fathoms, having immediately to the eastward sheal water of 40 fathoms, fine sand, shells, and mud, w., is a deep gulley called the Tron de la Baleine or Whale Deep, in which are 57 to 69 fathoms, with a bottom of mud or case having a fetid smell; this deep abounds with different soris of fish, but more particularly the cod, which are inconceivably numerous. The depths of the Great Bank vary from 20 to 80 fathoms, and the bottom also varies considerably, but it generally consists of sand, or sand mixed with shells and gravel, rarely with stones. The eastern face of the bank is of clear whiths hand, and often sparkling. But the boet idea of the bank is of clear

the bank will be gained by referring the chart which accompanies this work.⁶ I The Virgin Rocks.—Should you must the Great Bank between 46° and 47° parallels of latitude, you must be very eareful to avoid being drifted upon Cape Base or Virgin Rocks. These rocks were surveyed by (laptain Bishop, R.N., and Mr. Bose, B.N., and the following particulars are the result of their observations. The bank on which the Virgin Rocks are situated was found to extend 41 miles in an E. by S. and W. by N. direction, and to be 32 miles wide in its broadest part, the depths being regular from 28 to 30 fathoms. Beyond these limits, the depth increased underly to 89 and 45 fathoms. In the Nautical Magazine for 1832, p. 10, it is stated that " their meridian distance from Halifax was found to be 12° 40° 6° K., and the longitude of the rocks depends on Halifax Dock-yard, which is supposed to be in 63° 68' 41° W." Mr. Bose describes these rocks as extending in an irregular chain, or cluster, 600 yards in the direction of N.E. by E. and S.W. by W., their breadth varying from 200 to 300 yards. They were distinctly seen under water, particularly a large mass of white rock, in 45 fathoms, having 5 and 65 fathoms round it. The sheal was traebd in 7 fathoms, on southern edge of the sheal, from S.E. to West, the depth increase gradually to 30 fathoms, at the distance of balf a mile from the shealest part. The same depth was found to the N.W. and N.H. of the sheal, at the distance of one third of a mile, and also between N.E. and S.E., at the distance of one mile. The surrent was found setting to W.S.W., at the rate of one mile per hour over the sheal, with a confused form setting to W.S.W., at the rate of one mile per hour over the sheal, with a confused

Shoal.—A shoal of 21 feet water was lately discovered (1645) by Mr. Jesse Byder, of the fishing schooner Bethel, in lat. 46° 30' N., which appeared to be a rook of 100 or 200 feet surface. He discovered it excidentally while searching for the 9-fathom bank, to fish upon, and supposed it to be about 50 miles to the eastward of the Virgin Rocks, and to bear S. by W. about 14 miles from the 9-fathom bank. Mr. Ryder was estimate that it formed up part of the Virgin Rocks, having afterwards seen them, and from his experience of the different fishing grounds knows it to saint.

To the westward of the Great Bank is a series of banks, called the Green, St. Pierre, Mizon, Banquersan, Canso, and the extensive bank which extends off Sable Island, to the westward, along the coast of Nova Scotia. All these banks have from 20 to 70 fathoms on them, and afford a good indication of a ship's appreach to land.

* Or the reader may refer to the large chart of the banks, on two cheets, sold by the publishers of this weik of this weik of the second secon

• On the Franch charts of the banks, a shoal of 9 fathoms, seen by a Captain Bertal, in 1044, is stated to lie in lat 44° 48' N. and iong 49° 01' W., but the position is somewhat ansertain. The works Bertal and Bothal (the name of Mr. Ryder's vessel) are not so unlike, but that they may have been combusided; in that ease, the dangers may be the same, although they differ widely in inside.

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THE FLEMISH CAP, called also the Outer or False Bank, is a patch of rising ground to the eastward of the Great Bank, in long. 44° 80' W. and between latitudes 47° and 48° N. It has lately been partially surveyed by M. Lavaud, of the French Navy; from whose observations it appears to be very steep on the western adge, there being no bottom immediately after sounding in 180 or 160 fathoms on its edge. From long. 44° 52' W. and lat. 46° 53' N., in a depth of 73 fathoms, large stones; a line of soundings gradually increasing in depth was carried to the northward, to lat. 47° 50' N. and long. 45° 18' W., where the depth was found to be 147 fathoms, bottom of soft mud. Between it and the western edge of the Great Bank is much deeper water, with a bottom of fine saud and cars; which will scarcely stick to the lead, and as you problack.

If bound to St. John's Harbour, it is advisable to keep on the parallel of 46°, or 13° to the southward of the parallel of that port, and until you appreach the onter edge of the Great Bank, and obtain soundings in long. 48° 30' or 49° W., to steer directly to the north-westward for Cape Spear; but if bound for the Gulf of St. Lawrence, you should endeavour to crose the bank in 45° 30', and when about in 55° or 56° of longitude, shape your course north-westerly for St. Paul's Island, or Cape North or Breton Island.

In thick weather the lead should be kept going when leaving the western edge of the Green Bank, to ascertain when you fall into the deep gulley of 80 to 90 fathoms, mud, which rune N.N.E. and S.S.W., about 60 miles, between St. Peter's and the Green Bank. The middle of the gulley is in lat. 45° 38' N.; by sounding in this gulley, and feeling the edges of the banks on each side of it, you will obtain a fresh

If making St. Pierre or St. Peter's Island, adopt the following course, which is followed by the French fishing vessels. From the longitude of 52° W., in lat. 45° N., steer a N.W. course, which will carry yon acress the Green Bank in about 48 fathoms water, and when in the meridian of 55° 10' W., in about 45° 60' N., you will suddenly deepen your water to 90 fathoms. A farther run on the same course for, about 10 miles, will carry you acress this gulley, when you will sheal your water to 35 and 30 fathoms; and after a farther run of 23 miles, may steer about N.N.E. directly for the island.

In the spring or summer, vessels from Great Britain should keep well to the northward; for it has been long observed that vessels from the Pentland Frith and the Clyde, have always made quicker passages than those from Bristol or the English Channel. During the winter season the American packets always keep well to the northward. The preferable course for vessels bound for the Bay of Fundy, in the summer, is to keep as far to the northward as lat 47°, until reaching long. 40° W., then to edge away so as to orose the tail of the bank in about lat: 48° 30° N. At this season of the year you will be more clear of the numerous fishing-vessels that resort to the banks, and perhaps fall in with less ice, but a strict look-out for the latter is always necessary. After being to the westward of the banks, endeavour to keep in lat: 45°, to avoid the northward to guard against the north-westers, which blow very heavily.

Two vessels bound to the lower ports in the St. Lawrence have been known to pase the Pentland Frith together, in the month of April; the one had a passage of 21 days, and the other, the faster sailer, of 7 weeks. In comparing logs afterwards, it appeared that shey were both in about long. 30° W: on the same day, but the one was about 100 miles to the southward, with a gale at West, while the other to the northward was running 9 knots, with a freeh gale at N.E. All the ships which kept to the northward had fine passages.

To these remarks on the passages from England to Newfoundland, the following, by a correspondent of the Nautical Magazine, 1833, p. 329, may prove net unacceptable.

"Although the voyage to and from North America, between the parallels of 60° and 40°, has always been attended with a degree of peril, from masses of ice which drift to the southward, during the summer months, from the polar regions, yet many an unwary mariner makes his run across the Atlantic without any apprehension of meeting these floating dangers, or without sufficiently exercising a proper discretion and

GENERAL REMARKS.

vigilance to guard against coming in collision with them. This is not mereconjecture, but the information of persons who annually perform the voyage, beside the result of my own observation, in accidents which have repeatedly occurred to vessels between Newfoundland and England, and in the number of missing ships on this route. Commanders of ships should therefore bear in mind the imperative necessity there is for using their utmost vigilance and attention when crossing the above-named parallels, especially between the meridians of 30° and 60° West to guard against coming in contact with these formidable dangers of the ocean.

The New York packet skips, well supplied with every essential equipment, and elegantly fitted for the accommodation of passengers, when making their winter voyage from Liverpool, keep in high latitudes until nearing Newfoundland. This they do for the twofold object of avoiding the tempestuous weather so generally experienced to the southward, and of obtaining fairer winds; and thus, by slipping within the mighty stream from the Florida Channel, they evade its retarding influence. The voyage by this route is shortened; and, although bad weather must be expected, it is not so violent as farther south; besides which, the eastern current is avoided. I believe it is au unusual thing to meet with ice in this part of the Atlantio in the winter; but we have the following recent instance to the contrary, so that a look-out should be keps in that season, as well as in the summer, by vessels making the voyage.

It appears that the *Emulous* packet, on the 26th of February, 1638, met with much field-ice on the coast of Nova Scotia; and in the latitude of 43° N. and long. 49° W., those on board were much surprised by falling in with a large quantity of strongly *packed* ice, which reduced the vessels way to 64 and 7 knots, from sailing at the rate of 9 knots, under close-reefed main-topsail and reefed foresail. On the 4th ef March, she fell in with three bergs, of large dimensions, in a run of 95 miles; and at nine the same evening she was obliged to pass between the two easternmost of these before heaving-to for the night; after which, by keeping a more northerly source, no more of these dangerous floating masses were seen.

From all accounts it seems that the greatest danger is to be apprehended in the vicinity of the Banks of Newfoundland; and this, as every navigator knows, is inoreased by a dense fog which generally pervades the atmosphere in that quarter, and, of course, shortens the distance of vision to a very circumscribed limit."

The Banks are frequently enveloped in dense fogs, which, from the middle of spring to December, have been known to last 8 and 10 days successively; at such times they are often so thick that you will not be able to see any object 10 fathoms distant; continual drizzling rain is dropping from the sails and rigging, a general calm prevails, and sometimes attended with a considerable swell of the sea, so that you are constantly in fear of running foul of some vessels, or being drifted by the ourrents upon some danger, which, from a total inability of discovering, yes will have great difficulty to avoid. The currents which surround the Island of Newfoundland are frequently so violent and so irregular, sometimes driving towards the shore and sometimes towards the sea, that the greatest caution will always be found necessary; while the surrent coming from the northern regions sweeps along the shores of Labrador, and, in the spring, detaches immense icebergs, which float to the southward, and become exceedingly dangerous, especially in foggy weather; some of these masses will frequently be grounded in 40 or 50 fathoms water, and others will be met with farther out to seaward, at the distance of 125 or 130 leagues from the land. Fortunately these formidable, objects may generally be discovered, even in dark weather, by a white and bright appearance of the sky above them, and also by the roar of the waters breaking against them; they also may be apprehended by the intense coldness they diffuse to a great distance around them ; they continue and are usually met with as late as June, July, and August .: Your approach towards the banks may be known by the numerous see fowls which will attend you, as soches, malimauks, and divers; these latter are seldom found more than 30 leagues off the banks, but malimauks and others are occasionally seen all across the Atlantic, but in the visinity of the banks they become numerous. The great fishery commences in May and continues till the latter end of September.

CURRENTS, WIND, do. If the been observed that ressels bound to the Gulf of St. Lawrence should take the greatest care to notice the currents, which set from the

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eastward, all along the conthern coast of Newfoundland, with frequently fatal valocity, causing an impetuous indraught into the various bays, and occasionally the loss of many lives, and the wresk of numerous vessels. These local currents chiefly or many nyes, that part between Cape Race and Cape Ray. The British frigate Tweed, prevail on that part between Cape Race and Cape Ray. The British frigate Tweed, the sloop Comus, the transport Harpooner, were all, of late years, loss on this coast ; the sloop Comus, the transport Harpooner, were all, or late years, loss on this coust; the two latter nearly on the same spot, and within three weeks of each other. H.M. ship Drake, in June, 1822, was wrecked about the eastern head of St. Shot's Bay; and in the July following the brig Sponse was totally loss on the same dangers: so that it would seem that more vessels have been cast away on the small point of land which divides the two bays of Trepassey and St. Mary, than on any other part of the intervention that more vessels have been cast away on the small point of land island ;- that these socidents were occasioned by the currents, there can be little doubt.

doubt. It frequently happens that a viewel bound from England to Quebec will strike soundings on the Great Bank of Newfoundland, and thence shape her source for the Gulf of St. Lawrence, without ever seeing the land, which, probably, is enveloped in When unable or neglecting to make a proper allowance for the above current, fog. which runs sometimes at the rate of 4 miles an hour, he is swept away to the westward ; and while he considers himself to be steering fairly for the entrance of the gulf, he is driven on shore, and his vessel becomes a wreck.

An able navigator, who has been 20 years employed in the fisheries, and who is a native of Newfoundland, observes, -" It is well understood by all the bost-masters, that there is, in general, a strong current acting in from the eastward, along the western coast of Newfoundland, which, aften passing Cape Pine, runs more towards St. Mary's and Placentia Bays. This current will be felt at least 20 leagues to the S.W. of Cape Pine, and becomes more rapid as you approach the land, its velocity increasing as the winds favour its direction; but at all times of sufficient magnitude to endanger the safety of any vessel approaching from the south or west, in foggy weather, and being ignorant of its existence."

In order to avoid the danger arising from this current, the fishermen, in foggy eather, when returning from the western coast to their homes on the eastern shore, invariably use the lead, depending more upon the depth of water than their compase, and always keeping a sufficient distance from the land, to ensure the safety of the wosel. On passing to the eastward of Cape Race, they never approach nearer to the land than 35 fathoms water; the ground being more of an inclined plane on the west than on the east coast. You will find that depth of water at a considerable distance; the ground becomes more broken, and the depth of water increases so fast, that in your course from Cape St. Mary's to avoid Cape Race, you will, when to the sastward of it, find yourself in 50 fathoms, and when advanced a very short distance farther, you will sound in 60 and 70 fathoms; consequently, the land will then be cleared, and you may eafely pursue what course you think proper; but, in all this navigation, the mariner's safety will, in a great measure, depend upon a due attention

The winds being variable, there is little doubt but that they produce many changes in the currents; shifts of wind to the southward of the island being so common that it often happens that, after blowing a gale from see point, it anddenly shifts to the opposite, centinuing to blow with the same violence. One vessel may thus be lying-to with a heavy gale, while another 30 lengues distant might be in a similar situation with the wind in quite an opposite direction, a circumstance that has been known to happen.

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happen. We will close these remarks upon the currents by adding the following from the French chart of the banks, by M. Lavaud of the French Navy. "The direction of the currents at the north and south, and to eastern approach to the Great Bank, varies little from E.S.E. to S.S.E. (true), and is generally between these points; its velocity is seldom less than 8 to 10 miles in the 34 hours, and some-times increases to 24 or 30 miles. Mariners should observe, that outside all the banks, and especially off the south part of the Great Bank, the currents hell and form such strong eddice, that a vessel becalined, or with light winds, cannot estimate her maniform with avectories this is mobably descended by the addee of the Great her position with exactness; this is probably coossioned by the edge of the Gulf Stream.

The corrents on the Great Bank have a variable direction, of which the wind in not the only cause, as it is, at times, in a different direction. The fishermon state,

CAPE BACE TO CAPE ST. FRANCIS.

that the current every day makes the round of the compase; and it is found, by close observation, that beyond the meridian of Cape Race it is mostly to the westward."

not but prove interesting to the reader :---"Of the various lighters which beset the path of the mariner, perhaps there are none which excite to there vigilance than the known or expected proximity of ice. In some frequential forming of the Atlantic Ocean the ice appears almost every year, in the various forms of field-ice, flocs, and massive ice-ialands, drifted from the arctic regions by the constant action of the poles currents. These ice-bearing currents, in flowing towards the South, must necessarily incline towards the western limits of the ocean, owing to the increased velocity of the diurnal rotation of the earth's surface as we depart from the poles; a law well understood as regards the currents of sir which form the trade winds. Hence it is that on and near the Banks of Newfoundland these ice currents are found to cross the usual track of vessels bound from the ports of Europe to North America.

The quantity of ice which appears on this route of navigation in different years, is exceedingly various. It is sometimes seen as early in the year as January, and soldom later than the month of August. From March to July is its most common season. It is found most frequently to the west of long. 44°, and to the eastward of long. 52° ; but loobargs are sometimes met with as far eastward as long. 40°, and in some rare cases even still further towards Europe.

Experience has shown that the proximity of ice is far less hazardous than rocks or shoals; and this floating danger would be still less formidable were it not for the logs and mists which it often caules. The thermometer has been often held up as affording sure indications of an approach to lee, by the reduction of temperature shown both in the air and water, and these indications are important and should by no means be neglected. But there may be many cases of appreach to ice where a reliance upon the thermometer alone could not afford security.

Although little or no ice be seen in one passage, or even in many times crossing the Atlantic, yet it has been frequently met in such quantities as seemed to indicate a vast or indefinite extension of the ice-fields, towards the pelar seas."

EAST COAST OF NEWFOUNDLAND.

CAPE BACE TO CAPE ST. FRANCIS.

CAPE RACE, the south-east point of Newfoundland, lies in latitude 40° 30' 44" N. and longitude 53° 4' W., and is a table laud of moderate height. A black rock lies near to it, and several smaller ones around it."

From Cape Bace to Cape Ballard, the course is N.E. by E. 6 miles; nearly one mile to the southward of Cape Ballard, is a high black head, called Chain Cove Head, between the points is a cova. To the westward of Chain Cove Head, has Chain (~ Cove, before which her a black rock above water. Nearly midway between Capes Race and Ballard is Ghan or Clam Cove, a place only fit for boats.

About 8 miles E.S.E. from Cape Race, and to the southward of Cape Ballard, is a fishing bank, called New Bank, about 5 miles long, and nearly 2 miles broad; on it there are from 17 to 25 fathoms water.

RENOWES.—At the distance of 61 miles N.E. F.E. from Cape Ballard He some a small rocks, bold-to, named the Benowes, which are of moderate height, and he one mile from the main land. About 9 miles to the northward of these rocks, and about a mile to the southward of the entrance to Benowes Harbour, hes Remowes Island, which is altuated close to the main land. The Harbour of Remowes Island, indifferent place, and has not above 16 or 16 feet at low water. There are several

• We are informed that a very fine become has been arouted on this cape, as an additional more of incognizing it. We regret that we have not the particulars of it.

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all the oil and rocks in the entrance, and the south east winds heave in a very great sea. To sail in you must keep the north shore on board.

FERMOUSE HARBOUR lies about 24 miles from Renowes, having between them a small place named Bear's Cove, off which there is a sucken rock, about a cable's length from the shore. Fermouse is an excellent harbour, there being no danger in sailing into it, though the entrance is not more than a cable's length wide. Just within the entrance, on the north shore, is a small cove, in which a fishery is carried on, but there is no safe place for anchoring. About one quarter of a mile farther in, on the same side, is another pove, named Admiral's Cove, in which merchant-vessels generally ride in 7 or 8 fathoms water, land-locked. About a mile farther up the harbour is a place named Vice-Admiral's Cove, on the south of which is the best anchorage for large ships, in 12 or 15 fathoms water, muddy ground, as in there you will be conveniently situated for obtaining wood and water. Farther up, on the same side, is Sheep's Head Cove, directly off which, near the middle of the channel, there is a sheal, on which are only 9 feet water; this is the only known

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About N.E. by E. one mile from Fermouse Harbour is Bald Head, and one mile farther N. by E. is Black Head.

AQUAFORT HARBOUR is about one mile N. by W. from Black Head, and has in its entrance a high rock above water, to the northward of which is the passage in, with about 15 fathoms water. The harbour runs into the westward about 8 miles, narrowing as you advance, until abont half a mile from the head of the bay, where it becomes much contracted, affording however about 4 fathoms water. Just within the narrows is a small cove of about 7 fathoms water, which is considered to be a good place for vessels to heave down, the shore being steep. To sail through the narrows, give a berth to the stony beach on the north shore, without the narrows, it being shoal, excepting at the point of the narrows where it is bold to. FERRYLAND HARBOUR.—Ferryland Head lies E. 3 S. distant 2 miles from

Aquafort, and N.E. 1 E., 31 miles from Fermouse. It is moderately high, having, alose off it, two high rocks above water, named the Hare's Ears. The bead is not easily distinguished, on account of the main land within it being much higher. The entrance into Ferryland Harbour lies to the northward of the head, between it and Iale Bois, and is little more than half a cable's length wide; but after you are within Isle Bois it is much wider and affords tolerable good anchorage in 8 or 10 fathoms water; but the north-east winds heave in a very great sea over the low rocks that extend from the Iale Bois to the main.

From Isle Bois to Goose Island, the course is N.E. by N. 4 N., distant half a mile; and from Goose Island to Stone Island, the course is N. 5° W., distant half

OAPLIN BAY runs in N.W. by N. 23 miles from Goose Island, and is considered to be a tolerably good harbour, having a safe passage into it on either side of Goose Island. To the northward of Goose Island, between it and Stone Island, there is not the least danger, the islands being bold-to. If you pass to the southward of Goose Island, between it and Isle Bois, be sure to keep the point of Ferryland Head open to the castward of Isle Bois, in order to avoid a sunken rock, on which there are only 2 fathoms water, lying nearly midway between Goose Island and Cold East Point ; after you are within this rock, there is no danger in sailing up the bay. The best anohorage is abreast of a cove on the port hands about half a mile within Scogin's Head, in 16 or 17 fathons water, a set that he had a bout half a mile within

From Forryland Head to Cape Broyle, the course is N.N.E. 24 miles. This cape is a high table land, and makes in the form of a saddle, either from the northward or southward. From the north part of the cape, southward three-quarters of a mile, is a small rook, called Old Harry, on which are only 3-fathoms water; but between it and the main are upwards of 20 fathoms water. About three-quarters of a mile to the E.N.E. of Cape Broyle there is a ledge of rocks, called the Horse Rocks, on which are from 7 to 14 fathoms water; in bad weather the sea breaks very high on these rocks. The mark for these rocks is, or was, a white house on Ferryland Downs open with Stone Islands, and the head of Cape Broyle Harbour open will carry you directly

CAPE BROYLE HARBOUR. From the north part of Cape Broyle to the south part of Brigus Head, the distance is 11 miles. These points form the entrance into

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CAPE RACE TO CAPE ST. FRANCIS.

Cape Broyle Harbour, which runs 4 miles up. About 14 miles within the entrance on the north shore is a cove, called Admiral's Cove, in which is anohorage in about 12 fathoms water, good ground, but exposed to the south-east. The best anohorage harbour is a ledge, called Saturday's Ledge, which lies about 14 cables length without the Narrows on the north shore. If you are coming in from the northwith carry you clear of this ledge. After you are above the Narrows, you may another in about 7 fathory ou are above the Narrows, you may another for obtaining wood and water.

Close to the northward of Brigus Head is the small cove of that name, fit only for boats.

Cape Neddick lies 4 miles from Cape, Broyle, and 7 miles from the Hare's Ears off Ferryland: it is a table land, of moderate height, and steep towards the sea. From Cape Neddick to Baleine Head, the distance is 1 miles. Baleine Cove is about one-quarter of a mile to the northward of Baleine Head, and is but, a small place, fit only for boats. From Cape Neddick to the outer point of Great Island, the course is of moderate height. This island is about half a mile in length, and

From Baleine Head to Spear Isle, the course is N.N.E. & E., distance 1 mile. Within this island a fishery is carried on, but there is no safe anchorage, the bottom being rocky. Toad's Cove is about a mile to the northward of Spear Isle, and is only fit for boats. About 14 miles from Spear Isle, lies the south point of Momables Bay, called Tinker's Point; from which to the north point of the said bay, being the south about one mile deep.

Green Island is a small round island; about three quarters of a mile from the south point of Witless Bay. From this point a ledge of rocks extends about one third of the distance over to Green Island.

The south point of Gull Taland lies about three-quarters of a mile to the northward of Green Island. The island is about one mile long, and a quarter of a mile broad, which use the source of a mile broad,

WITLESS BAY extends inwards about 2 miles from Gull Island, and affords a moderate depth of water, and good ground, but open to the sea. About half-way np, on the north shore, there is a ledge of rocks, partly above water at about half-tide.

BAY OF BULLS.—One mile and a quarter to the northward of Gull Island is the south point of the entrance into the Bay of Bulls; from this point to the north point of the said bay, called Bull Head, the course is N.E. by E., distance 14 miles. The best anchorage in this bay for large vessels, is about half a mile from the head, in about 14 fathoms water, but small vessels may anchor higher up, and moor to the small rock off Bread and Cheese Point, but not above twenty yards off, and a rock, on shore.

From Bull's Head to the south point of Petty (Petit) Harbour, from which a reef extends about a quarter of a mile, the course is N.E. about 84 miles. The south point of Petty Harbour is distant from the north point 24 miles; between which is midway between the Bay of Bulls and Little Bay is a caveru, having an opening at the summit, through which the water spouts whenever the see rune bigh, thus presentspont.

OAPE SPEAR.--From the north point of Petty Harbour to Cape Spear, the course is N.E., distance \$} miles. This point is rather low and ragged, and may be known by the land to the northward trending away to the N.W. Cape Spear is the casternmost point of Newfoundand, in lat. 47° 80' 20' N., and long. 52° 87' 80' W., and is upon getting into scondings.

The lighthouse on Cape Spear exhibits a powerful revolving light, at 375 feet above the level of the sea, which in clear weather may be seen at 9 leagues off. The light shows a brilliant flash at intervals of one minute. There are three bays between Cape Spear and the entrance to St. John's: 1, Cape Bay lying between Cape Spear and Black Head; 2, Doadman's Bay between Black Head and Small Point; and, 3, Freehwater Bay between Small Point and Fort Amheret.

From Fort Amherst, on the south head at the entrance of St. John's Harbour, there is shown a brilliant fixed light, which, from its elevation, may be seen at a con-

The seak of government; and although its approach is narrow, its harbour is excellent, and its situation readily known, both by the block-house on Signal Hill, at the north side, and Fort Amherst, on its south side, or point of entrance. The channel, from point to point, is only about one-sixth of a mile wide; but it is wider just within the points than between them, decreasing again as you approach the Chain Rock; for, from the latter to the Pancake Rock, the distance is only 96 fathoms; these rocks both being above water and steep-to: Chain is the northern rock, and Pancake Rock lies on the south side of the channel. Three small knolls lie between these two rocks, with from 18 to 24 feet on them.

In approaching the harbour of St. John's with a large ship, care must be taken to avoid the Vestal Rock, which lies about 50 fathems off the southern, or Fort Amherst Point; over this rock are 18 fest water : the marks for it are Fort William, or the old garrison, just open of the south head; and the outer Wash-ball Rock, open to the eastward of the Ouckold's Head : these latter rocks lie close to the northern point of the harbour, find are always above water, being steep-to, and therefore not dangerous. The course in is N.W. by W., the abore continuing hold until you get near to the Paneake, then give the south side a small berth, 'continue the same course, or rather more inclined to the westward, keeping Fort Amherst fagestaff open to the northward of Frederick's Battery Rag-staff; you will, by these means, avoid the Presser, a rock on the port side, running off the end of another rock, formed like a saddle, with 18 fest water in the hollow, and only 6 fest on its outside ; yet it is atsepto, having not less than 5 fathoms close to it; so soon as you are within, and have passed the 'Prosser Rock, you may steer in a you please, both shores being clear of dangers, and anohor in from 4 to 10 fathoms water, on a bottom of mud, and lying quite land-locked.

The winds from the S.W. to the southward, as far as N.E. by E., blow in, all other directions of the wind either baffle or blow out of the Narrows; with the latter winds you must warp in, for the convenience of doing which rings are fixed in the rocks on each side. The anchorage within the Narrows has from 10 to 16 fathoms, and a little before you enter the Narrows there are 20 fathoms. 80

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The tides rise 5, nears 32 feet, but very irregular, being much influenced by the winds; and the variation is about two points westerly. It is high water, F. & C., at about 7h. 00m.

The town of St. John is composed of one long street, running nearly parallel to the shore, and of several shorter streets or lanes which branch from the main street et right angles. Most of the houses are of wood, some are of brick, and others of stone. The shore is entirely lined by wharves, which are mostly compiled by stages for ouring fish. The government has a line wide wharf, which is open to the public. The population of the town fluctuable extremely with the season. At the height of the fishing the place is crowded, bet many of its then inhabitants resure to Europe in the trading vessels. St. John's is built on a peninsula, which Lord Baltimore named the province of Avalon. The entrance to the barbour is guarded by various batterice, and formerly a chain was extended from the Chain Rock (hence its name), to prevent the entrance

A stranger to the coast should be sareful not to mistake Kitty Vitty, a small place, fit only for boats, lying about a mile to the northward of St. John's, for St. John's itself, as at a distance it has the appearance of a good harbour. He will therefore observe, that at Kitty Vitty's south side is a round hill, shaped like a haycock, standing upon Cuckold's Head; while St. John's Harbour may be distinguished by Fort Amherst, which appears white, and by the flag-staves on the hill, over the north point of entrance, which sufficiently denote the right entrance.

About a mile from Ouchold's Point is a small point or projection of the land; and 9 miles farther is Sugar-Loaf Point, tapering upward, and much recembling a sugar-

FROM CAPE ST. FRANCIS TO BOCALIEU TOLS

called

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Harbour, at a con-

and, being r is excelill, at the obannel, vider just the Chain fathoms : rock, and between

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Il place, L John's therefore by Fort rth point

I; and 2 & sugarloaf. One league farther is Red Head, having a small between.

TORBAY.—One mile and a half from Red Head, is the south Panto which is somewhat lower than the others. From this point o dream to tomary place where vessels anchor, the course is about W.J. When miles is may ride in 14 and 12 fathoms, but much exposed to shewar. Tor being fully a league in extent. From off its northern point is the sea breaks. A heavy swell sets from the eastward into the hay, good place to lie in.

From Flat Book Point, which is low, dark land, the coast runs northerly to Red Head, a distance of 2 miles; and from thence to Black Head, in the same direction, 2 miles more

OAPE ST. FRANOIS .- From Black Head to Cape St. Francis, the course is N.N.W., distance one league. Cape St. Francis has a white appearance, and is itself low, but above it the land rises high. A little south of the cape is Shoe Cove, a place used in had weather for splitting and salting fish. Off the cove there is good fishing, and with northerly, westerly, and southerly winds, you will lie safe within the cove.

About 14 miles to the eastward of Cape St. Francis, in a triangular position, lie some sunken rocks, called the Brandy Rocks, on which the sea generally breaks. There is a channel between them and the cape, but too dangerous to be made use of, while the rocks add to the safety of Shoe Cove. Another small cove, to the northward of the cape, may be used with the wind off-shore.

FROM CAPE ST. FRANCIS TO BOCALIEU ISLAND.

CONCEPTIONIEAN. + From Cape St. Francis, the southern point of Conception Bay, to Bocalisu Island, the northern boundary of the entrance, the course and dis-tance is N.N.E. } E. about 18 miles. This bay is very extensive, running to the south-westward, and contains many smaller bays and inlets, of which we proceed to give a more minute description.

BELLE ISLE .-- Four longues S.W. by W. from Cape St. Francis is a lofty island named Belle Iale, which is 5% miles in length, and about 2 miles wide. Its castern side is nearly 8 miles off the main, and there is on this side a beach, to the southward of which is good anohorage in 30 fathoms, sandy ground : a league farther, near the south part of the island, is also tolerable anchorage in from 15 to 30 fathoms. At the south end of the island is a small cove, named Lance Cove, where fishing vessels occasionally resort, and find good shelter for 5 or 6 vessels. One mile from the south part of the island lise a rock, over which are 8 fathoms water. Two miles to the southward of Lance Cove is a small, low island, named Little Belle Isle, having to the W.S.W. of it, distant 14 miles, Kelly's Island, of middling height, and about three-quarters of a mile in length. On the main, within Belle Isle, is Portugal Cove, in which there is no ease anchouses. Broad Cove lies to the southward of Portugal Cove, and at the bottom of the bay is Holyrood Harbour, which runs in about 84 miles, and where, in a cove on the west side near the head, is very good anchorage in 10 or 12 fathoms water, and sufficient room to moor.

At 14 miles distant from Holyrood Harbour is Harbour Main, about half a mile wide and 13 miles deep, having anchorage near the head in 7 to 10 fathoms water, but it is entirely open.

SALMON COVE .- Salmon Cove lies about a mile to the westward of Harbour

* It is a fast worthy of notice, that the whole of the land in and about the neighbourhood of Conception Bay, very probably the whole island, is rising out of the ocean at a rate which promises, at ne very distant day, materially to allect, if not to render useless, many of the best harbourhood of at ne very distant day, materially to allect, if not to render useless, many of the best harbourhood of have now on the ocean. At Portgrave a series of observations have been indee, which underliably reverse the rapid displacement of the ase level in that vicinity. Several large flat room, over which the surface of the sea level is that vicinity. Several large flat room, over which the surface being sconcely navigable for a shift. At a place called Cosh, at the level with the Root served with day, first ford of regetable mould, there as a partice beach, the store is lored, or level, or we with the surface beach, in all respects similar to the sea have made here in all respects similar to the sea have index in the subsection of a moderate fraction. These, is a surface of a single for a shift of the store is a surface. How found in the subsection is not a cover which the surface of a moderate search and the surface of a moderate beach, the subsection of the surface of a moderate fraction.

FROM CAPE ST. FRANCIS TO BOCALIEU ISLAND.

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Main. The entrance to it is about a mile wide, and runs to the W.S.W. about 24 miles, then dividing into two arms, one running to the westward one mile nearly, and the other to the southward 14 miles. In either of these arms there is very good anohorage, but the best is in the southern arm in from 5 to 10 fathoms water, there being no danger, in going into it. To sail into the western arm, keep a rock above water off the poist on the port hand, going in, well on board, in order to avoid a such a moder to another the post of the southern from 5 to 10 fathoms water, there water off the poist on the port hand, going in, well on board, in order to avoid a such a moder to a souther side of this rock, but the southern is by far the widest.

About a league to the weatward of Salmon Cove lies Collier's Bay, which runs in nearly 2 leagues. About 13 miles from the entrance there is a sunken rock near mid-channel, on either side of which is a safe passage up the hay ; this rock shows at three-quarters ebb. At 23 miles from the entrance, on the east side, is anohorage in about 10 fathoms water before a cove : small vessels may haul into the cove, and lie in 8 or 4 fathoms water, and moor to the shores. About 13 miles higher up, on the same side, is another cove, but there is no anchorage in it, being shoal and full of water.

About 2 miles to the northward of Collier's Bay is situated Brigus Bay, which runs in from Brigus Head 14 miles; in it is anchorage in 10 or 15 fathoms water, but it is entirely open. At the head of the bay, on the south side, is an island; within which vessels may anchor in 8 or 4 fathoms water, but must moor to the shores, where they will be accure from all winds. 8

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PORTGRAVE BAY lies to the northward of Brigus, and has within it Sheep's or Ship Cove, and Cupid Cove; the latter lies on the south side of Portgrave Bay, and has in it good anchorage in 5 or 6 fathoms water, with room for 2 or 3 ships to lie at their anchora, simest land-looked. Its north side is so bold that ships lie alongside the rocks, and take in their cargoes. The land on the northern side of the entrance is remarkably high, and thence called Spectacle Head.

Sheep's or Ship Cove has within if 4 and 5 fathoms water, and will accommodate small vessels mooring head and stern, having their S.W. anchor in 22 fathoms, about 12 cable's length from the ship.

Portgrave is about three-quasters of a mile to the westward of Sheep's Cove. Within the islande the water is shallow and fit only for boats; but about one-third of a mile without them is anchorage in 20 to 25 fathoms water, but quite exposed to south-easterly winds.

From Burnt Head, the south point of Portgrave Bay, to Bay Robert's Point, the southern point of the entrance to Robert's Bay, the bearing and distance are N.E. <u>1</u> N. 23 miles. About one mile to the southward of Bay Robert's Point is Blow-medown Head, remarkable by being higher than the land near it: between Bay Robert's Point and Blow-me-down Head is a small cove called Hibb Hole.

• In Bay Robert there is no invisible danger at its entrance. In sailing in you may borrow an either side, or go close to an island, of a moderate height, which lies about a mile from the entrance on the starboard side; and having passed the island you may run on about a mile, and lie land-locked in 9 and 10 fathoms. Between the island and the main vessels may anchor, but the ground is bad, and there are two sunken rocks within it, one lying near the inner side of the island, and there are two above the island near the main. Two miles above the island on the same side is the north-west arm, in which is excellent anchorage in 5 or 6 fathoms water, on a muddy bottem, but it is necessary in sailing in to give the south point a good berth, in order nearly half a cable's length off.

Spaniard's Bay is separated from Bay Robert by a narrow neck of land. It is about one mile wide and four miles deep, having anchorage near its head in 7 or 8 fathome water, but open to N.E. winds.

From Spaniard's Bay to Harbour Grace Islands, the bearing and distance are N.E. about 2 leagues. These islands lie off the south point of the entrance of Harbour Grass. No vessel abould attempt a passage between them and the main, as the greend is foul and aboul, and there are rocks about the islets. On one of these islands there is a lighthouse, which shows a fixed light from the top of a square wooden building. Bryant's Cove, to the southward of Harbour Grace, is not a place for ships, although a good place for fish. A rock lies in the middle of the

FROM CAPE ST. FRANCIS TO BOCALIEU ISLAND.

entrance, having on each side of it 4 and 5 fathoms water. The ground within the rock is elean.

HABBOUR GRACE.—The entrance of this harbour lies to the northward of Harbour Grace Islands. A rock, called the Salvage, stands nearly in the middle of the channel; and there is another called Long Harry, near the north shore, having only a boat passage between it and the main: both are of considerable height above the water. Within the bay, a bar or ledge extends from the south side, more than half. The Salvage may be passed on either side, as most overeient; and having passed within this rock, you may go from side to side, by the lead, till you draw towards the edge of the bank, then proceed by the North Shore.

You may know when you are near the bar, or ledge, by two white rocks on the land, by the water side, in a bank on the north side, which show whiter rocks on the other part; these are about a mile below, or to the eastward of the beach, which is proper to be known : by keeping near the north shore, you will flud 35 fathoms on southward, till you have advanced within the bar, or ledge, you stand over to the 7, 8, or 9 feet of water. This sand thends S.E. from athwart the two white rocks above mentioned, and extends up to the south shore. Having passed its outer extremity, you may turn from side to side till within the beach, on the north side, and please.

To the northward of Harbour Grace he Carboniere Island and Harbour, a short distance to the southward of which is situated Mosquito. Cove, in which is good anohorege on clean ground, although it is dittle frequented. OARBONIERE ISLAND AND HARBOUR. Our Jone Island lies one mile from shore : its south end is low, and has, or had, a fort on it. The island is bold-to,

from shore : its south end is low, and has, or had, a fort on it. The island lies one mile as are elso the shores of the harbour; but off the S.W. end of the island is bold-to, rocks under water, which render the passage between the island and the main very dangerous. On the north side, opposite Carboniere Island, are two coves, namely, clown's Cove, and Crocker's Cove, off which are several rocks both above and under small berth, and after you reach Otterbury Point, you may stand close over on either shore till you come near the head of the harbour. You may anchor in what depth rocky.

From Carboniere Island to Salmon Cove Head, the bearing and distance are N.E. by N. about 2 miles. Salmon Cove Head is a remarkable high steep head, having to the northward of it a cove which affords an abundant supply of salmon, but only shelter for boats.

From Salmon Cove Head to Broad Cove Head, to the northward, the distance is 4 miles; and from the latter head to Green or Western Bay Point, the distance is about 35 miles. Of Broad Cove and along shore about one mile to the northward, is anchorage in 10 to 16 fathoms water. GREEN OR WESTERN BAY.—In the entrance of this bay is very good anchor-

age in 15 or 16 fathoms water, taking care not to go too far into the bay, lest the wind should come to the castward, as it lies entirely open to the sea.

Devil's Point Cove lies 44 miles to the north-eastward of Green Bay, but is a place of little consequence. To the northward of it is Island Cove, and still farther to the northward is Flamborough Head, which is black and steep-to, but there is no place of shelter near it except with off-shore winds.

BAY VERDE, where the ships lis, is about half a mile to the westward of the head. The entrance is not above a cable's length across, and the ships lis in 6 fathoms water, about half a cable's length from the head of the bay, with one another out satern, and the other cable fast on shore ahead. There is room only for 7 or 8 ships to lie, even in this manner; and it is a dangerous place with south westerly winds, which blow right into it. Bay Verde is a place casily known by Boolleu and its polecting land called Split Point. Bay Verde Head itself will serve to point ont its polecting in these three heads (Bay Verde Head, Split Point, and Boellen Ialand) appear prominent bluff land, and are very similar to one another when seen from the southward; and there is no hiddep danger in entering the bay.

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FROM BOUALIEU ISLAND TO CAPE BONAVISTA.

Bocation Island is high land, and is nearly 4 miles in length and 11 broad, and lies about the latter distance from the main. Nearly midway between its south point and Split Point there is a small rock, on which are 6 fathoms water, and on which the sea breaks very high in blowing weather, but the water is deen round is

About 41 miles to the northward of Split Point is Point Grains ; after rounding which you will open Trinity Bay

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FROM BOCALIEU ISLAND TO CAPE BONAVISTA.

TREETT BAT.—This extensive bay, between Bocalieu or Bacalhao Island on the S.E. and Trinity Harbour on the N.W., is, upon an average, 5 leagues in breadth, and about 17 leagues in depth. The south-castern point of the bay is named Point Grates; the next point to the north-westward is Break-heart Point, between which there is a small bay where boats may lie with of-shore winds, the bay is a ladre of rocks, which haraver show shore winds, within the bay there is a ledge of rocks, which, however, show above where ocurse from Break-heart Point to Sherwick Point is S.W. by W. S miles. A Island lies some distance from shore, to the southward of Break-heart Point ; betw it and Sherwick, the 'coast fails in a pretty deep 'bay, winding S.S.E. three quarters of a mile.

OLD PERLICAN .- Sherwick Point, off which is a rock above water, forms the but Finition of Old Perlicen; vessels cannot go between the island and point, although the parage appears good and open, because the ground is altogether foul and rocky; always, therefore, run into the southward of the island, and when you have passed it, anchor in 4 or 5 fathoms. This cennot be considered a good har-

bour as the ground is bad for holding. The pourse from Old Perlican to Salvage Point is W. # N. distant 5 miles. Salvage Point is low, and requires a good berth, having a reef of rocks running out from it nearly a mile.

The oqurse from Salvage Point Hunt's Head is W. by S., a distance of about 64 miles; and to the eastward of the head, at a mile distant, is Hunt's Harbour, which miles; and to the assument of jew need, as a mile distant, is fullt's fractionr, which is fit for, small craft only. Hunt's Harbour Rock, over which the see generally breaks, lies 3 miles off Hunt's Harbour, and you may clear it to the northward by bringing King's Heed open of the Sugar Loaf. At two miles farther is King's Heed, and from King's Heed to the Sugar Loaf the course and distance is S.W. 1-W. about

Silles Cove lies eastward of the Sugar Loaf, and is fit only for boats. NEW REBLICAN.-The course and distance from the Sugar Loaf to the north point of the entrance of New Perlicen, are S.W. 2 W., 2 miles; and a mile farther is beins of the entrance of New 2 chosen, are bounded by smulty New Point on the east, in a straight of the entrance is nearly 2 miles wide, being bounded by Smutty New Point on the east,

entrade is nearly a mise was, being counded by Smutty Nose Foint on the east, and Gorlob Point on the west, but as you advance the harbour becomes narrower, so Three miles from New Parlican is Heart's Content, a good with the set of the anthorage is will be harbour the broad with excellent anohorage towards the north shore, in heart's Delight, another cove, adapted for small craft only. From Heart's Delight, another cove, adapted for small oraft only.

Heart's Delight, another cove, adapted for small oraft only and From Heart's Delight, about 3 miles, is Long Point, projecting considerably into the bay, and a league farther is Witless Bay, by no means a place of safety, being teo imuch arginess and the bottom rocky; between Long Point and Witless Hay are two mail islands, which you leave on your port side. One mile from Witless Bay is a Harbour, where vessels may anchor in from 7 to 10 fathoms, and three is the bay and the bottom to your port side. One mile from Witless Bay is a Harbour, where vessels may anchor in from 7 to 10 fathoms, and three is the bay is two miles beyond which is New Harbour, is place of a state of the boats. In the two fit for boats. In the two for the antrance of which is a mile broad, and the bay about 3 miles deep; here, behind a small island about 9.miles in, is good anohorans, is from is deep ; here, behind a small island about 9. miles in, is good anchorage, in from

FROM BOCALIEU ISLAND TO CAPE BONAVISTA

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8 to 18 fathoms. Long Cove is situated about 8 miles to the morthward, running nearly in the same direction to Chapple Bay ; 6 miles farther is the Point of Sickle Harbour Bay, which runs inward, in a south-westerly direction, full 8 miles ; there is

no danger in the way, and, though little frequented, the knoborage is cafe. THE BAY OF BULLS runs in a N.N. Westarly direction to within 3 miles of THE BAY OF BULLS runs in a N.N. westerly direction to within a miles of Chance River, in Placentia Bay. There is very good anchorage in various parts of this bay, in 19 and 10 fathoms water, particularly on the western side, in a cove, about 19 miles from the entrapos, with from 10 to 15 fathoms, sandy ground. To the N.E. is Bull Island, and 5 miles further Copper Island : both these is very near the shore. To the northward of the Bay of Bulls, is situated Deer Harbour.

Deer Harbour is an extensive place, with good anohorage, but barred with many shoals, the first of which lies midway between Tickle Point and Deer Island, having 6 fathoms on its shallowest part, and therefore is not dangerous; but one third of a mile farther in is a bank, with only 2 and 24 fathoms water; bring the point of the Nils fartner in is a cant, with only z and z fations when the the point of the N.E. cove open of Shallop Cove Point, and you will go elear to the westward in 7 fathoms water. There is also another shoal lying off the point on the outside of Shallop Cove, on which are 2§ fathoms, which will be avoided by just opening the point of Deer Island with the first point on the main, within Deer Island; and after you have passed Harbour Island, you may anchor on good ground, in from 10 to 26 fathonfs. The entrance of Deer Harbour bears from the north point of Bocalieu Island, W. + S., distant about 18 longues.

About 24 miles N.E. from the entrance to Deer Harbour is Jones' Harbour, the entrance of which is not above a quarter of a mile wide, and the channel in is, in several parts, still less : it runs in 26 or 3 miles, and has good anohorage in from 5 to 34 fathoms water. . To the southward is a high and steep island, gelled Jones' Island ; about 4 miles from which is Bald Head ; and 3 miles farther is Ganuy Cove, having its entrance confined, being not more than a quarter of a mile wide, but there is, nevertheless, good riding within it in 10, 12, and 10 fathems. About a cable's length off the north shore, just at the entrance, lies a sunken rook, and about a mile S.S.E. off the north shore, just at the entrance, lies a sunken reek, and about a mile S.S.E. from the south point of Long Island, is another rook, by some called White Island, Bandom North Head lies W: by N., distant 94 leagues, from the north end of Booslieu Island, and about 44 leagues N. by W. from New Perilson. BANDOM SOUND lies to the westward, and comprehends several arms and harbours; thus Random and Smith's Sounds units and, form Random Listid, the channels heing narrow long and significant.

channels being narrow, long, and circuitous. At the junction of the two sounds is a small island, with a bar elmost dry at low water, the passage being not a mile

In Random Sound about 3 leagues from Random North Head lies Hickman's Harbour, where you will find good anchorage in 15 fathoms. Random North Head bears from Random South Head N.E. ; E., distance 8 miles. When you are within the entrance of Random Sound there is a branch which runs towards the south-west, named the S.W. Arm, about a mile within which is Fox Cove, fit for beats, and 2 miles farther Little Heart's Ease, a similar cove running in a quarter of a mile, then dividing into two branches; the western one has 4 and 5 fathoms within 2, but the eastern branch is shallow and only adapted for boats. There is also anchorage 2 miles farther, on the same side, in a cove with an island before it, with 8 fathoms, borage 2 and not far from this another cove on the northern side, where a vessel may ride in

SMITH'S SOUND has generally deep water, and is in most places one mile wide, until you get near the head. Shut in Harbour is on the starboard side, near ntrance, and has no safe anchorage, the ground being rocky; 3 miles farther up i of it. The direction of the channel is weatward about 74 longues. To the and of Bandom Island are Duck and Green Islands, both lying a considerable atward of Re distance from the main; the latter is high and may be men so far as Trinity Har-bour, and hears from Bonaventure Head about S.W. J. S., distant nearly 6 miles; and Bonaventure Head hears from the entrance of Smith's Sound E. by N., distant 5 miles. To the north-westward of Green Island is Anthony Island and Ireland's Eye; the latter is 55 miles in length, and lies in a S.W. and N.E. direction, making the port side of the entrance to Smith's Sound. The merthern point of Ireland's Eye

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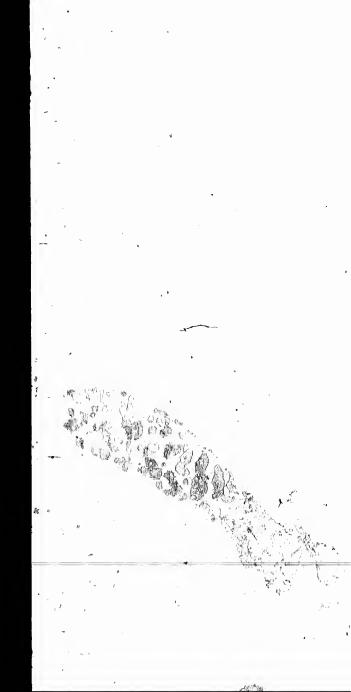
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FROM BOCALIEU ISLAND TO CAPE BONAVISTA.

beers from Bonaventure Head nearly S.W., distant of miles; about midway between these is another small island named Ragged Island.

Ryder's Harbour, & small place of anchorage, on the eastern side of Random Island, is formed by a small island bearing from Green Island W. 1 N., distant 4 miles. The passage to it is found the west end of the point, off which are some scattered rocks, both above and under water. Within this harbour are 3 fathoms water, and about a quarter of a mile from Byder's Island the N.W. arm branches off, running weetward one mile, and being about a quarter of a mile wide ; here are 7 fathoms and good anchorage. From Bonaventure Head te Port Bonaventure are 2 miles, but when you are a mile off, and to the southward of the head, the harbour to the Admiral's Stage will lie about N. by W.

FORT. BONAVENTURE .- The best entrance to Port Bonaventure is between two small islands, but you may go on either side of them in 8 and 4 fathems water ; with a leading wind there will be little danger, and when you are within, and have passed these islands, anchor in 4 and 5 fathoms. Southerly winds here send in a very heavy sea; there is, however, a secure place for boats within a point behind the Admiral's Stage, appearing like a great pond, where 100 boats may lie, even with bad

From Bocalieu North Point to Bonaventure Head, the course' and distance are N.W. 1 W. 221 miles. Bonaventure Head is remarkably high and steep. TRINITY HARBOUR.—From Bonaventure Head to the entrance of Trinity

Harbour, the course and distance are N.E. 1 N. 41 miles, and from Bonaventure Head to the Horse-Chops, E. 1 N., 8 miles.

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Trinity Harbour is considered one of the best and largest harbours in all Newfoundiand, having several arms and coves, where some hundred ships may ride land-locked. It is a place where you may safely turn in or out, being bold to on each side, and having no danger but what is visible; except when going into the S.W. arm, where the Admiral's Stage usually is, there is a shoal, called the Musele Bank, which shoots off from the point within the small island on the port side going in, and extends over N.N.W. about a third of the breadth of that arm. Being within that bank, which will discover itself by the colour of the water, you may edge over close to the south shore, or keep your lead going to avoid the Muscle Bank, giving it a little distance. In order to avoid it, the mark is, or was, the house, standing over the steep perpendicular rock, situated between Tavernor's Point and Ship Cove, open of the Neddick; keep this mark on, until you are half-way over to the Neddick, then haul towards the S.W. branch, taking care to avoid the south shore, till you shut in Tavarnor's Point with the Neddick; you will then go within the Muscle Baak.

You may anchor in from 14 to 10 fathoms and approach near to the stage on shore, so as to make a stage with topmasts to your stage on shore, to load or unload your ship. This will be found a most excellent harbour; for, after you are in the S.W. arm, you will perceive another branch running up to the N.W., which is continued by another to the S.W.; but there is a bar or ledge, at the entrance of this

The N.W. arm is also a large place, having good anchorage for 500 sail of ships. Besides the before-mentioned arms, the main herbour turns up to the north.

Ships, being within the harbour's mouth, may safely ride in a large cove on the starboard or east side, land-locked, on good ground : here the planters live. Over against that cove, on the west side, are two other coves, the southernmost of which is named the Vice-Admiral's Cove, and is very convenient for curing fish; and above, or to the northward of that, is a large cove, or arm, called Gots' Cove, where there is room enough for 300 or 400 sail of ships to ride, all on clear ground ; there, neither winds, see, nor tide can hurt you, and in this place ships may lie unexposed until

There are several other anchoring places in this harbour with good clean ground. The bottom everywhere is tough clay, with 4 and 5 fathoms water, within two boats length of the shere; and 6, 7, 8, 9, 10, 12, and 14 fathoms, and in some places more, in the middle of the arms and channels. You may turn in or out readily, observing your tide, which rises about 4 feet, and sometimes more. Bobinhood's Bay is formed on the south-west side by Sherwick Head. The entrance is a mile wide, and the bay extends northward nearly 2 miles; here vessels frequently ride and fish in from 7 to 17 fathoms water. At the further or upper and

FROM BOCALIEU ISLAND TO CAPE BONAVISTA.

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Random Island, listant 4 miles. some scattered oms water, and es off, running are. 7 fathoms re 2 miles, but arbour to the

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of this bay there are some spots of shallow water, but at its entrance, and between Sherwick and Fox Island Points, there is no danger whatever.

Salmon Cove and English Harbour lie to the eastward of Robinhood's Bay, being only divided from it by a narrow neck of land, called Fox's Island. The former of these runs in northerly, and is considered a good fishing place, at it is clear of dangers, and has a good depth of water, from 17 to 10 and 8 fathoms ; the eastern shore is bold to, and at the further end of the cove there is a small run of water, which extends about 2 miles to the northward.

English Harbour is situated at the south-eastern entrance of Salmon Cove. It is a clean bay, where you may ride in 4 and 5 fathoms water. From hence the coast rounds to the eastward to the Horse Chops, a distance of more than 3 miles, and is all high land, steep to, and without danger. To the north-eastward of the Horse-Chops is Green Bay, open and entirely exposed to the southward, and having at the eastern part of it a small sandy beach with a rivulet of water : this place is little frequented, and is neither convenient for ships to fish or ride in. When you have passed this bay, there is no sheltering cove or place until you reach Ragged and Catalina Harbours.

Ragged Harbour is so named from the rough and craggy appearance of the surrounding rocks, which render it unsafe for either boats or ships to enter; but for those who intend going there, we will observe, that they must go to the northward of the reef of rocks at its entrance, running on North, until the harbour comes quite open, then you steer in between the Round Island near the main, and a large black rock, being the outermost of the ragged ones before mentioned; sail on until you are to the westward of them all, or until you get the south head of Catalina to appear between the westernmost rock and the main, when you may anchor. A river of good water is at the head of the harbour. CATALINA HABBOUR is nearly 2 miles to the northward of Ragged Harbour.

It is a good harbour for small vessels, and may be known by a singular green Island at the south point of its entrance, nearly half a mile to the north of which are the Brandy Rocks, a ledge over which the sea frequently breaks; you may go on either aide of these rocks, giving the little island a borth, or with a leading wind between the island and the main, though this passage is exceedingly narrow, in 4 and 5 fathoms. Just within the entrance of the Harbour is Charlton Bock or Shoal, lying nearly midchannel, over which are only 8 feet water; you must avoid bringing the north point of Green Island on with Burnt Head, the south point of the harbour, for that will carry you right upon the rock. There is a passage between the island and the rock, and also between the rock and the north shore, only steering nearer the main about

LITTLE CATALINA BAY, lies inwards on the southern side. From Catalina Harbour to Little Catalina the course is about N.E. 13 miles; and thence to the north head of the bay, E.N.E. a little easterly, 34 miles. When within the harbour you may anchor close to the shore in 4 and 5 fathoms, land-looked; or to the southward of the little green island in 35 fathoms, or by running up 2 miles farther obtain fresh water. # In the S.W. arm or branch of the river, where there is anchorage in 5 fathoms, the harbour runs westerly. Sometimes the water in this harbour will suddenly rise 3 or 4 feet, then fall again, and in certain seasons it will often do so two or three times in 8 or 4 hours. It abounds with salmon, and the herb Alexander grows Inxuriantly on the little island. Near a small cove at the N.W., is a sort of mineral, of a glittering nature, generally called Fire-stone. Excellent willicks may be found on the rocks,

The course from the south to the north head of Catalina is N.E. # E., 5; miles, and between them from 13 to 5 fathoms water may be found. The whole way is

a kind of broken ground, over which; in blowing weather, the sea breaks very high. From the north head of Catalina to Flower Point, the course is N.N.E. ‡ E., distant 21 miles; and one mile to the eastward of the point lie some sunken rocks. You may go between Flower Point and these rocks, in six fathoms water, but it is more ad-visable to pass on the outside of them; this you will resultly do by bringing Gull Island open of Spiller's Point, or by keeping the south head of Gatalina open of the

BIRD ISLAND. From Flower Point to Bird Island is 2 miles. Within Bird faland is a small bay where ships can occasionally ride, in one branch which runs up

towards the west, and in the other, amidst some rocks which are above water. Bird Island Bay extends so far as Cape L'Argent. From Flower Point to Cape L'Argent is 33 miles; it is rather a low rocky point, having also a large rock above water lying off it.

From Cape L'Argent to Spiller's Point is 11 miles; between these two points the lead falls into very deep water. Spiller's Point is steep and bold-to, but not very high, with a rock above water near it; over the point, you may discern the high land of

Port Bonavista a great way off at sea. From Spiller's Point to Cape Bonavista the course is N. 24 miles; there is a deep bay between, which might be mistaken for the harbour of Bonavista, from the head of which it is only divided by a neck of land, 3 miles over, and from Red Head Bay

FROM CAPE BONAVISTA TO CAPE FREELS.

CAPE BOWAVIETA is situated in lat. 48° 43' N., and long. 53° 5' 30" W., and appears at a distance of a bluish or sky colour ; it is a steep rocky point, having 4

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A revolving light, showing a red and white light alternately, is situated on Can Bonavista. It is elevated 150 feet above the level of the sea, and, kept open of Spiller

About half a mile N.N.E. from the extremity of the cape lies Gull Island, which, though small, may easily be recognized, as it is of moderate beight and elevated in the middle, and makes something like a round hat with broad green brims; it is visible 4 Island, is the Old Harry Rock, of only 18 feet water, from which a reef or bank extends to the N.E. nearly 8 miles, having several dangerous epots upon it, of only 18 feet and 8 or 4 fathoms; the outer edge of this danger is named the Young Harry; at its northern extremity are 10 fathoms water, and a little farther off 45 fathoms. Between the Young Harry and the middle ground of 18 feet, are 12, 20, and 60 fathoms; to the northward of the middle ground are 60 and 40 fathome; to the eastward 19 and 20 fathoms; to the southward, and between it and the Old Harry, 26 and 31 fathoms. At the north part of the Old Harry are 11 fathems; to the westward 30 fathoms; to the S.W. 9 fathoms; and a little farther S.W. 57 fathoms. Abundance of fish are caught by the boats which frequent this bank, but it is very dangerous for shipping. The sea commonly breaks over Old Harry, unless in fine weather and the water be very smooth, but the other parts of the shoal show themselves only in, or immediately after, heavy gales on the shore.

In order to avoid the Old Harry, Gull Island should be brought on with the Green Ridge, which lies considerably inland; but you must be santious, for this mark will carry you too close to the Young Harry. Captain Bullock says — "Vessela running along shore, to avoid these rocks, must be careful in keeping Cape Bonavista open with the westernmost extremity of a high range of land to the southward, called the Inner Ridge; these dangers, together with the long ledge, named the Flower Rooks, already noticed, render it very imprudent for a mariner to attempt making localien is the best and safest land fall for the stranger that is bound to any part of

south; and Cape Freels on the north. The bearing and distance from one to the other dented, rooky, difficult, and dangerous. On the south, the land is high and moundented, rocky, diment, and dangerous. On the south, the land is high and moun-tainous, and the coast steep and iron-bound; on the north side it is low and marshy, and from the shore the water is shoal to a considerable distance. The bay abounds with small islands, and is encompassed with dangers on every side. The harbours, sounds and inlets, are deep, extensive, numerous, well sheltered, and safe; but they are generally so deeply embayed, the passages into them so intricate, and the sur-mundime land so similar in appearance, that their navigation is soldow attances. are generally so deeply employed, the patenges into them so intrinsic, and the sur-rounding land so similar in appearance, that their navigation is soldom attempted, unless by these who, from long experience, have a perfect knowledge of the coast; yet should it become necessary, from stress of weather or other circumstances, for

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Island, which, elevated in the it is visible 4 iles from Gull r bank extends nly 18 feet and Harry; at its me. Between O'fathoms; to itward 19 and d 31 fathoms. fathoms; to te of fish are for shipping. the water be immediately

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FROM CAPE BONAVISTA TO CAPE FREELS.

stranger to such shelter, the places recommended for this purpose are, Barrow and Great Chance Harbours, in the S.W. part of the bay, or New Harbour and Cat Cove on the N.W.; but the extreme narrowness of the entrance to New Harbour is a great impediment, and renders Cat Cove the more preferable.

PORT BONAVISTA .- From Cape Bonavista to Port Bonavista the course is to the south eastward about 34 miles. Vessels steering for this port may pass between Gull Island and the cape, or between Gull Island and the Old Harry Rock, or to the northis about three-quarters of a mile wide, and both the cape and island are steep to, having 4 fathoms close to each side, and 16or 18 fathoms mid-channel; but it will be advisable not to go too near Gull Island, on account of a rock under water, which lies about 300 yards off the south-eastern part of the island. When you have passed through this channel, and find yourself to the westward of the cape, you will see Green Island, distant about half a mile from the cape. Large vessels commonly leave Green Island on their port side in their course to Port Bonavista, going between Green and Stone Islands, where the channel is fully 14 miles wide, and with 12, 16, and 18 fathoms water in it, and no danger except a sunken rock of 3 fathoms water, which lies about 200 yards to the north-eastward of Green Island; or they may go to the westward of Stone Island, and run to the southward till they open the Harbour of Bonavista, and are past Moses Point, and so to the sonthward of the rocks' called the Swerrys, which are high rocks, having no passage to the northward of them. Here you may anchor in from 10 to 8 fathoms, as you please, but you must always have a good anchor in the S.W., and another fast in the Swerrys, or in the N.W., for westerly winds blow

Small vessels may go between Green Island and the main, and so to Red Head ; but the bay between the points (over against Green Island) and Red Head, is all foul but the pay between the points (over against Green Island; and the line, it as a red named the Red ground. About a mile to the south eastward of Green Island is a red named the Red Rocks, lying off Red Cove. You may go between these and the land into Red Cove, as there are 6 fathoms water, and in the cove 41, 4, and 3 fathoms, but the ground is all foul, "There is a passage also to the southward of these rocks, and between them and Western Head, in which are 6 fathoms. There is a small rock under water, a little to the eastward of Western Head, which lies about a cable's length from the ebore, and the see commonly breaks over it, but boats can go between it and the shore. To the southward is Red Head, or Point, and farther on is Moses Point ; between is a large bay or cove, named Bayley's Cove, where you may anchor on occasion, not ad-vancing too far in, as all its chore is rocky and shoal.

Bonavista Harbour is an anohorage of little consideration, farther than being an aligible situation for earrying on the fishery, being so very badly sheltered that, in N.W. gales, immediately following a continuance of heavy winds from seaward, the water breaks right athwart the harbour, and sometimes the whole of the fishing boats founder at their anohors, and not unfrequently many of their stages are destroyed : however, vessels, during the summer months, moor under Swerry Head, in 8 or 10 fathoms; but even there, as in every other part of the harbour, the ground is very

BLACK HEAD BAY is situated 5 miles W.S.W. & S. from Cape Bonavists, and Southern Head is 11 miles W. 1 N. from Cape Bonavista. Southern Head and Black Head form the two extremities of Black Head Bay, and bear from each other E.S.E. & S., and W.N.W. & N., at a distance of about 7 miles. On the S.W. aide of this bay, at about 34 miles to the southward of Southern Head, is the fishing establishment at King's Cove; but this is even a less desirable place of shelter than Bonavista, as it lies directly open to seaward, and has a foul bottom. From Southern Head to Western Head the distance is 34 miles, the coast between forming five coves, at the second of which, Keels, is a fishing village; but neither

forming are coven, at the second of which, Keels, is a fishing village; but neither this nor any of the other coven are fit places for vessels of burthen. "From Western Head the land hende W.S.W. § S., and leads to numerous coves, bays, and arms of the easy most of which have deep water and places of anohorage. We shall have enumerate the principal of these, with their respective situations; but, our directions to a minute or particular description of them all, but confine oursalves to such only as are situated is prominent parts of the bay, and are mostly fitted for general use, and commenty frequented.

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Plate Cove is situated on the coast about 7; miles distant from Western Head ; its entrance, between Arrow Point and Plate Cove Head, is three quarters of a mile wide, from whence it bends in more than a mile to the southward. At its eastern extremity is a run of fresh water, but the bottom is foul and rocky; it is therefore not much

Indian Arm lies about S.W. by W: from Plate Cove Head, distant 3 miles; it is a narrow inlet running in nearly S.W. about 2 miles, and terminates in a rivulet of fresh water.

Sonthward Bay is separated from Indian Arm only by a narrow neck of land, and

is an extensive branch of the sea. Its entrance, between Red Head and Kate's Harbour Head, is fully a mile wide, with 30, 50, 80, and 90 fathoms water in mid-channel: from hence it bends to the south-westward ?; miles, becoming narrower as you advance, but with deep water and no danger. On the western side there is an opening

Head, and directly in the fairway of the navigation. To avoid this danger, do not

is a rock under water off its entrance with 7, 8, and 9 fathoms round it, which lies nearer to Kate's Head, but there is a passage between them, and also a still wider Sweet Bay is another extensive inlet, lying to the westward of Kate Harbour, the entrance to which is between Cutler's Head and Chanes' Point, which entrance, also leads to Maidenhair Cove, and Little and Great Chance Harbours. Sweet Bay is the easternmost inlet. Having entered it, and passed Cutler's Head, which is rocky and steep to, you will see Turfpook Island, which is small and narrow, and has at about half a mile to the south west of it an island named Woody Island, and between them a

rook under water; there is a passage on either side of these, and when you get beyond Woody Island, the bay becomes about three quarters of a mile wide, with 60 fathoms

water midway; advancing etill farther you will observe several islands in your pas-eage; there is also a rock under water on your starboard side, three quarters of a mile

beyond Woody Island ; it lies abreast of a little island which is in mid-channel; farther on is Wolf Island, between which and the main there is no passage ; off this lies Goose

berry Island, between which and Wolf Island there are 30 fathoms water, but the

channel is narrow, and that on the eastern side of Gooseberry Island is much wider.

Sweet Bay here divides into two branches; that to the castward is named the S.W.

arm, and has directly before its entrance. Hunt's Island, the channel to the castward

of which has 10, 12, and 14 fathoms water, and that to the westward 7 and 9 fathoms ;

you will then see on your starboard side a small island, and can pass it on either side,

and, having done so, will drop into 24, 22, and 20 fathoms water; the head of the arm is foul and rocky. The N.W. arm is divided from the S.W. arm a little below Hunt's Island, and at the farther end of Wolf's Island is nearly a mile wide, from

whence it runs south-westerly 31 miles, with a good depth of water, and elear of

The entrance of Great Chance Harbour, which is an excellent anchorage, lies 94 nine environment of Great of the second of the passage to it is clear with the exception of miles W. 3 S. from Western Head. The passage to it is clear with the exception of the Bacon-bone Rock, already mentioned. In sailing for this place the safet way is, not to shut in Southern Head until the tale named Little Denier comes on with the

outer Shag Island. Thus the Bacon-bone Rock will be avoided, and you may steer

for the harbour W. by S., until you get abreast of Chance Point. You must now

guard against a sunken rock, at the southern part of the entrance, with only 6 feet of water over it. Within this rock, and in a line with it, are two islets mamed the

Mustard-bowle; in order to avoid the rock, be careful not to shut in the western Mustard-bowl with the eastern, but, having passed the latter, you may stand boildly in, approaching the shore on either side as you please, and you may anohor anywhere above the narrows in from 11 to 5 fathoms, perfectly land-looked and good holding-

ground. Wood and water may easily be prosured here. Off Chance Point (the outer point of Chance Harbour), and directly in a line be

dangers; at the bottom is a sandy beach and a small rivulet.

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named Hayes Cove, which lies about 2 miles from Kate Harbour Head.

Vessels intending to seek either of these places, must beware of the Bacon-bone Rock, a danger of only 18 feet water, which lies W. # N., distant a mile from Western

shut in Southern Head until Little Denier comes on with the outer Shag Island. Kate Harbour lies to the westward of Plate Cove ; its entrance is three-quarters of a mile wide, and the harbour runs in abont 12 miles, with a depth of water of 36, 29, and 27 fathoms in mid-channel, decreasing as you advance to the farther end. There

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Western Head ; its rters of a mile wide, ts eastern extremity therefore not much

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rage, lies 91 exception of afest way is, on with the u may steer i must now named the the western tand boldly anywhere d bolding. the deam a line be.

FROM CAPE BONAVISTA TO CAPE FREELS.

tween the southern part of Long Islands, there is a spot of ground with 7 fathoms; over which the sea breaks in very heavy gales, but it is not dangerous in fine weather anti-

At the distance of almost a mile, N.E. a little northerly, is the Chance Gull Rock, steep-to, and almost visible. 'To the westward is Deer Island, 12 miles long, but narrow, between which and the main there is a good channel to Chandler's Reach.

Chandler's Beach is the channel leading to Goose Bay and Clode Sound; the course through it is W. 1 S., which, from the N.W. point of Deer Island, will take you to Connecting Point, the point of the peninsula that divides the former from the latter.

Goose Bay runs in south-westerly, about ?} miles, and by keeping in mid-channel you will meet with no danger, but have 47, 40, and 36 fathoms water; until, having passed Lubber's Hole, the depth decreases to 12, 13, 10, and 8 fathoms, when you will see a small island, situated to the westward of Goose Head; behind, and to the westward of this, you may anchor in from 4 to 7 fathoms, or farther to the southward in 5] fathoms. In most of these inlets you will lie perfectly safe, and entirely landlocked. Fresh water and wood are plentiful, and easily obtained.

Clode Sound is a fine branch of the sea, running in from Chandler's Reach full 20 miles; it has many places of very good anchorage, and is without danger. Vessels may find perfect safety on the northern abore, at Brown's Cove, or farther in at Long Cove, or Platter Cove; or on the southern shore, at Bunyan's and Love Coves; or, passing the Platter Rocks, and steering westward, at Freshwater Cove. The midchannel has all the way deep water, and there are no rocks except, as in Goose Bay,

Lion's Den is an opening lying to the N.W. of the entrance of Chandler's Reach. To enter it you must sail to the northward of the Deer and Cluster Islands, and pass the narrows, which is about one-third of a mile wide, and has 24 fathoms water in it ; having passed the entrance about a mile, there is a sunken rock, round which are 4, 5, and 6 fathoms; you may then perceive the inlet to branch off into two divisione; that to the N.W. is very narrow, and has a rocky islet at its entrance; but that which runs to the S.W. is broader, and has 11, 14, and 10 fathoms water in it; it runs in from the sunken rock about 14 miles, and at its farther end becomes shoal, narrow, and rocky.

The Long Islands are four in number, having narrow channels between them, some of which are encumbered with rocks and consequently dangerous. The estern island is the largest and broadest, the next to it is the longest, the two western ones are smaller and narrower; they form the northern boundary of the passage from Western Head to Chandler's Reach, and also the southern boundary to Swale Tickle and Newman's Sound. Off the north-eastern point of the largest of the Long Islands lies a sunken neck, close to the land, and therefore easily avoided ; this point bears from Western Head nearly W. by N. distant 6 miles.

NEWMAN'S SOUND is a large arm of the sea, ranning in W. by N., having at its entrance Swale Island, which is nearly 44 miles long, and not one broad in the widest part ; this divides the entrance into two channels ; the southern passage is called the Swale Tickle, and the northern one goes by the general name of Newman's Sound. To sail from abreast of the Western Head into the Swale Tickle, you should atcor W.N.W. W. To sail from abreast of the Bonavista Gull Mand, stoer W.N.W. & W. 24 miles, and it will carry you's little to the southward of Little Swale Island, and in the fairway of the passage; but in advancing through this channel there are several obstructions, and the passages from thence into Newman's Sound are so nar-row, that is will alwaya be advisable to go to the northward of the Great Swale Island. To do this, having rounded the Gull Island, stepr W.N.W. 1 W. 23 or 24 miles; when you will have the sound open, and can proceed accordingly; it is full 14 miles wide, and extends nearly in a W. by N. direction from the N.E. point of Swale Island 11

miles, having several places of good anchorage. These on the southern shore are South Bread Cove, Minchin's Cove, and Standford Cove. South Bread Cove, Minchin's Cove, and Standford Cove. and is a place of great safety. The passage in is to the south-westward, and you will ride well sheltered in 10 fathoms, free from any danger. There is a small island at the antenne which was will been free from any danger. The entrance, which you will leave on your port side. ' There is a long narrow point of lead running out to the northward, which you will round, and turning southerly, Minchin's Cove will appear open; here you will lie in S

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fathoms, opposite a sandy beach. To the westward is Mount Standford, off the point of which lies a small island, reaching half way over the passage, making the shannel in this part very narrow. The best course through, is to the eastward of this island, in 9 fathoms; here an opening appears to the eastward, called Bucklay's Cove, fit for and 27 fathoms water in it, free from any danger, and shallowing on each side towards, the shores. At the south-western part of this is Standford Cove, having a sandy beach, the approach towards which shallows gradully.

Barrow Harbour, --Little Denier Island lies off the entrance of Barrow Harbour, which lies south westward of it, and is safe and convenient. It is formed by three Goodwin's and the main, and is about 500 yards wide, and not very difficult of access. The harbour is a mile long: the lower part is rocky, and not well sheltered, but the place from Gull Island, off Cape Bonavista, is N.W. by W & W. about 22 miles. In coming from the northward, the course from the Eastern Godseberry Bock towards mater, and lies in lat. 45° 57' north. In this course you will have to avoid the Malone Rock and Ledge, the latter being a shoal, lying S. & W., distant a mile from the rock, which is always above water. This sheal has never lees than 4 fathoms over it, so that, in fine weather, no damage whatever is to be apprehended.

On approaching Little Denier, you must be careful to avoid the Outer Rock, lying three-quarters of a mile, E. # N. from that island. It has only 4 and 6 feet of water on it; but as the sea constantly breaks, it is easily guarded against. Between Little Denier and Richard's Island, there is also a range of rocks, called the Brandishes, at distances from each other, and aztending nearly half way over towards Little Denier, with from 14 to 17 feet upon them; between are channels of 7 and 6 feet of water on the Brandishes, you must keep Wedge Point, (the projection within the harbour,) a harbour,) until you bring Broom Head on with the middle Shag Island; the passage sunken rock, with 8 feet of water; you may then sail up abreast Pudnard, Cove, until yeesels prefer anchoring in Garland's Oreek; but without running well up, the ground is foul. There is a small fishing-establishement here; good water may be procured in Pudner's Cove, and abundance of fire-wood. The land about Barrow Harbour is higher than the neighbouring cost, and may hence be easily recognized.

Sandy Cove, on the north side of Newman's Sound, about 4 miles by ond Barrow Harbour, has good anchorage. It will be readily known, having the only sandy beach the depth of water being from 10 to 20 fathoms. Between this place and Darrow Harbour lies the Half-way Rock above water, but if you keep ontside, and pass to the southward of it, there is no danger, it being steep-to in 4 fathoms.

At a mile westward from Sandy Cove, are Great and Little Adventure Cover, two snug little places on the same side of the sound, but which, from the narrowness of their entrances, are adapted only as a record for small vessels. Between these it. Sydney Island lies off the entrance to Great Adventure Cover; the passage in is to the northward of this island, for between the island and Harbour Healthere is no

North Broad Cove lies also on the northern side of Newman's Sound, and is a convenient well-sheltered anchorage ; its entrance may be known by a high round is and lying on the west side of it, named Black Duck Laland. On sailing in you must seep in order to avoid a sunken rock at the castern side : after which keep as close as rocsible to the castern shore, as a dangerous rock lies nearly in mid-channel; thing inside of which you may anchor in from 10 to 35 fathoms, muddy bottom. Wood and

There are some dangerous rooks lying off the northern abore, in advancing farther up Newman's Sound, one of which is called the Shag Rock, and lies three quarters of

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FROM CAPE BONAVISTA TO CAPE FREELS.

a mile beyond Black Duck Island; and a mile farther on is the Hall's Rock. These rocks are under water, and distant about a cable's length from the land; close to them are 4 and 5 fathoms, and between them and the shore there is a passage of 6 and 7 fathoms; the northern allore, therefore, should always have a good berth in sailing up Newman's Sound, for by keeping nearly half a mile off, you will avoid them all. SALVAGE BAY lies on the northern aide/of the promontory, which divides it from Newman's Sound. Within it are several runs of fresh water, but no place of good abeltar.

The little island named Ship Island lies in latitude 48° 45', longitude 58° 87' 80', and at 8 leigues N.W. 1 W. from Cape Bonarista; and Damnable Harbour lies W. 18. of miles from Ship Island. Ship Island may be known by a remarkable bald point like a sugar-loaf. The harbour is well adapted for small vessels, but its very narrow entrance disqualifies it for ships of burthen; there is a rock off the southern part of the entrance, and another off the northern side of the island, which lies in the middle of the harbour. There is good anohorage all round the island, in 4 to 5 fathoms; sandy bottom. Water may be easily procured, but very little wood. Between Damnable Harbour and Salvage Bay are several small islands and rocks;

Between Diamable Harbour and Salvage Bay are several small islands and rocks; the largest of these is named the Baker's Loaf, and is a narrow island, about threequarters of a mile long. In sailing from Gull Island, Bonavista, to Damnable Harbour, steer W.N.W. # N.,

In sailing from Gull Island, Bonavista, to Damnable Harbour, steer W.N.W. $\frac{1}{2}$ N., about 7 leagues, and round Shag Islands; proceed thence to the northward of the Baker's Loaf, or steer N.W. by W. from the Gull towards Ship Island, and then W. $\frac{1}{2}$ S. from Ship Island to the entrance of Damnable Harbour,

Morris Cove is a safe anchorage, situated on the north side of the island bearing that name, and lies to the northward of Damnable Harbour. In sailing for it keep Ship Island well on board, on account of a dangerous reef which extende from Flat Islands nearly two-thirds of the way towards Ship Island, on come parts of which are not more than 17 or 18 feet. Proceed, therefore, to the northward of Ship Island, passing at not more than half a mile distance, and when you are well inside, avoid shutting in Lackington Bock with Varket Island! (known by its forming two remarkable hummocks), as there are several clusters of rocks between Ship and the Horsechop Islands on the south side. Steer for the Varket until you get abreast of Lackington Bock, then keep Lackington Rock on the northern extremity of Ship Island, until the Varket bears north, to clear two sunken rocks off the N.E. end of Morris Island. You may then sail directly for the cove, which you fin enter without fearing obstruction, and anchor in any part of it, in 25 to 5 fathoms; but the western side of the cove is preferable. Wood is plentiful, but water is scarce in the summer

Bay of Fair and False may contain several good anchorages, but it is so filled with small islands and rocks, that any description that could be given would be of no use to the mariner. A cluster of large islands extends off the frontage of this bay, fully 20 miles, or so far as Offer Gooseberry Island, having between them innumerable passeges, with deep water. There is also a wide channel, running from Fair and False Bay, and Morris Island, to the northward, which leads to Bloody Bay, and then turns weetward, and is divided into various branches, forming the N.W. arm, the middle arm; and the N.E. arm ; this latter being a peculiar and extensive channel, running in one direction, southward, almost to Newman's Gound, and in another, almost to Damnable Harbour; all these are navigable, and afford places of good anotherage, and planty of both wood and water.

There is also an open strait from Bloody Bay to the eastward, through Bloody and Cottel's Reaches, and out to the northward of Offer Gooseberry Island. Other channels branch off to the northward from Bloody and Cottel's Reaches, and between the Lakaman's Islands running into Pitts Sound, Locker's and Contout Reaches, and thence to Freehwater Bay. Within these, and on the northern shore, are Hare, Locker's, Trinity, Indian, and many other lesser bays, coves, and inlets, abounding with gued inchorages, and calculated to afford shelter, for shipping of all descriptions, in cases of necessity. These are, at present, but little known, and frequented only by the communic traders; we shall, therefore, proceed to these which are the usual places of resort and are better situated for the purpose of fishing.

of resort, and are better situated for the purpose of flahing. GOOSEBERRY ISLES, 48.-...The Gooseberry Isles are a cluster of isless, near the middle of Bonavista Bay. The Offer or Outer Gooseberry is in latitude 48° 55'

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ow Harbour, mad by three part between ult of access, ered, but the source to this 3 miles. In ock towards rejust above i the Malone om the roak, 18 over it, so

Rock, lying t of water on ween Little andishes, at ittle Denier, ma. These run clear of harbour.) a top of the the passage yards, lies a Cove, until ma Some the ground procured in Harbour is and Barrow focily safe, nd Barrow pess to the 2- 1151 . 13 Coves, two ween these f water on there is no 1 6 1.61 d is a conund island

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FROM CAPE BONAVISTA TO CAPE FREELS.

30" N., longitude 53° 80' 80" W. From Cape Bonavista, to sail clear of the Eastern Rock, which lies at 1[±] miles to the E.S.E. of the Offer Gooseberry Iale, the course is N. by W. [‡] W. and from thence to Copper Ialand, (at the mouth of Greenspond Safes, which are North-West Arm, New Harbour, and Cat Cove. There is good holding frond between Greenspond Ialand and the main, but the water is so deep that a vessel is liable to drift on shore in the act of weighing, nor is there sufficient room to veer to The course to Barrow Harbour from the S.W., to which quarter it is 8.W. [‡] W. 18 (above water,) which bears the same name: it has never less than 4 fathoms, so that, in the weather, no danger need be approxented.

Ships coming from the eastward, or round Cape Freels, have to avoid the Charge Rook which lies S.E. $\frac{1}{2}$ S. $\frac{3}{2}$ miles from Cape Freels' Gull Island; the rock has only having from 8 to 30 fathoms. From Gull Island, off Cape Freels, you may run immediately for the Stinking Islands, taking cars not to open Cape Freels, you may run imward of the Gull, as this will carry you inside the danger. Keep a good look for the Stinking Islands; but a vessel not bound up the bay, is enjoined to keep well outside frequently with an easterly wind, you will run a great risk of getting hewildered which neither chart nor compass can direct the stranger. Three quarters of a mile N.W. from Gull Island is a rock with 8 fathoms of water upon it.

In the winter months, when the north-easterly gales are very heavy and continuous, the see brease exceedingly high over several spots of the Stinking Banks, which lie E. by N. 23 miles from the Stinking Islands. In two places there are as little as a fathoms on these banks, and, in such weather, although a vessel would not strike, she would be in very great danger of semidering in the tremendous see which would hended.

Having rounded the Stinking Islands, and wishing to sall into New Harbour or Cat Cove, steer directly for the Offer Gooseberry Island, S.W. by W. 4 W. until you bring Pouch and Flower Islands to touch each other; yon will be then 9 miles outside the three rocks which lie at 14 miles to the southward of Flower Island. The outer of the three rocks has on it 3 fathoms of water, the middle 14 fest, and the inner only 11 fest. Now alter the course to W. 4 S., keeping the white face of Chalky Hills, in Locker's dangers, lying without Shoe Cove Point; and should the roughness of the weather you bring Shoe Cove Point (which may be distinguished from its bearing a semblance by W.N.W.

New Harbour is 2 miles to the westward of Shoe Cove Point. With existerly winds it is quite inaccessible, from its narrow entrance; in which case you must continue onward for Cat Gove, lying 4 miles farther up the bay on the same side. Cat Cove is formed by Cat Island, and may be easily recognized, the island being the only part in the vicinity that is covered with live woods, the surrounding forests having been destroyed by conflagration. On steering for this place proceed between Silver Hair rows, and you keep Cat Island and main, and as you approach the latter, the channel narrows, and you keep Cat Island open on your starboard bow. Of the upper part of them being too sheal to pass between ; you may then run till you get some distance hawse open to N.W., the winds from that quarter being in general most beavy and the island, as there is a subhar rock within 100 yards of it, with not more than 10

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North-West Arm, in 4at. 490 7' N., is the best anohorage near Cape Freds, but its access is not without difficulty, from the multiplicity of islands that his in the neigh-

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CAPE FREELS TO CAPE NORMAN.

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bourhood, and which are almost undistinguishable from their great similarity. The greatest dauger you have to encounter, in making this place from the southward, is the Northern Rock, which lies N.E. 14 miles from Copper Island (known by its height and without wood); it has never less than 23 feet of water upon it; so that, in fine ght weather, vessels which generally frequent this coast may pass, over it in perfect safety; but, in hard gales, the sea breaks over it incredibly high. To avoid it, be over it in perfect careful not to open Fool's Island, at the entrance of N.W. Arm (which is somewhat higher and more prominent than the rest, and is covered with trees, except the erown), to the westward of the Western Pond Rock, until you bring Butterfly Island to touch the inner point of Flower Island, or until Puffin and Copper Islands touch each other; then, leaving the Pond Rocks on the starboard hand, steer in for Fool's Island, which it is advisable to keep well on board, as there is a sunken rock lying exactly in mid-channel, between it and Partridge Island Rocks, with 18 feet upon it; to clear which, it is impossible to give a descriptive mark. The course then into the Arm is N.W. 2 W., and as soon as you get inside Odd Island, you may anchor in muddy ground with from 7 to 9 fathoms, Fool's Island Hill bearing S.E. to S.E. by S. During the dry summer months, vessels are compelled to send to Loo Cove for water, nor is wood to be procured on this part of the coast within the distance of 12 miles.

Greenspond Tickle is a small harbour on the south-eastern side of Greenspond Island. The island is about a mile in breadth each way, and a reef of rocky islats runs off the southern part of it, all the way to Puffin Island. The harbour is of very little importance, not being capable of receiving vessels whose draught of water ex-ceeds 14 feet; its daugers are the Northern, the Cook-room, and Harbour Bocks, but it is impossible to get in with a foul wind, or even with a fair one, without a pilot. It is impossible to get in with a boil wind, of even with a bit one, windout a pict. Ships sometimes anchor between the island and the main; but the place is contracted, and the water is very deep, and it is much exposed to S.W. winds, so that it cannot be recommended as a place of safety. To sail into it, you must pass to the westward of Copper Island, in doing which you must cautiously avoid the Midsummer Bock, which lies ene mile off W. by S. 2 S. from that island, and has only 6 feet water on it: when you shut in Silver Hair Island with Shoe Cove Point, you are inside the danger. You should also give Newals and Ship Island a wide berth, as the water shoals off them to a considerable distance.

CAPE FREELS TO CAPE NORMAN.

CAPE FRANCE is formed of three points, the South Bill, the North Bill, and the Middle. or Cabe Freels, about which there are many shoals and rocky dangers; therefore, a wide berth should be given them at all times. Over these points is some high land, commonly named the Cape Ridge, which is visible at a considerable distance.

About 64 miles N.N.W. & W. from Cape Freels, is the Outer Gat Island, which is connected to the main by a sandy reef, impassable for shipping, and forming the southern point of Deadman's Bay. A little before you come to the Outer Gat, you will see a remarkable hill named the Windmill Hill, and near it the Little Gat. Island. In sailing to or from Cape Freels, the shore should have a good berth, although there are soundings all the way, decreasing gradually towards the shore. Desdman's Bay is formed by the Outer Gat Island to the southward, and Desdman's Point to the northward; the soundings within it are regular, and there are no rocks, except those close to the shore, but it is totally unsheltered, and open to all r win

easterly winds. PENGUIN ISLANDS.—Having passed Deadman's Point, you will approach the Penguin Islands, two in number, bearing from Cape Freels N.N.W. 1 W. distant 14 and 16 miles. Between them the passage is clear, with from 51 to 7 fathoms water, but vessels should not go within them and the shore, for there are several rocky reafs which ronder it particularly dangerous. FUNK 18LANDS.—The Funk Islands which lie N.E. ‡ E. from Cape. Freels, "Funk 18LANDS.—The Funk Islands which lie N.E. ‡ E. from Cape. Freels,

distant 61 miles, are a little group of rocks, just above water. The large is not half a mile long, and cannot be seen farther than at the distance of 10 or 12

miles; but it will always be distinguished by the great number of birds continually hovering over it. About 200 yards north of the largest Funk Island is a large rock bove water, and N.W. by W. 180 yards from this are still larger rocks; they are all barren, and only the resort of ess birds, that inhabit and breed there. Between these rocks are 16, 37, and 42 fathoms water, with a clear passage ; but between the castern rock and the largest island there is a dangerous sunken rock, of only 10 feet water, over which the see generally breaks; near this sunken rock are 14 and 16 fathoms, and between it and the largest island 30, 25, 50, 58, 24, and 17 fathoms. Off the west-ern point of the largest island are some rocks, and at its eastern part a sort of oreck with 5 fathoms in it. A ledge of rocks is reported to lie S.W., from Funk Island, at the distance of 7 miles. A Correspondent of the Nautical Magazine writes: "About the latter part of November (1860), there was a high sea from the N.E., during which they (a parts of seamen on the island) observed a great number of shoals, which were counted, and found to amount to 23, continuing nearly round the island, a small are of 33° 45' only (from W. by N. to N.W.) being clear. Upon a close observa-tion, the principal of these choals, and the most dangarous, as being furthest from the island, and therefore less liable to be apprehended, was seen to break about 2 miles from the shore, bearing S.W.; the rest showing an almost continued breaking three miles in extent from the island.

Between Funk and Wadham Islands a dangerous rock was discovered on the 28th September, 1836, during a gale and very heavy sea, by Captain Evan Percy, in the brig St. John. Heavy breakers were distinctly seen upon a rock bearing W. 1 S. a little southerly, about V miles from the Funk Islands. The bearing was taken in a fine clear evening, and it was the opinion of all on board that the rock, though not appearing above water, would take up any vessel. The position given to it is about latitude 49° 41', longitude 53° 16' W.; but the channel between Wadham and Funk Islands must be cautiously used, as the exact position of this rock cannot be de-

A rock is said to lie 7 miles N.N.W. from Funk Islands, and a sheal, named the Cleopatra, is said to lie 8. W. by W. & W. 20 miles and Funk Islands, and about 11 miles to the eastward of Fogo Island; but both these faiter positions are doubtful. Durel's Ledge, or Snap Rock, is a dangerous reef, said to lie about 7 leagues N.W. by N. from Funk Islands, and to cause the sea to break over it continually. Nearly N.W. by W. distant 8 leagues from Durel's Ledge, is another danger named Cromwell's Ledge, which is supposed to bear E.S.E. # E., distant 10 or 11 miles, from Little Fogo Islands.

RAGGED HARBOUR .- This harbour lise to the north-westward of the Penguins, distant 6 miles. The mainland bereabout is low and sandy, and the passage from the eastward rocky and dangerous; it should therefore not be attempted by a stranger, or without a pilot. To the north-weetward is Ladle Cove Island, and 7 miles beyond that is Rocky Bay, which lies in about latitude 49° 25' N. and longitude 54° 10' W. At its entrance lie three islands, Noggin Island, Green Island, and farther in, White Island. You may pass between each of these islands in 7 fathoms; between Rocky Point and Green Island in 7, 8, 13, or 10 fathoms; between Green and White Islands in 18 and 14 fathoms; and between Noggin Island and the western point of the bay in 34, 7, 12, 9, and 4 fathoms. of these bays, for there are three openings, is rocky, and vessels cannot go far into

THE WADHAM ISLANDS .- These consist of a cluster of islands in about 49° 35' N., lying to the north-westward of Cape Freels, and are separated from each other 30° N., 19ing to the north-westward of Cape resen, and are separated from each other by channels more than 1 and 13 miles wide. The largest is named Peekford's Island, which is about 14 miles long, and lies in the direction of north and south, and bears from Cape Freels nearly N. 5 W., distant 21 miles. From its southern part towards the land about Ragged Harbour, there are a number of rocky filets and reefs, with obtainels between them, rendering the navigation of this part extremely hazardous. About 14 miles N.N.W. 5 N. from Peekford's Island is White Island, but a passage the tail which have been them and the there are available and reefs the between them should not be attempted, for there are several small rocks lying off the as far as White Island. N.W. by W. from Peckford's Island, some of which extend over almost Copper Island: Duck Island lies W.N.W. + N. 21 miles from Peckford's Island, and Law the top will dealers with the most application use the main statistication of the

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about a similar distance S.S.E. } E. from Copper Island. There are also some small rooks lying off the N.W. and of Duck Island, which, being visible, can always be avoided with ease.

The S.S.W. rock is above water, bearing from Offer Island S.S.W., distant 21 miles, and has near it 18, 17, and 31 fathoms. About N.N.E. distant 2 miles from the S.S.W. Rock is a small flat island; and a little more to the eastward is Offer Island; this is the most easterly of all the Wadham Islands. There is yet a rock to describe which lies E.S.E. 1 E. from Offer Island, distant about 11 miles, named the E.S.E. Ground; this is dangerous, and must have wheth in passing either north or south of it. The Tom Cod Book, also dangerous, lies three-quarters of a mile S. by W. from Offer Island.

FOGO ISLANDS lie to the north-westward of the Wadham Islands. Great Fogo is 4 leagues long and 9 miles broad : off its south-western point lie the Indian Islands, and N.E. by N. 34 miles from the body of Great Fogo, are the Little Fogo Islands. Numerous other rocks and small islands are scattered about them.

Fogo Harbour lies on the north side of the island; it is considered good for the fisheries, but its entrance is dangerous and difficult. There is a strong current running south-eastward, especially with a westerly wind, to guard against which as much as possible you should hug Fogo close on board, until you open the entrance, which is narrow; having found this, run directly in, keeping right in the middle, and you will carry 6, 6, and 4 fathoms throughout; this is named the West Tickle. When you are through, if intending to anohor in the western bight, you must steer south-eastward until you bring the point between the height N.W. by W. to avoid the Harbour Rock, which seldom appears except at low water, epring tides; then haul up to the westward, and anohor in from 6 to 5 fathoms, good ground and well sheltered.

⁹ Vessels from the eastward, and bound to Fogo Harbour, should avoid the Dean's Rock, a sunken danger lying between Joe Batt's Point and the harbour. Sizes W.N.W. until Brimstene Hill, a remarkable round mountain, appears in the centre of the harbour; then steer for the East Tickle, which may be known by the lantern on the top of Sim's Island, making the west side of the Tickle. Give a good berth to the point on the starboard side, and vun right up the harbour; keeping near the south side, and you will earry from 5 to 3 fathoms through. Immediately you get round the point, steer S.W. to avoid the Harbour Rock, and follow the directions given abovefor anchoring. The Middle Tickle appears the wided, but it is fit only for boats; either of the other two must be adopted as best suits the wind.

The Little Fogo Islands are nearly surrounded by rocks, both above and under water, making this part of the ceast exceedingly dangerous. To the eastward of Little Fogo is a small rock just above water, named the North-Eastern Rock, and somewhat in this direction, distant 10 or 11 miles, is said to lie Cromwell's Ledge, whose exist position is not well determined, although it is considered to be extremely dangerons. Northward of Little Fogo are the Turr Rocks, and from hence, in the direction of the western side of Great Fogo Jaland, are the Storehouse Rocks, the Seals Nests, Gappy and Stone Islands, the Jigger and Black Rocks, and various other dangere, all having deep water round them, which increases the dificulty of the navigation.

¹⁷ Ireland Rock lies about 4 miles E.N.E. of Little Fogo Islands. It is the northeasternmost of the Foge Reefs and the sea always breaks on it. ¹⁷ The reefs extend nearly 13 miles in a westerly direction from Ireland Rock to Fogo Head Rock, which lies about a mile north-westerly direction from Ireland Rock to Fogo Head Rock, which lies about a mile north-westerly direction from Ireland Rock to Fogo Head Rock, which lies about a mile north-westerly direction from Ireland Rock to Fogo Head Rock, which lies about a mile north-westerly direction from Ireland Rock to Fogo Head Rock, which lies about a mile north-westerly direction of Fogo Head Rock, which distance of 4 miles S.E. by 8. from the Little Fogo Islands, and 5 miles castward of the N.E. part of Fogo Island, he the Barrack Rocks, which extend N.W. and S.E. fully a mile, and part of them are above water. ¹⁸ At the distance of 2 miles south eastward of the Barrack Rocks, and 7 miles N.E. ¹/₄ E. from Cape Fogo, is situated the Inspector Rock, on which the sea generally breaks.

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the points, and steer directly through in safety. ISLAND OF TOULINGUET.—This island lies to the westward of Fogo, and has several small islands about it. Here is situated what is named Toulingues Bay ; and to the south westward of Toulioguet Island, is the Harbour of Herring Neck, which is said to be a spacious fine harbour, and fit for any vessels.

From Toulinguet Bay to Cape St. John, the course is N.N.W. 10} leagues. From Toulinguet Bay to Cape St. John, the course is N.N.W. 10} leagues. CAPE ST. FORM is a high rugged point of land, situated in about lat. 49° 68' N., and long. 55° 30'.W., and may be readily known by the small round island to the eastward, distant from the northern pitch of the cape about 5 miles. This is named the Gull Island, and it his third of that name on this side of Newfoundland. Cape St. John is the point where, by treaty, the Freich fisheries begin; their boundary continues thence northward and round the western coast, as far as Cape Ray. At mostly two miles to the anythward of Care St. John lis the Bithen Bode over

At nearly two miles to the southward of Cape St. John, lie the Bishop Bocks, over which the see breaks in bad weather. There are several fishing harbours on the coast to the southward of the cape, particularly Shee Cove, Tilt Cove, and Snook Harbour ; the latter the best with south-easterly winds.

There are said to be various deep bays and inlets between the Fogo Islands and Cape St. John, but their particulars are very little known, although there can be little doubt that the Great Bay and River Exploits, and the Bay of Notre Dame, afford many places of good anchorage, and of easy access, which when fully explored, may become hereafter frequented, better understood, and prove highly. beneficial.

Bounding Cape St. John, and at about 5 miles to the westward, is the harbour of La Scie, to sail into which there is no danger whatever, but it is open to winds from the N.N.W.; which send in a heavy sea. The best holding ground is just within a little cove on the starboard side, in 15 fathoms, muddy bottom ; but the ground is not good farther in.

Great Bound Harbour is a good and convenient place for vessels engaged in the fishing trade; there is no danger in sailing in or out of it, both shores being bold-to. The anchorage lies within the two inner points, where vessels may ride in 4 or 5 fathours water, secure from the weather, and entirely land-looked. Little Round Harbour, which lies round a point to the north-eastward, about 13 miles distant, is merely a cove, and totally unfit for shipping.

PACQUET HARBOUR lies about 5 miles N.W. by N. from Great Round Harbour; its entrance bears from the channel between the Horse Islands, nearly S.W. by S. 11 may be known by its southern head, which is a high and rocky mountain ; the northern head is somewhat lower, and there are three rocky islets lying directly off its point. Both points are bold to, but a little to the southward of the rocky islets, is a small shoal with 21, 3, and 4 fathoms upon it; the channel between it and these e three rooks has 7, 8, and 9 fathoms, and the water across the entrance is from 8 and 9, 10 19 and, 20 fathoms. A similar depth continues more than a quarter of a mile in, where the harbour divides into two channels, the one running northward, the other West and South-West.

The northern arm is about one quarter of a mile long, and has 20, 18, and 19 fathoms at its entrance, becoming shallower as you advance. Vessels running in here should keep the starboard abore on board ; for about two-thirds up the channel, on the port side, there is a rocky shoal; a small part of which occasionally appears above water; on the other part of this shoal are from 3 feet to 4 fathoms. Having passed this shoal, steer up mid-channel, and anchor in 5, 7, or 8 fathoms; the northern part near the land becomes shallow, and a rivulet here falls into the bay, which is said to near the land becomes shallow, and a rivulet here falls into the bay, which is said to issue from some extensive lakes about two miles inland. The south-western channel is somewhat narrower than the northern one, but is quite free from danger; the shores on both sides are steep-to; and bold, and you will have 12, 10, 9, 8 and W fathoms for half a mile in; it then shallows to the head of the bay, where there is a sandy beach and a river running southward. This is a sang and secure place for vessels to run into whenever occasion may require. To the northward of the northern point is a mountain, named Signal Hill, usually having a signal-post upon it, and serving to point out in situation. point out its situation. Apietal The entrance to Pacquet Harbour should not be attempted when the wind is

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between N.W. and S.W., as the squalls off the land are then both heavy and changeable; and to miss stays, when in the narrows, would be dangerous. If apprehensive of bad weather, it would be better to make for Round Harbour. Minge Bight and Verte Bay lie to the westward, but although the anchorage is good, they are but little frequented.

Tan ST. BARBE, on HORSE ISLANDS, are situated nearly midway between Partridge Point and Cape St. John, bearing from the latter N. by W. and N.N.W. distant about 5 leagues. They are two islands, forming a circuit of nearly 3 leagues, and appearing moderately high. There is a rock above water lying to the nouthward of the easternmost, distant 14 miles; and on the east side of the same island are some sunken rocks which stretch ont in some places near a mile from the shore. At the S.E. part of this island there is also a small cove, fit only for boats. There is a safe shannel between these islands, with from 40 to 48 fathoms, black mud, but it is seldom attempted. The eastern island is the largest. About 3 miles, N. 2 E., from Pacquet Harbour lies Hardy Harbour, having Wood Island lying before it. Flahing is carried on here, but with atrong see winds it is inconvenient. To the extent of nearly 2 selles' off, the north side of Wood Island it

About 3 miles, N. 2 E., from Pacquet Harbour lies Hardy Harbour, having Wood Island lying before it. Fishing is carried on here, but with sitting see winds it is inconvenient. To the extent of nearly 3 cables' off, the north side of Wood Island is rocky. Five miles north-westward of Wood Island lie the Minge Islands, which consist of two large rocks, lying off the N.W. point of Minge Bight, having a passage between. Two miles N. by W. of the Minge Islands lies the Sister' Book, on which the see always breaks. A dangerous rock lies about three-quarters of a mile to the northward, with only 3 feet water on it. These latter rocks lie near the centre of the entrance to Green or Verte Bay.

Fleur de Lys Harbour lies to the northward of Minge and Verte Bays, and about 3 miles to the sonth-eastward of Partridge Point, and derives its name from three remarkable hillochs just over it. It is small, safe, and secure from all winds; and excellent anchorage, in 4 fathoms water, may be found in its N.E. arm. A rocky shoal lies 100 yards off the island, to avoid which you must borrow towards the eastern shore itntil you get Bluff Head open of the island. There is plenty of wood, but the water becomes scores in a dry season. It is, howsver, very conveniently situated for the fisheries, and is commonly frequented by French vessels.

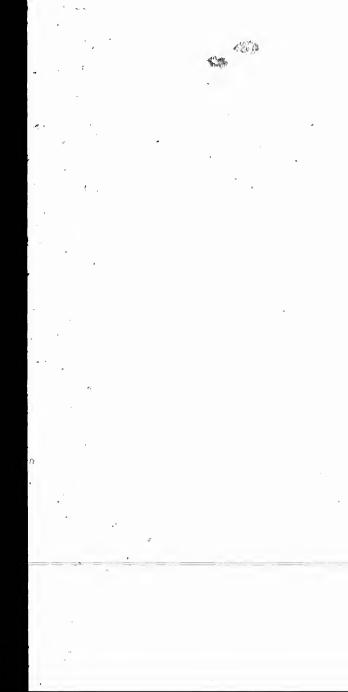
WHITE BAY is a large and extensive arm of the esa, being at its entrance, from Cape Partridge to Cat Head, fully 6 leagues wide, and running in a south-westerly direction, about 15 leagues, to its upper end, where it is contracted to a river's mouth, 14 miles wide. In this bay or guil are several islands, coves, and inlets, affording both anchorage and abelier.

Lobster Harbour lies about 4 leagues southward of Partridge Point, and is a small round harbour, with a shallow narrow entrance, having at low water, in some places, not above.8 or 9 feet water; but when you are once entered, you will have 12 and 13 fathoms all over the harbour. Small vessels, therefore, sail in, commonly, at the flood tides. It is high water, F. & C., about 6h. 45m.; springe rise 6, nange 4 feet.

Southern Arm lies about 5 miles from Lobster Harbonr, and farther up the bay. Here a ship may anohor with great safety, in 17 fathoms water, about 3 miles within the heads; but there is also good anchorage in any part below this, and before you are advanced so far up, in 20 and 25 fathoms. A little above the inner point, on the northern elde, is a muscle bank, which stretches quite across the arm, and nearly dries at low water; and when you have passed this you will have 11 and 13 fathoms water, and the channel continues deep until you approach the rive's head. This is the first great inlet on this side of the gulf, and may, therefore, be readily recognized.

Middle Arm lice about 14 miles W.S.W. from the Southern Arm; at its entrance is a rocky island, which is joined to the shore by a shoal, over which are 1 and 2 fathoms water. This inlet runs in to the southward, about 3 or 4 miles. To enter it, you will do well in hesping the port shore on board; it is fitted only for small vessels. Two leagues W. by S. from Middle Arm is Hawling Point; and between them lie the Pigeon Islands, about which the ground is good for fishing.

Western Arm lies S.E. of Hawling Point, and runs up nearly 4 miles; here large vessels may anohor in from 14 to 16 fathoms water. There is a dove on each side of its entrance; that to the north-eastward is named Boar Cove, where smaller vessels may moor escurely, and ride safe from all winds, in about 12 fathoms water; the other



is named Wild Cove, a very indifferent anchorage, epen to the north-westerly winds and the bottom rocky and foul.

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About 5 leagues down from the river's head, and near the S.E. side of the bay, lies Granby's or Mid Bay Island, without either cove or place of shelter. On the southeastern part of this island is a shoal rufining off, the length of 2 cables, with not more than 9 feet water over it ; and nearly abreast of this island, on the S.E. aide of the bay, is Purbeck Cove, where shipping may find safe anchorage, and lie with good convenience for the fisheries.

Having passed to the southward of Granby's Island, the bay narrows and runs up about 5 leagues towards Gold Cove ; where the river branches out into several streams ; and is commonly named the River's Head.

Son's Arm .- On returning up the western side of White Bay, you will perceive Sop's Island, about 8 miles in length, and 11 miles in circuit ; near its western and is Goat's Island. These form a long passage; os arm, named Sop's Arm ; at the northern part of which a vessel may safely anchor, just inside the north side of Sop's Island ; this will be the best side of the channel or passage into the arm ; but there is anchorage in deep water between Sop's Island and the main, before you reach so far up as Goat's Island. ... There is also a small cove at the north end of the island, named Sop's Cove; and two other coves opposite the main, named Hart's Coves, in all which the fisheries are carried on, although ships generally anchor in the upper part of the arm and inside of Goat's Island.

Jackson's Arm lies about 81 miles to the northward of Sop's Island, to enter which you will pass a ragged point, low and round : the water here is deep, except in a small cove on the starboard aide, where a vessel should moor head and stern. This place affords the largest timber in White Bay. Frenchman's or French Cove is about 2 miles to the northward of Jackson's Arm, and offers good and safe anchorage. In visitas S. A.

Four miles to the north-edstward of Frenchman's Cove is Coney Arm Head, the most remarkable land on the western side of White Bay, and bears W. + N., distant 84 leagues from Cape Partridge. The land here projects out 14 miles, forming a deep bight, named Great Coney Arm. In this place there is no good shelter for shipping; but in Little Coney Arm, which lies to the westward of the head, is convenient anchorage for small vessels, although its entrance is too shallow for large shipe; here fishing-craft frequently rendezvous."""""""

About 10g miles to the north-castward of Coney Arm Head, lies the Great Cat Arm, and 2 miles farther is Little Cat Arm. In Great Cat Arm the depth of water is from 87, 35, 29, 37, 34, 30 to 15 fathoms, at the end of the arm; where it is quite safe, and sheltered by the land. At the end of the north point lie some rocks, which are above water ; to avoid them, keep quite close to the south shore ; but in going into Little Oat Arm, it is better to keep on the north side, as there is a rook near the land on the opposite side. The entrance to this arm is narrow, and there will be found in it a opth of \$3,9, and 8} fathoms; the least depth of water will be found on the south side of the barbour, within the points: dall 自由中国的一位有任何平均

Little Harbour Deep is much exposed to south-easterly winds, and by no means a good harbour ; off its northern point are some rocks, always above water, means a good harbour; off its northern point are some rocks, always above water, which his half a mile from the shore, and afford good fishing about their sevirons. The water is not very deep in any part of this inlet, and when you get up half-way from the entrance to the head, or farther end, it becomes quite shoal. Grand Vache is an inlet about 14 miles deep, lying one taile from Little Harbour Deep: If is also open to the southerly winds, and may be known, when hear the shore, by the northern point appearing like an island, and bearing N.W. 3 N. from Cape Partridge; it is but an indifferent place for shipping, and coldon frequented. From hence, 7 miles in a north easterly direction, is Orange Bay, or Great Harbour Deep, and the north easterly direction, is Orange Bay, or Great Harbour Deep, may be known from any other inlet, by the land at its entrance being much lower than my indeer land on the nosth side of White Bay and by its bout a bout a being show of the insert black of the insert black of the ing a tits entrance being M.Y. W., distant 0 being son Cape Partridge; it forms a large harbour, and when you get about 0 miles within its entrance, divider into two branches. In the northern arm the water is too deep for receive is no another, until they fathems head. A little within the entrance of Orange Bay, there is a cove on each side, frequented by the fishing-vessels; but there are very dangerous for a ship

sail side, frequented by the Ashing vessels ; but these are very dangerous for a ship

to lie in, for although they moor head and stern, yet should a gale come on from the eastward, there is little safety to be depended upon.

Proceeding about 11 miles along the coast you will arrive at Fourchée, a place little frequented, and having no anohorage until you approach its farther end, where you will find s cove on the northern side. This cove is 2 or 8 miles above the entrance, and very small vessels may anchor there in 18 fathoffis, mooring head and stern. The land on both sides is extremely high and steep to the shore. There is also another arm running in about 2 miles farther than the cove, but it is so narrow, and has such a depth of water, that it is almost useless to shipping.

About 5 miles to the north-eastward of Fourchée, and about 6 miles to the southwestward of Canada Head, lies the entrance to Hooping Harbour, or Sans Fond. It has two arms or bays, the one running up northward, the other westerly. Captain Bullock recommends, as safe anchorage, near the head of the northern arm in 6 fathoms, although open to the southward ; yet the western arm is more sheltered, and the water is much deeper, having 16 to 24 fathoms near its head. The entrance

of this harbour lies N.N.E. J. E., distant 27 miles from Partridge Foint. About 6 miles N.E. by E. J. E. of Hooping Harbour lies Canada Head. It is elevated land, and very easily distinguished either from the northward or southward; but when directly to the eastward of it, it becomes difficult to recognize it from the high land up the country at its back. 10.0.0 A. r. is We mains Sugar

CANADA BAY is an inlet of considerable size and extent, having at its southern entrance Canada Head, from whence it runs N.N.-Easterly full & leagues; here vessels caught in eastirly gales may seek shelter, and anohor in safety. In entering, when you get above the two rocky, isless which lie near Bide's Head, and named the Gross Islands, you will see a low white point, and another black one a little beyond it; off this latter, distant 2 cables length, lies a sunken rock; keep, therefore, towards the middle of the bay, and you will find no danger, aroopt a rock above water, which lies about a mile below the point of the narrows; this you will endeavour to leave on your port hand, keeping mid-channel, and you will have 10 fathems through the narrowest part. Soon after you have passed the narrows, the bay widens, and is above a mile across, and you may then anchor in from 18 to 90 fathoms, good holding ground, and secure from all winds; but this bay is not much frequented, and only occasionally resorted to in case of necessity."

Englée Harbour is situated on the north side of Canada Bay. To sail into this place you must pass a low point, appearing white, and forming the northern point of entrance to Canada Bay; then keep near the shore until you get abreast of the next point, which makes the harbour ; haul round to the S.E., taking care not to come too near the point, for it shoals a full cable's length off. Having so far advanced you can anchor in from 15 to 7 fathoms, good holding ground ; but this is well up the cove, which is too small to lis in, unless you moor head and storn. And it is a statistic or the statistic of the

good anchorage; the water being too deep ; but within the south and of Engles Island is a good harbour for shallops, although from thence to where the ships lie, there is no channel, even for boats, unless at high water, or beyond half tide. Goufre Harbout lies in the S.W. corner of the bay, about 2 miles westward of Canada Head, and 3 miles from the north point of the entrance. In this harbour,

which runs in S.W., nearly a mile, is good safe anchorage, in 15 fathoms, well abeltered from wind and sea. Canada Harbour is the first on the port hand within Canada Head ; here is a fighery establishment. As it is unsafe with N.E. winds, the ships anchor in Goufre, and only use this harbour with boats.

Conch Harbour bears nearly E.N.E. ; E., distant 11 miles, from the entrance of Canada Bay ; it lice very open to the winds from the south, but has good anchorage well up to the head, in 11 fathons water, good holding ground, S. by W. from

well up to the head, in 11 rathons water, good solding ground, D. by w. Hom Oonch, distant 2 leagues, is Hulliard's Harbour, (named Botitot by the French.) which is a bad place for shipping, but very convenient for the fishing oraft. Cape Rouge Harbour lice E.N.E. from the harbour of Conch, and bears N.W. by W. from the south and of the island of Groais, distant 3 leagues : its northern part is named Cape Rouge. Shelter from the heavy swells of the Atlantic is afforded by Greais and Belle lake. It is shellow and rocky in the southern part of its entrance, and the harbour sheal lies in the S.W. arm. The best anchorge is in the morthern Shina way hat hat one and hot has the southern in a mothern in the southern in a southern in the southern in a southern in the southern is a southern in the southern in the southern in the southern is a southern in a southern in the southern is a southern in a southern in the southern in a southern in the southern is a southern in the southern in the southern is a southern in the southern is a southern in the southern is a southern in the southern in the southern is a southern in the southern in the southern is a southern in the southern is a southern in the southern is a southern in the southern in the southern in the southern is a southern in the southern is a southern in the southern int arm in any depth of water. Ships may beat in or out, but there is no anob rage in

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the centre of the harbour as it is too deep. A small island, named Rouge Island, lies directly opposite to its entrance; its northern end requires a berth in passing.

BELLE AND GROAIS ISLANDS .- These islands lie off the N.E. coast of Newfoundland, from which they are separated 9 or 10 miles. Belle Isle is the southern-most and larger island, being 9 miles in length, and 6 broad; there is a little harbour at its south part, where fishing craft occasionally resort, but not calculated for shipping: other coves may be found about the shores of the island, where shallops sometimes take shelter. Off its western side lies Green Island, a small rocky islet, and to the southward a bank of soundings extends with 12, 20, 25, and 30 fathoms. There are some rocks, both above and under water, at the south point of Belle Isle; some of these lie 2 miles from the land. "The south rock, above water, lies 2 miles S.W. from the south point of the island, and a sunken rock lies one-third of a mile S.W. of it; this is the southernmost rock."

Groais Island lies to the north-eastward of Belle Isle, and is about 7 miles in length, and 3} miles broad ; its northern point lying in latitude 50° 59. Off this end, and also off the N.W. part of the island, are several rocks above water; other-wise this island is bold all round, and between it and the main are from 20 to 70 fathoms water. The channel between it and Belle Isle is 5 miles wide, and in it there are from 40 to 58 fathoms, dark mud and rotten shells. In order to clear the rocks lying off the N.W. point of the island, the N.E. point should not be brought to the southward of S.E.

CROC HARBOUR, the central point of the French station, is easy of access, although somewhat difficult to discover, persicularly when making the land directly from the east; it is well provided with wood and water. When the north part of Belle Isle is clear of the southern part of Grosis, you will be a little to the southward of the harbour; and this mark will not fail to point out its situation, especially as the headland, forming the southern shore, is bare of trees, and has a round appearance. The rocks off this headland will also help to distinguish it.

The entrance is about two thirds of a mile wide, between Cape Vent (Wind) on the south and Cape Groux on the north, with a depth in mid-channel of 18 to 30 fathoms at low water, sand, gravel, and rock. At the foot of Cape Vent, just outside the hap-bour, are two rocky islets, having a passage between them fit for boats; the outer rock is clean close to, so that a vessel may pass pretty near it, there being 6 to 8 fathoms a short distance off. In the chart there is a plan of the harbour which should be referred to.*

When within the harbour, the south shore will be observed to run first W. by N. and then to the W. by S., forming the S.W. bay, which is seldom used on account of being exposed to N. and N.E. winds; yet small vessels, drawing 9 to 10 feet water, occasionally run up to the head of the bay, and anchor between the islet and small fishing station of Petit-Maltre, opposite the stage, but it is necessary to moor fore and aft. A little within the entrance of the bay, on its western side, is a rock above water, named the Folls or Balsine (WAsh) Rock, on which the sea always breaks; in sailing up, it must be left to starboard, and as soon as based, you must bear over to a small bay, named Bidre Cove, to avoid a breaker which lies in the direction of the islet ; after this, steer between the islet and Petit-Maître. From the entrance of the S.W. bay the harbour runs N. by W., and after a short distance divides into two arms, one named the Fond, running to the northward, and the other Epine-Oadoret, towards the south west.

There is anchorage, in any part of the harbour, on a bottom of dark slats coloured mud, and soundings of 38 to 9 fathoms; but all parts of the bay are not considered to mud, and soundings of 35 to 9 mithons ; but all parts of the bay are not considered to be equally good. The best anchorings is considered to be at the entrance of the Fond, in 18 or 19 fathons, alayey mud, well protected from casterly and waterly winds; at this position Cape Vent is concealed by Point Genills. With a strong brease from the N.W. it is difficult for a large vessel to task so as to reach this anchorage, in that case it is predent to inchor near Point Grout, the north side of the bay, on a rocky bottom of 16 to 30 fathons (34 mitres), and to wait until the brease moderates, so as to allow you to come mere within. There is also anchorage in Epine-Cadorat, but it is soldom necessary to go so far in.

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rally squally. North easterly winds are also prevalent in had weather, but they never cause a very heavy sea. In Epine-Cadoret, just after passing a narrow creek, almost dry at low water, there is a convenient place on the rocks to heave a vessel down to careen, where the French ships, Olivier and Philomèle, were hove down, and the rocks prepared for the rigging and a capstan. The soil here is said to be wet and spongy, being composed principally of decayed vegetable matter, and covered with the dwarf pine, indigenous to the country, which does not attain any great dimensions, the largest tree being not more than 14 feet in diameter, and the wood, when full grown, of but little value.

The shores of Croo Harbour are bold-to. A frigate can tack in, but great attention must be paid to veer in good time, as, under the land, the wind is uncertain, and frequently takes aback at the moment of tacking, particularly when it is from the N.W. and in squalls.

In leaving Groc Harbour, and proceeding to the northward, after passing Point Groux, two black rocks are seen close to the shore, named the Ravens. Hence to Irish Island, a black barren rock, very abrupt, the land runs E. by N. 4 N. 24 miles, and thence towards the N.E.W the south-west point of St. Julien Island, at the entrance of the harbour of that name.

The harbours of Great and Little St. Julien and also that of Grandsway are all adjacent to the Island of St. Julien, and bear to the north-westward of the northern part of the Island of Greats. The south-west end of the Island of St. Julien is but little separated from the main, and cannot be distinguished to be an island, until you arrive very near it; there is at this end no passage, except for beats; therefore, to sail into either of these harbours, you may keep close to the north-east end of the island; and in passing that, the harbours will open to your view.

Great St. Julien is the easternmost harbour, to which there is no danger until you get within the entrance, when you will find the starboard shore to be shoal, nearly one third over; but when you have passed the first stages, you may anchor in from 8 to 4 fathoms water.

To sail into Little St. Julien, you will first steer for Great St. Julien Harbour, in order to clear a sunken rock, which lies directly before the harbour's mouth; and having arrived opposite the entrance of Grandsway, steer into the harbour, and anchor in 5 or 4 fathoms water. It is necessary for all ships using either of these harbours, to moor both head and stern. Grandsway is not a harbour for shipping, although it is very convenient for fishing craft.

FISHOT ISLANDS.—The largest of the group of these islands, the southernmost, lies about 3 miles N.E. I. E. from St. Julien Island, and possesses, on its western side, a harbour of the same name. In a north-easterly direction these islands extend to the N.E. island, nearly 4 miles. The N.E. island is surrounded by sheals to some distance, but between it affit the next two islands to the southward there are passages, which, in fine weather, may be taken. These well acquainted with Fishot Harbour may approach it either from the northward or southward, but it is only fit for vessels drawing 10 or 11 feet water. There are numerous sheal rocks seattered about between Fishot Harbour and the N.E. island; but to within one-third of a mile of the eastern shores of these islands all is clear.

HARE BAY.—The entrance of this bay is about 5 miles wide, and is formed by Cape Goose on the north and Fishot Islands on the south; thence is extends to the N.W., about 6 leagues, to the Northern Arm, and is about 6 miles in width. There are several good harbours within it, but they are not much frequented. The south side of the bay is bordered by rocks and ialets; the northernmost and mest remarkable are the Spring and Brent Islands. The Spring, Islands lie on the south side, of miles within the entrance of the bay, and the Brent Islands, lie 4 miles farther. The Southern Arm runs in about S.W. by W., 5 or 6 miles from the eastern eide of the Brent Islands, where good and well-sheltered anchorage may be found in 10 or 12 fathoms; good auchorage may also be found to the westward of the couthernance of the Brent Islands. The north side of the bay is all clear and safe. How Harbour lies on this side, 114 miles from Cape Goose. How Harbour is by far the best in Hare Bay, and has asfe anchorage in every part; The entrance to it lies 114 miles N.W. from Cape Goose, and N.E. by N. 34 miles from the eastern part of the Brent Islands. To the northward a range of markers and ponds extends as far as Pistolet Bay. The harbour is about 14 miles long, and

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nearly half a mile wide. Off its western point a small rock lies, but it is very near to the land. The upper part of the harbour shoals gradually, but in the middle of the harbour are 10 fathoms.

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Goose Harbour lies on the western side of Cape Goose. It is small, but very scoure, and possesses excellent anchorage in 4 and 5 fathoms. Vousele can sail in with a westerly wind; and rings are fixed, to assist vessels warping in with a contrary wind. Vessele generally moor head and stern in this harbour. Cape Googe is one of the most remarkable points on this coast, and is visible at a great distance. It lies in latitude 54° 17' 20" N., and in certain positions it appears like an island. There are three remarkable mountains near Cape Goose; and further in the interior are the Capillaire Mountains, which are of a great height.

Gremallire Harbour lies about 2 miles northward of Cape Goose, and is spacious and good, having excellent anchorage in 7 or 6 fathoms water. It is supplied with abundance of wood and water, and is a good harbour for men of war to put into. Between Notre Dame Island and the port side of the entrance there is a shoal in coming from the southward, which may be easily avoided by keeping near mid-channel. ST. ANTHONY HARBOUR .- To the eastward of Oremallire Bay lies St. Anthony Harbour, which is a safe place, having good anchorage in 6 or 7 fathoms water, on a bottom of blue elay. Its entrance lies N.W. by W. 14 miles from Cape St, Anthony, and cannot easily be mistaken, from the remarkable high land on its southern shore. and being the first opening on the port side as you enter the large bay within St. Anthony Peint. This bay runs in north, 8 miles, and has 25 to 35 fathems in it, and is quite open to south and S.E. winds. St. Anthony Harbour is well supplied with wood and water, and is commonly frequented by French fishing vessels. Cape St. Anthony lice in lat. 519 22 N., and long. 559 38 W. French Point, which lice 14

miles to the eastward, has occasionally been mistaken for the case. Which lies 14 miles to the eastward, has occasionally been mistaken for the case. Braha Baylies 8 miles merth eastward of French Point, and is small but safe, having good abchorage within it. The bottom is angly, and the shores are hold and steep-to. It generally has a few French vessels in it during the fishing season. The Braha Shoal lies 8, 74° E: (true), distant 14 miles from the Needle Books, and 18 feet are reported to be on it, but Lieut. Bullock mys that he never found less than 16 feet. Breaker are occasioned by the with a little may that he never found less that 16 feet. ioned by it with a little sea; but the common current will always Breakers are os breakers are constant ripple. This is the most dangerous rock hereabout. Between it and the shore there is a good passage with 22 fathems just within the rock, and 47 fathems near mid-obannel.

ST: LUNAIRE.—At the southern point of the entrance of St. Lunaire lis two islands, between which there is but a nerrow beat passage. The only channel for ships is to the northward of them, and is almost half a mile wide, with both shores bold-to. Having entered between the points of the bay, yeu will perseive some small reaky islets shead of you, on either side of which there is a passage, but none between, for they are connected by a rocky reef of shallow water : you will, therefore, store to the morthward of them all. On the northern shores you will see Amelia Harbour, where, within Red Island, you may anches in 16 fathoms of farither in, and mearer the head of the bay, in less water. The starboard side of this bay is rocky, and it is sheltered from the westward by some high islands, but toward the top of the bay is a sainly beach, where some small brooks empty themselves. "To the northward of High Island there is a sandy cove, having some little islets within it; but the depth is shallow, and there is a mother some strang the land on both adda rather high, and the passage into it diar of danger; but its farther on becomes underly very shallow. There is also another mercer extranse to the N.W. Bay, behind a high island, which forms its conthern shores but is is only for books is only for boats. Between its is not had at the bay in the first is a wide spece, which first is is only for boats. Between it is is high island and the two islands at the entrance of Lunaire Bay, is 's a wide spece, with very good anchorage, in 10, 16, or 30 fathoms ST. LUNAIRE At the southern point of the entrance of St. Lunaire lis two

It only by books between the might send and anotherage; in 10, 18, or 20 fathoms Lumate Bay, its a wide sease; with very good anchorage; in 10, 18, or 20 fathoms man, where versis may he search from conth castory gales, but in going to it yes must would a reak of only 10 feet water, which lies to the westward of Plate Island, about a quarter of a mile and exactly the same distance from the eastern point of the high island forming the southern boundary to N.W. Bay. There is also an opting to the southward, named S.W. Bay, which has not yet been surveyed, but its entrance appears to be clear of dangey, and has a depth of 9, 6, and 7 fathoms ; the shows on noh side are rocky treated TING MALLAN ALTERST. 1 W. MART LILL

Lieut. Bullock says of St. Lunairo Bay :- "This excellent harbour will contain 100, vessels in perfect safety; is remarkably easy of access, and may always be recognized by the appearance of the White Cape. The best and most convenient anehorage will be found at Amelia Cove, in from 5 to 7 tethoms. The approach and entrance are hold and steep-to, only observing to give the points of the southern islands a good berth. Both wood and water are to be obtained without difficulty; and it affords, in every respect, a good and secure anchorage."

in every respect, a good and secure anchorage." GBIGUET BAY is formed by Stormy Cape to the northward, and White Cape to the southward, having several good cores or harbours for shipping engaged in the fisheries. In this bay lies Camel's Island, rising up in the middle like the hump of a camel, and scarcely to be distinguished from the main land in sailing along. Behind this island is situated the S.W. Harbour, a narrow channel, running in nearly 2 miles, with from 4 to 10 fathoms water in it; there is a shoal at its entrance.

The North-Harbour runs in within Stormy Cape; and has, at its entrance, a rock above water, which is bold-to all round, and vessels may sail on either side of it, and suchor in 6 fathoms water.

In the passage which leads to the N.W. and S.W. Harbours there is an island, which contracts the obannel, rendering the passages narrow; the best and safest entrance is to the northward of this island, giving the outer point of the N.W. Harbours a small berth, and so soon as you get within the island, you will open both harbours; that which runs in north-westward is the larger of the two, and is 2 miles deep; you should sail up on its western side, having 14, 16, and 18 fathems, until you get inside the point, a little within which is a hank of 7 or 8 fathoms, but when you have passed over this, you will leasen your water to 7, 6, and 5 fathoms, everywhere good anchorage, and welf sheltered from all winds. The two islands of Griguet lie outside of Camel's Island, and, together form between them several small but saug harbours for fabing vessels.

List. Bullock observes:--"The north bay is insecure in spring and fall, on account of its being exposed to southerly gales; the S.W. bay is, therefore, recommended, where there is good anchorage in 5 or 6 fathoms water. Camel Island's Harbour will always be found too intricate for a stranger, and should haver be attempted without the assistance of a pilot." WHITE ISLANDS.-The White Islands lie to the north-eastward of Stormy Cape.

white ISLANDS.—The White Islands lie to the north-eastward of.Stormy Cape, from which they are distant one league, and about 2 miles from the shore opposite ; they are small, of moderate height, and have several rocks inside, both above and under water; but these are not considered to be dangerous, as they are easily discoverable even in fine weather, and the passage between them and the main is very safe, having a depth of 40 fathoms in it.

QUIRPON ISLAND....This lies off the north-eastern part of Newfoundland, and forms the S.E. point of entrance to the Strait of Belle Isle: it is large, high, and barren, and Cape Degrat is visible, in clear weather, full 12 leagues to seaward. There is a nerrow channel which runs in to the southward of Quirpon, and divides it from the main, in which lies Little Quirpon Harbour. To enter it there is an danger but what you will easily perceive. Vessels commonly moor beed and starn, and lie there perfectly secure.

Degrat and Pigson Coves lie on the eastern side of Quirpon Island, and to the northward of Cape Degrat; at their entrance are several small rocky islets and rocks above water, affording behind them very fair security for shipping, in 4 fathouts water, and good conveniences for flahing.

Cape Bauld, the northern extremity of Quirpon Island, lies in lat. 51° 39' N. and in long. 55' 38' W. It is rosky and steep to, and may be approached very near with great safety. Having rounded this cape, you will perceive a rocky point to the southward leading to the harbour of Quirpon.

. Great Quirpon Harbour lies on the N.W. side of the island, and its entrance is between it and Graves Island. In your approach towards it from the northward you may berrow as close as you please to Bauld Head, there being no invisible danger until you arrive at the entrance to the harbour, where there are some sheals which mass belf on your port side : to do this, keep Black Head, on Quirpon Island, open of all the other land, antil Haven Point aomes over Noddy Point, them haul is for the barbour, going not nearer than the distance of half a cable's length from the point of

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ittle inlets ing before he land on arther and the N.W. rocky, and to the N.W. rocky, and to fathems y to is prome lannd, me inlend opening wontensoo above on Graves Island. The anchorage within the island is everywhere good, with room and depth enough for any ships, and the ground holds well.

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The best place to ride in will be towards the upper end of Graves Island, abreast of Green Island, in 7 fathoms water. The passage to the Inner Harbour, on either side of Green Island, is very good for ships of a moderate draught of water, through which you will have 8 fathoms, and above Green Island you have excellent riding in 7 fathoms. There is also a passage to this harbour through Little Quirpon Harbour, but it is too narrow and intricate for any one to attempt, unless they are perfectly acquainted with the navigation. In and about Quirpon are conveniences for a great number of vessels employed in the fasheries, and good fishing throughouts the land everywhere is high and wears a barren appearance.

everywhele is high and wears a barren appearance. NODDY HARBOUR lies a little to the westward of Quirpon Harbour, and runs in between Noddy Point and Cape Raven: There is no danger in entering, and you will pass to the starboard of the little island that lies about a mile within the entrance, and anchor before it in 5 fathons water; on you may, with a small vessel, run father np into the basin, and anchor in 24 or 3 fathoms. There is a stage within the tsland; and on the eastern side of the harbour, with convenient room for many vessels.

The Gull Rock lies W.N.W. 1 W. from Bauld Cape, in the Island of Quirpon, distant 2 miles; and N.N.E. nearly 2 miles from Cape Rayon; it is siways above water. Maria's Ledge lies nearly S.W. from the Gull Book, distant 11 miles, and north, about a mile from Cape Rayon, being distant about a mile from Maria's Head.

In standing in from the northward, for either Quirpon or Noddy Harbours, you need not fear any danger from the Gull or Maria Rooks, for both are above water; the passage between them is half a league wide, and vory safe, it will, however, be prudent to pass near the Gull Rock, because of the N.W. Ledge, which never appears but in bad weather; this N.W. Ledge bears West a little south, distant 14 miles from the Gull Rock, and you should not attempt the passage between it and the main, on account of other rocks that are said to lie about, and places of shallow water.

SACRED ISLANDS.—Great Sacred Island lies about N.W. by W. ‡ W. from Bauld Cape, distant 54 miles, and S.E. by E. ‡ E. from Cape Norman, nearly 12 miles. Little Sacred Island is one mile to the south astward of the Great Island; the passage between them is safe, and you may sail round both, for they are high and bold; within them, on the main, and to the W.S. Westward, is Sacred Bay; tolerably large, with numerous rocky islets within it : the shores of this place abound with wood, and, therefore, it is much resorted to for the use of fisheries at Quirpon and Griguet, de.

Cape Onion forms the north point of Sacred Bay, being high and steep; near it is a remarkable rock, named the Mewstone; and much resembling that in Plymouth Sound. There is a little cove to the southward of this rock, where a vessel may occasionally resort to with safety. From Cape Onion to Burnt Cape the course is W. 4 N. about 44 miles. Burnt Cape has a white appearance, and rises from the seaward to a considerable height.

HA-HA BAY.—On the eastern side of Burnt Cape is Ha-Ha Bay, which runs in southerly about 2 miles. It lies open to northerly winds, but, when you are within the cape you will fud anchorage in 6 or 7 fathoms, or you can go farther up and ride well sheltered in 3 or 24 fathoms. This is a convenient place for the fisheries and has plenty of wood.

PISTOLET BAY.—This bay lies between Burnt Caps and the Norman Ledges, which bear from each other N.W. by N. and S.E. by S. distant 4 miles. It is extensive, and reaches several miles each way, having good anchoring ground in most parts, particularly on the western side, a little above the islands, in about 6 fathoms water; the shore is tolerably well furnished with wood, and contributes to supply those places which are desitues of that article.

Cook's Harbour, in the N.W. part of Pistolet Bay, and within the islands, is about 9 miles above Norman Ledge Point. These ledges are about 1 mile to the eastward of the north point. To clear these dangers as you enter, be sure to keep Burnt Cape well open of the outer rocks, that his off the islands at the western entrance to Pistolet Harbour, and if going in, so soon as you consider yourself to be to the southward of these ledges, steer in for the harbour, leaving the islands and rocks on your port side;

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keep the southern shore on board, for fear of a ledge of rocks that juts duit from a little rocky island on the other side; and so soon as you get within the island, haul over for the northern shore, and anohor in 4 or 0 fathoms water. This harbour might be made very convenient, with several fishing rooms; and proper stages, to which the boats might resort and oure their fish, might be erected in all the coves between it and Cape Norman.

BELLE ISLE lies at the entrance of the strait of the same name, and should be named the Northern Belle Isle, to distinguish it from those we have already described, lying to the southward. It is about 94 miles long and 44 broad, being distant from Bauld Head in Quirpon Island about 14 miles, and from the coast of Labrador 12 miles; it is moderately high, and wears an uniform storile appearance. On its northwestern coast there is a small harbour named Lark Cove or Harbour, lying within an island almost close to the land, and fit only for small craft; and at the eastern aide of the island is another cove named Battleaux Greek, frequented cocasionally by shallops. About two miles to the north-eastward of this island lies a ledge of rocks, part of which appear above water, and over these the sea breaks very high; this is named the N.E. Ledge, and you will have 16 and 20 fathoms close to it, and 55 between it and the north part of the island. The soundings about, Belle Ide are very irregular; near the island you will seldom find less than 20 fathoms, except on small bank, said to lie to the northward, distant 4 miles from its northern part, whereon are only 5 fathoms. The northern part of this island is said to lie in about the latitude from York Point, and N.E. 1 N., 14 miles from Cape Bauld, in Quirpon Island. **CAPE WORKAW** is the northernmost point of Newfoundland, and is of a

moderate even height, and very barren appearance, which continues far inland. It is about a league to the north-westward of the ledges from Cape Norman that the shores of Newfoundland turn south-westerly, and will be hereafter described.

SOUTH COAST OF NEWFOUNDLAND.

FROM CAPE BACE TO CAPE CHAPEAU BOUGE.

CAPE RACE, the south-east extremity of Newfoundland, is, as before mentioned, a table land af moderate height. A black rock lies near to it, and several smaller ones around it. E.S.E. from the cape, and to the southward of Cape Ballard, lies a fishing-bank, named New Bank, about 5 miles long and nearly 2 miles broad; on it are from 17 to 25 fathoms water, with very deep water on its outside, and 50 fathoms just within it. Vessels making this part of the coast may know their approach toward the land, by, suddenly lessening their water to the above depths.

From Cape Race the land trends 61 miles westerly to Mistaken Point, off which is a rock above water. From Mistaken Point, the coast runs N.W. by W. a distance of 2 miles to Freuch Mistaken Point, off which is also a rock. Thereafter the coast trends N. by W. into Biscay and Mutton Bays, which are seldom frequented; it is considered dangerous to get embayed there, as the sea generally drives in, and there are hardly any currents to help you out again. Mutton Bay lies between Cape Mutton and Cape Howles, and is about 3 miles deep, with 13 to 3 fathoms, rocky bottom. The N.W. part of Mutton Bay is separated from Trepassey Harbour by a low, narrow, stony beach, over which the vessels in Trepassey Harbour can be seen. At the extremity of this neck of land is Cape Powles, which forms the east point of the entrance into Trepassey Harbour. TREPASSEY HARBOUR.—The entrance to this harbour is about three quarters

of a mile wide, and runs nearly of the same breadth for 24 miles when it narrows to one quarter of a mile, but again increases to three quarters of a mile where the shipe ride. Shipe intending to enter this harbour generally steer from Mistakes Point towards Cape Pine, until they fairly open the harbour; they may then safely run along shore as it is bold. The dangers in sailing into the harbour are, a small rock on the eastern shore, about a mile within the Powles Head, and about she third of a

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cable's length from the shore; and on the west side, a shoal which runs along shore up the harbour to a low green point. Bekar's Point on with a low rocky point at the entrance of the harbour, will carry you plear of this shoal. When you are nearly up with the low green point you may steer more to the westward, and anchor either in the N.W. or N.E. arm in 5 or 6 methods. Wood and water can be obtained here with facility. ún

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From Cape Powles to Cape Pins, the bearing and distance are S.W. by W. 5 miles. Cape Pine is moderately high and barren. A tower, 50 feet high, and painted with bands of red and white alternately, has been rescted on Cape Pine, from which a brilliant revolving light is exhibited, appearing in its greatest brilliancy every half minute. The light is elevated 803 feet above the level of the sea, and is visible to seaward in clear weather at a distance of 32 miles. Lat. 46° 37' 12" N., and long. 53° 33' 37" W.

From Cape Pine to Cape Freels the bearing and distance are West, 1¹/₂ miles; and from Cape Freels to Black Head, W.N.W., a mile; the coast, thereafter, trends N.W. ¹/₂ W., one mile, to the eastern reef and head of St. Shet's Bay, which bay is about a mile deep, but entirely open to the sea, and very daugerous. From the eastern to the western head the bearing and distance are N. by W. 3 miles.

ST. MANYS BAY. The eastern head of St. Shot's may be considered the east point of St. Mary's Bay, while Point Lance forms the west point ; these bear from each other N.W. by N. and S.E. by S., distant about '90 miles. The bay rune up 9 leagues, the land on each side being moderately high. From the western head of St. Shot's to Gull Island, the bearing and distance are N. ; E. 4 miles. Gull Island is small, and hes close to the land. From Gull Island to Cape English the course and distance are N. by E. 1 E. 44 miles. Cape English is high table hind, terminating in a low rocky point, forming a bay, about a mile deep, to the sonthward of it: at the bottom of this bay is a low stony beach, within which is Holyrood Pond, running to the E.N.E. about 6 leagues; this being within the cape gives it the appearance of an island, when you are to the southward of it. From Cape English to False Cape the bearing and distance are N.E. 1 N. 11 miles ; and from Cape English to Point la Haye the bearing and distance are E.N.E. 61 miles. Point la Haye is low, and has a ledge of rocks extending from it a quarter of a mile into the sea, and a mile along the shore, on which the sea breaks in bad weather. This is the only danger in the bay, and must be avoided.

From Point la Haye to Double Road Point the bearing and distance are E.N.E. 13 miles. The land between is low and bears a barren appearance. Double Road Point is the southern extreme of St. Mary's Harbour.

ST. MARYS HARBOUR.—The entrance to this harbour is above a mile wide, formed by Double Road Point on the south side, and Ellis Points on the north : within these points the channel divides into two branches, one to the S.E., into St. Mary's Harbour, the other to the K.N.E., into what is named Mal Bay. When you are within Ellis Point haul in to the southward, and anohor abreast of the stages and houses, upon a flat, in 4 or 0 fathoms, where you will lie land-locked. This flat runs off abont half a mile from the shore, and without it are from 16 to 40 fathoms over to the other side ; but the best anohorage is about 2 miles above the town, where it is above half a mile wide, opposite Brown's Pond, which may be seen over the low beach on the starboard hand : here you will lie land-locked in 12 fathoms water, and excellent ground all the way up to the head of the hay.

way up to the head of the bay. MEAL BAY, on the E.N.E. branch, is about a mile wide, and about 2 miles days, but there is no good anchorage, a heavy ewell generally setting into it. The coast from Trepsen Point trends N.N.E. i N., above 3 miles, to Shoal Bay, opposite to the northern point of which lies Great Collinet Island, which is about a league in length and 14 miles broad; ou either side of it there is a safe channel, taking care to give Shoal Bay Point, which lies a mile distant from the east end of Great Collinet, a berth of a quarter of a mile, to avoid some rocks which lie of that point. On the northern side of the island is a stony beach, off which lies a bank for about a quarter of a mile, on which are from 7 to 18 fathoms, rocky bottom. Little Collinet Island is distant 2 miles north-eastward from Great Collinet, and is above one mile long and half a mile broad; it is surrounded by deep water.

bread : it is surrounded by deep water. GBEAT SALMON RIVER.—The entrance of this river, lying 4 miles E. by N., from the northern part of Little Gollinet Island, is about three-quasters of a mile wide,

and runs E.N.E. about 7 miles. Mittle Harbour is an opening about 8 miles up this fiver, on its southern shore, opposite to which, in a small cove, is the best anohorage in the river, although it is generally good throughout : here you may ride in safety in fore 6 fathoms water. As you advance up the river it becomes narrow, and towards its farther end becomes way shallow.

Its farther and becomes very shallow. COLLINET BAY.—The month of Collinet Bay lies N.E. 1 E., 31 miles, from the neith point of Little Collinet Island. This bay rups in N.E. by N. about 3 miles, where the point of an island on the starboard side narrows the passage; it then widens signin towards the top, where there is a sandy shallow beech. The anchorage is good throughout the whole of this bay. Below the narrows yod will have from 12 to 6 fathoms water; there are 7 and 6 fathoms in passing the narrows, and above it 6, 5, and 4 fathoms, all good ground. There is a core between Salmon River and Collinet Bay, which is 11 miles deep, and has from 13 to 4 fathoms in it; but as it is exposed to the S.W., it is not much resorted to...

The chtrance to North Harbour lies W.S.W. 4 miles from Collinet Bay, and is about three-quarters of a mile wide, and runs up to the northward 3 miles. In it is very good anchorage, in about 5 or 6 fathoms water, about 2 miles within the entrance, where it is not above half a mile wide; or you may run farther up, where two saudy points stretch out; being half a cable's length asunder: keep the starboard point on board, and anchor close within the starboard side. In entering North Harbour, always keep mid-channel; for the castern side is penewhat thallow.

Between North Harbour and Point Latice the coast trends W.S.W. 1 S., between which are one or two coves, but no piace fit for shipping. Point Lance is situated in lat. 40° 49' and is a low rugged point; though the interior country is comiderably elevated. From Point Lance to Cape St. Mary the bearing and distance are N.W. 1 W., about 64 miles.

CAPE ST. MARY .- This cape is the east point of entrance into Placentia Bay. It is a pretty high bluff point; appearing somewhat like Cape St. Vincent on the coust of Portugal. At the distance of full two miles; W. by S. from Cape Lance, lie the Buff and Cow Rocks, which are two flat rocks, lying very near each other, and having many small rocks about them. There is another rock, appearing at half-tide, about a similar distance, but nearer the main, between which and the shore are 10 fathoms, and between it and the Bull and Cow Rocks 15 fathoms. In a similar direction to the Bull and Cow Recks from Cape Lance, but at 3 leagues distant, and nearly S.S.W., distant 7 miles from Cape St. Mary, are two other little rocks, appearing just above the surface of the water, and having the sea constantly breaking over them; they lie S.S.E. and N.N.W. from each other, distant 3 cables length, and have 15 fathoms between them and the same depth of water all round them, excepting towards the S.S.E., where, at 2 cables length off, only 6 fathoms will be found. There are 30, 25, and 19 fathoms between these rocks and Cape St. Mury, and near the same are 18, 14, and 15 fathoms. Vessels, therefore, may proceed between them, and also between the Bull and Oow Rocks and the main, if necessary, for there is no hidden danger; but perhaps it will always be more prudent to go to the southward of both.

PROUNTED BAY. The entrance into Placentia Bay is formed by Cape Ohspeau Rouge on the west side, and Cape St. Mary on the east side, which bear B.S.E. and W.N.W. from each other, distant about 104 leagues.

Cape Obspeau Rouge in lat 46° 54' is the highest and most remarkable hand on this part of the coast: it appears above the rest somewhat like the crown of a hat hence its name; and in clear weather may be seen 11 or 12 leagues to sesward. The direction from Cape St. Mary to Point Breme is N. by E. about 9 miles, and from Point Breme to the Virgin Rocks, it is N.E. by N. distance 13 miles. These rocks appear above water, and lie about 14 miles from the main. A little to the southward of them there are some whitish cliffs in the land, by which that part of the focast may be distinguished, on falling in with it in thick weather. The Girdle Rock lies S.S.W. from the Virgin Rocks, distant about one mile.

From the Virgin Rocks to Point Verde, the course is N.E. by E. J.E., distance of miles. Point Verde is the south point of the entrance into the Road of Plasentia, the first place of shelter for shipping on the stathcard shore of Placentia Hay. PLACENTIA HARBOUR. Point Verde is a low level groom point, with a pebble back on the olds side, nearly half smills long, with several fishing single just within

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it. At the end of this beach is a high rocky cliff, that extends to the S.E. corner of the bay, where it again terminates in a pebble beach. This beach runs E.N.E. one mile to the Fort Point: on the inside of it stands the town of Placentla, facing the S.E. arm of the harbour. A little to the southward of the town is a high hill, with a remarkable cliff in the middle of the beach. The outer point on the north side is level, with a olay cliff on the outer part. It bears from Point Verde N.E. by N. nearly, distant 14 miles: from this point the land forms a small bay, with a stony beach round it, to the corner of the oliff under Signal Hill, this being the first hill on the north side of the road from this point. The cliff continues to Freehwater Bay, which is formed in a small valley between Signal Hill on the west, and Castle Hill on the eash; with a pebble beach round it. A small rivulet runs down this valley, where

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To sail into the road coming from the southward, keep one league from the shore, in order to avoid the Gibraltar Rock, which lies W.S.W. from Point Verde, about 24 miles, with 8 feet water on it. Near the bottom of Placentia Road, on the north shore at the top of a hill, stand the ruins of a castle, distinguishable far out at sea. So soon as the castle comes open to the northward of Point Verde, you may haul in for the castle, taking care to give Point Verde a berth of nearly 2 cables length; and by keeping your lead going, you may borrow on the flat, which lies on the south shore, into the depth of 4 fathoms; the soundings throughout are gradual. The best anchorage in the road is under the Castle Hill, in about 6 fathoms water. There is a long beach at the bottom of the road, which terminates in a point to the northward, on which stand some houses and an old fortress; there is also a fort on the opposite point. The entrance into the harbour is between these, and is very narrow, being not more than 60 fathoms sizes, and the tide into it runs more than four knots an hour. In the entrance you have 34 fathoms water; after you are within the narrows, it is about one-third of a mile broad, and about 14 miles long: here you may anchor in perfect safety, in 6 or 7 fathoms water. The tide rises 6 or 7 feet; and it is high

The only dangers near Placentia are the Virgin Rocks and Gibraltar Rock, on the sonth, and Moll Rock on the north.

The Moll Rock bears from Point Verde N.E. 1 E., distant 2 miles, and N.N.W. from Moll Point, three-quarters of a mile. There are only 12 feet of water on this rock, with 10 fathoms around it.

From. Point Verde to Point Latina the bearing and distance are N.E. by N. 52 miles. At the distance of a mile S.W. from Point Latina is the Wolf Rock, which lies about half a mile from the main, and between Placentia Harbour and Point Latina, and, therefore, must have a good berth in passing. The shore all the way is low near the sea, but high and regged inland. Point Roche is about a mile to the eastward of Point Latina, and has a shoal off it, extending a quarter of a mile out.

LITTLE PLACENTIA HARBOUR. — This harbour runs in to the southward from Point Roche; and S.E. by E. & E. from Point Roche, distant 2 miles, is the opposite, or Fox's Point, which may be considered to be the eastern entrance to Placentia Sound. The harbour of Little Placentia lies on the western side of this sound, and extends W. by S., about 14 miles, and is nearly half a mile broad.

There is excellent anchorage in this harbour, in a cove on the north shore; this cove may be known by the west point being woody, and the land to the eastward being barren. Off the east point of the cove lies a shoal for nearly one-third of the distance over to the south side of the harbour; in this cove are 7 and 8 fathoms water.

Placentia Sound is an arm which runs in nearly a league to the eastward; it has deep water, but is little frequented. Fox's Harbour is a small sandy cove, fit only for boats.

From Point Latina to Ship Harbour, the course is E., distance 52 miles; this harbour runs up northerly 23 miles, and is about half a mile broad. The best anchorage is in a core on the west side, in about 10 fathoms water, at about a mile from the entrance.

For Island is small and round, and lies N.E. 1 N. one league from Point Latins, and N.W. by W. the same distance from Ship Harbour. Point a low stony point, about 11 miles to the westward of Ship Harbour. Between Fox Island and Ship

Harbour Point is a range of rocks, which in bad weather break almost across; between the rocks are 24, 6, 7, and 10 fathoms water. N.N.W., 24 miles, from Fox Island, is a steep rock above water, named Fishing Rock; and N.N.E., 14 miles from Fishing Book, lies a sunken rock, named Bowland's Book, which almost always breaks.

THE RAM ISLANDS .- These are a cluster of high islands, lying about 8 miles to the N.E. # E. of Fox Island. Long Harbour lies on the eastern side of these islands, and there is not the least danger in sailing into it. The best anchorage is on the northern side, to the eastward of Harbour Island, between it and the main, where you will lie secure from all winds in 6 or 7 fathoms water.

The shore from Long Harbour runs N.N.E., N. by E., and North, a distance of fully 15 miles, in which space there is not the least shelter for vessels, nor scarcely for boats, until you reach Little Harbour, Little South Harbour, and Great South Harbour. There are said to be several low islands and rocks within this space: one of which, named the White Rock, from being covered with the dung of birds, lies N.E. by N. from Point Latina, distant 18 miles, and directly midway between Fox Island and Little Harbour, It is situated abreast of a small place, named Tinny Cove, and fully 2 miles off the land : vessels pass on either side. Little Harbour is small, with 7 fathoms water; the ground is bad, and lies entirely

exposed to the S.W. wind, which heaves in a very great sea.

LITTLE SOUTH HARBOUR lies one mile to the north-westward of Little Harbour, and has before its entrance several rocky islands. In sailing into the harbour, you must leave these islands on your starboard hand, except one, on either side of which is a safe passage of 15 fathoms water. On the southern shore, within the islands, is a sunken rock, about one cable's length from the shore, which generally breaks ; nearly opposite are also some rocks, about a cable's length from the shore, that show at halfebb. This harbour is about 14 miles long, and half a mile wide, with 7 fathoms water, good bottom. GREAT SOUTH HARBOUR lies about a mile to the northward of Little South

Harbour. There is no danger in sailing into it ; and near the head is very good anchorage in 6 and 7 fathoms water. To the westward of Great South Harbour is Isle an Bordeaux, a high round island near the main.

COME-BY-CHANCE HARBOUR .- The entrance into Come-by-Chance Harbour lies N.N.E. '4 miles from Isle au Bordeaux, and runs up N.E. by E. 8 miles. In it are from 20 to 8 fathoms water, sandy bottom; but it is entirely exposed to the S.W. wind, which heaves in a very great swell.

NORTH HARBOUR .- The entrance of this harbour lies about 8 miles N.N.W. from the entrance of Come-by-Chance. About two miles from the entrance there is good anchorage in 7 fathoms water, and no danger in sailing in.

PIPER'S HOLE .- The entrance to Piper's Hole lies N.W. by N. 21 miles from the entrance to North Harbour. The channel in lies between Sound Island and the main, and in it you will have 19, 10, and 12 fathoms, and when to the northward of the island 8, 7, and 6 fathoms. From hence Piper's Hole rune up to the northward full 5 miles; but the water is shallow and unfit for shipping. Sound, Woody, and Barren Islands lie in a south-westerly direction from Piper's Hole, and between them and the north-western shore there is a channel half a mile wide, in which are from 7 to 20 north-western snore there it a commentation while, it while all from 7 to 16 fathoms, and good anchorage all the way. There is a passage with from 7 to 16 fathoms between Woody and Sound Island, but there is a much wider and deeper passage between Woody and Barren Island, in which there are 40 and 50 fathoms. There is a small core, named La Plant, opposite the northern part of Barren Island, but it is fit only for boats. Barren Island is about 34 miles in length, and one in but it is hit is high land there is a small core at its such assessment and the which breadth ; it is high land, and there is a small cove at its south-eastern part, in which tolerable anohorage may be got in from 8 to 16 fathoms. Gulsh is an unimportant inlet lying N.W. by W. from the southern part of Barren Island; and farther S.W. are Great and Little Sandy Harbours.

GREAT SANDY HARBOUR .- At the distance of 4 miles W. | S. from the south end of Barren Island lies Great Sandy Harbour, to which there is a passage between Ship Island and the main, with 7, 9, and, 17 fathoms water. The entrance into the harbour is very natrow, and is much encumbered with rocks, which are all above water, and have channels between them ; but when you get within the harbour there are 6 and 7 fathoms, and good shelter. and the state of the state and a

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LITTLE SANDY HARBOUR is one-quarter of a mile to the southward of the Great Harbour. In it you have 6 and 7 fathoms water, good bottom; but in sailing in you should pass to the northward of a low rock, which lies at the entrance.

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This harbour may be known by the island named Bell Island, which lies S.E. E. 11 miles from the mouth of it, and N.E. by N. 18 miles from the west point of Merssheen Island. Off the south point of the island is a remarkable rock ; and the island itself is said to resemble a bell with the bottom upwards-henos the name. To the S.W. by S. from Bell Island is the Burges Islands, and farther to the

southward the White Islands.

CLATISE HARBOUR .- This harbour is situated on the main within the Great Isle of Valen, and its entrance lies S.W. by W. about 5 miles from the Burgoe Islands. The shore all along from the Sandy, Harbours is steep-to, and the passage to the harbour is about three-quarters of a mile wide, with 40 and 50 fathoms water; but the cove itself is very narrow. The best anchorage is in the western branch, which is a mile long, but not a quarter of a mile broad; in it are from 10 to 17 fathoms water, good bottom. Between Great and Little Valen Islands and the main, there is also a good channel from the southward, with 20, 80, and 50 fathoms in it.

Grammer's Rocks are a cluster of low rocks, above water, lying E. by N. + N. 1+ miles from the northern and of Great Valen Island. Between Great and Little Valen Islands there is a passage, which is, however, encumbered with several rocks. MERASHEEN ISLAND. This island is high and very narrow and runs to the

N.E. by E. rather more than 6 leagues. At the south-western part is a small but very good harbour, in which are from 6 to 10 fathoms water. To sail into it, keep the starboard shore on board, in order to avoid a sunken rock ing one cable's length off a ragged rocky point on the port hand going if. A small cluster of rocks lice off the south-eastern part of Merksheen, three quarters of a mile from shore : these lic between it and Red Island. A large cluster of rocks and islands, named the Ragged Islands, lis off its northern shores.

RED ISLAND.—Red Island is high and barren, about 41 miles long, and 23 miles broad. If south point lies N.N. W. 11 miles from Placentia Road, and E, by N. 16 leagues from Mortier Head. On the east side, near the northern and, is a small harbour, which is only fit for shallops. At the distance of 7 miles, directly N.E. from Red Island, lies the main body of Long Island ; and midway between them is Woody Island, off the S.W. end of which are two small rocks above waters With the exception of these two rocks, the passage between Red and Woody Islands is clear from dangers, and nearly 8 miles wide. The channel between Woody and Long Island is 2 miles wide, and is represented to contain deep water. LONG ISLAND.-From Point Latine to the south point of Long Island, the

LONG ISLAND.—From Point Latina to the south point of Long Island; the oourse is N. ‡ E. 184 miles. Its length is nearly 9 leagues, but its breadth is ne-where much shows one mile. The southern point of the island is formed of remark-ably high steep rock; ; and off it lie Iron Island and a small rock above wate?. On the center side of Merasheen Island, at 4 miles N.W. by W. from the southern point of the island, is Indian Harbour, formed by a small island, on either side of which is a safe passage. The only autohorage is to the westward of the island; be-tween it and Merasheen, and here the ground is uncertain. Harbour Buffet lies on the case side of Long Island, about \$4 miles from the south point, and is tolerably goed: the entrance to it is narrow, but has 15 fathonis water in it. There are two arms in this harbour, one running to the westward, the other to the northward; the best anchorage is in the north arm, in fabout 15 fathonis water. This harbour may be known by the islands that he in, the entrance, and to the southward of it, and by Harbour Buffet Island, which lies E. § Sone mile from the southance. To sail into it you must pass to the northward of the islands at its mouth.

About 4 miles from the south point of Long Island, on the western side, hes Muscle Harbour. The entrance into the harbour lies between a low green point on Muscle Harbour. The entrance into the harbour new between the harbour is if miles your starboard hand, and a small island on your port hand. The harbour is if miles long, and one broad, and in it are 10 to 32 fathons water, ocky bottom. Vessels in this place may ran in between Woody and Iron Islands from the south-Tong, and our aroas, and in it is to be the set of the

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to the north-castward of Long Island, called the Bread and Butter Islands, but these are always visible, and steep-to.

At the distance of 4 miles, W.N.W. 2 N., from the south-western point of Merasheen Island, lies the little harbour of Presque, in which the water is sufficiently deep, but there are so many rocks about its entrance, that access to it is rendered very difficult. The Black Rock lies 2 miles 8.W. § W. from Presque, and a quarter of a mile within this rock there is a sunken rock. The Island of Marticot lies 2 miles west from the Black Rock, and is about a mile in length, and half a mile broad. The harbours of La Perche and Little and Great Paradise-lie within the Black Rock and Marticot Island.

LA PERCHE runs in to the northward of the Black Rock. There is no safe anchorage in it, the ground being bad, and the harbour itself lying entirely exposed to the south-east winds. To the northward of the east point of Marticot Island and to the westward of La Perche lies Little Paradise, in which the only safe anchorage is in a cove, at the head of the harbour, on the port side, where you may moor to the shore, and lie land-locked. The harbour of Great Paradise is only fit for heats, and lies to the westward of Little Paradise. Between Marinoot and the main is Fok Island: there is a safe passage for vessels between these islands, with not less than 9 fathoms water, but there is no passage between Fox Island and the main.

PARADISE SOUND .- About a mile to the westward of Fox latind, is the entrance to Paradise Sound, which runs up N.E. by E. the bagues, and is about a mile broad. There is very deep water in it, but until you get near its head, there is no safe anohorage. Just within the entrance on the cast side is a cove, in which there are 10 fathoms, and several rocks above water, but it is not safe to anohor, the bottom being rocky. There is a sunken rock, which must be avoided, in passing to the north-westward of Fox Island. Long Island lies to the south westward of Paradise Sound, and runs W.S.W. 1 S. about 81 miles : it is, for the most part, high land, making in several peaks:

Petit Fort Harbour lies at the distance of a mile to the westward of Paradise Sound. It is a very good harbour, having in it from 14 to 7 fathoms water, good bottom. The entrance is rather more than a quarter of a mile wide, and lies N.E. 5 miles from the south point of Long Island, and N. by E. 23 miles from the north point of Long Island. There is not the least danger in sailing into this harbour: the best anchorage is on the starboard side. The S.E. winds heave in a great swell on the

west shore when they blow hard. About 14 miles to the westward of Petit Fort Harbour lies Nonsuch Harbour, about the mouth of which there are several islands, but no safe anohorage till you get within all of them.

all of them. Cape Roger Harbour, lies at the distance of 14 miles to the westward of Nonsuch Harbour, and close to the westward of Cape Roger, a high round barren head, lying N. J. E. Sp miles from the south point of Long Island. There are several low rocks and islands lying off the east point of the entrance. In the harbour, at a quarter of a mile within the entrance on the west side, there is a small island having to the morthward, between it and the main, very good anchorage in 7 or 8 fathours water ; or you may run father up, and anchor in 8 or 7 fathours. Two miles N.N.W. from the south point of Long Island, lies a small islet named Green Island, with a sheal all round it, to nearly a cable's length. GREAT GALLOWS HARBOUR.—From Green Island, N.N.W. 24 miles, lies of this island into Great Gallows Harbour, which lies one mile to the E.N.E. of the

of this faland into Great Gallows Harbour, which liss one mile to the E.N.E. of the island. In this harbour is exceedingly good anchorage in 7 fathoms water, on the starboard side, just within a low stony point, taking care to give the point a small berth, in order to avoid a rock covered at high water.

Little Gallows Harbour lies close round to the eastward of Great Gallows Harbour, and is only fit for small vessels, which must lie moored to the shore, above a rock which is above water, on the port hand. A narrow neek of land only divides the two harbours. Little Gallows Harbour Island lise before the mouth of the harbour.

Little Harbour is the first harbour to the westward of Great Gallows Harbour, but it is only fit for boats. BAY DE L'EAU lies to the westward of Little Harbour, and rune in N.E. & E.

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rather more than a league. There is deep water in it all the way up, except at its head where there appears a sandy beach; here vessels may ride in 8 fathoms. Boat Harbour lies round the western point of Bay de l'Eau, off which is a rock above water. It runs up N.E. one league, and has deep water to within half a mile of the head. The coast from Boat Harbour, runs south-westward to Bane Harbour, which lies on the main and is fronted by several islands, the largest of which, named Gross Island, is high and woody and about 22 miles in length, by one in breadth Between Cross Island and the main are several other islands.

BANE HARBOUR is an exceedingly good harbour for small vessels: the passage into it is very narrow, and has in it 2 fathoms water, but when in there is sufficient room to moor in 3 fathoms, good bottom. Batween all these islands there are good ohannels, by which vessels may pass to the harbours to the northward. Rashoon lies 14 miles S. W. from Bane Harbour, but is too shallow for any vessel; and about the same distance from Rashoon is Broad Cove, lying to the north-eastward of a point of land which jats out, named Broad Cove Head. In Broad Cove there is very good anchorage, in 8 or 9 fathoms water.

RED HARBOUR is a good harbour lying at the distance of 3 miles from Broad Cove Head. In it are 17, 13, and 9 fathoms, but it is too open to the southward. At the distance of 34 miles 8.W. from Red Harbour, and situated on the main, is John-the-Bay; in your passage to which, and nearly mid-bhannel, between Flat Islands and the shore, is a cluster of small islands, with deep water all round them; and farther on, near the land, is a rock above water, on either side of which you may sail. The channel between it and the land is narrow, and has 17 fathoms; that on the cestarn or outer side, has 16, 25, and 126 fathoms, and leads directly out to Placentia Bay.

AUDIERNE ISLAND lies half a mile to the northward of Cape Judas or Middle Island, and has on its west side a tolarably good harbour. Vessels bound for this harbour may pass between Cape Judas and Audierne Island, and between Crow and Patrick's Island, two small islands lying off the S.W. point of Audierne Island. About one cable's length from Audierne Island, to the southward of the harbour, is a sunken rock; the mark for clearing it, when coming from the southward, is not to haul in for the harbour till you open a remarkable green point on the south side of the harbour. The best anchorage is on the north shore, just within a small island. A spit of rocks, covered at high water, stretches off the Green Point on the south shore.

Off the eastern point of Audierne Island is a small island, named Ford's Island, having a sunten rock on its western side at about a cable's length distant, and another on the st side; both of which almost always, break.

another on the sast side; both of which almost always break. At 14 miles W. by N. from Ford's Island lies Green Island, off which is a little rocky islet, and another off its western ends. There is deep water all round it, 11 fathoms close to the rocky islets, 70 fathoms between it and Ford's Island, 78 and 60 fathoms between it and Long Island, and still deeper water towards the Gallows Harbours.

The Saddle-back is a small island lying E.N.E. <u>1</u> E. 8<u>1</u> leagues from Corbin Head; E. by N. 16 miles from Mortier West Point; and E. by S. 8 leagues from John-the-Bay Point. This is the outermost of a great number of rocks and small islands lying between it and the main, thereby rendering this part of the coast very dangerous. There is a chain of rocks stretching 1<u>1</u> miles to the N.E. by E. from the Saddle-back.

CAPE JUDAS, or MIDDLE ISLAND, is an island about 24 miles in length, and 2 in its greatest breadth. It lies 14 miles to the north of the Saddle-back, and has on its south and a remarkable round hill, named the Cape. Between this island and the main is a cluster of islands and low rocks, with a great number of sunken rocks about them, named the Flat Islands, the innermost of which lies about a mile from the main.

At 32 miles W. from the south-eastern Flat Island, and 2 miles to the N.N.W. of John-the-Bay Point, lies John-the-Bay, in which is tolerably good anchorage in about 8 fathoms water, with sandy bottom.

From John-the-Bay Point to Mortier East Point the course is S.W. ‡ W., distant 8 miles. At 3 miles S.W. by W. from John-the-Bay Point is Bock Harbour, which is fit only for boats, on account of the infinite number of rocks in it, both above and

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under water. Between John-the-Bay Point and Rock Harbour, lie two sunken rocks, half a mile from the shore.

MORTIER BAY.—Two miles W.S.W. from Rock Harbour is the entrance into Mortier Bay. On the west side of the entrance is a small harbour, named Beanbois, in which there are only 9 feet at low water. The course into Mortier Bay is N.N.E. for short 3 miles, and in it there are from 50 to 70 fathoms water, the land on each side being high; it then rune to the westward about 2 miles, and is nearly 2 miles wide. In the S.W. corner of the bay is a river, which runs to the S.W. about 54 miles. On the east side, at about 3 miles from the entrance, is an exceedingly good harbour, named Spanish Room, in which you may auchor in from 4 to 6 fathoms water, good bottom, and he secure from all winds: There is not the least danger in sailing into this harbour, giving the low rocks above water at the entrance on the port hand a borth of one cable's length.

Oroney Point and Island lie about 2; miles from the entrance of Mortier Bay. At about 2 miles farther couthward, and about a mile westward of Mortier East Point, is Little Mortier Bay, on the west side of which, near the entrance, is a small round island, named Mortier Island, which is bold-to all round, and may be passed on either side. Close to the first point, beyond this island on the same side, is another small island, and about 2 cables' length from this island, in a line from Mortier Island, is a sunken rock, on which the sea breaks in bad weather. At the bottom of the bay, on the east side, lise Fox Cove, in which is very good anchorage, and room for one ship to moor in 9 fathoms, good holding ground ; this cove is open to the sea, from S.S.E. to S.E. The harbour of Little Mortier lies on the west side, and is a tolerable place for small yeesels, but they must moor to the shore: in the entrance you have 7 fathoms water, but only 2 in the harbour ; off the starboard point, going in, is a rock which is covered at high water.

Mortier West-Head lies 1] miles S.W. by W. from Mortier East Point, and a mile beyond it is Iron Island. At 2 leagues S.E.] E. from Iron Island, and S.W.] W. 5 leagues from Cape Judas, lies the Mortier Bank, the shoal part of which is about one league over, and has not more than 4 fathoms on it. In had weather the sea breaks very high on it.

Iron Island is a small high island. There is a rock under water off its S.W. point; at three quarters of a mile to the southward of it is Gregory's Rock; S. & W. a quarter of a mile from which is a sheal named Galloping Andrews; and S.E. by E. one mile from Iron Island is the White Horse, a sheal having 8 fathoms on it.

duarter of a mile from which is a short named Galofing Anonyme, and S.E. by E. GREAT AND LITTLE BURIN HARBOURS.-The S.E. point of Great Burin Island lies S.W., W. one league from Iron-Island; and W.N.W. 14 miles from it, is the north part of Pardy's Island. The harbours of Great and Little Burin lie on the main within these islands. Vessels bound for the harbours of Burin, may pass on either side of Iron Island; the only danger in passing to the northward being the ledge, named the Brandys, which almost always break; they lie nearly a quarter of a mile to the southward of a lew rock above water, close under the land of Mortier to the southward of a lew rock above water, close under the land of Mortier to avoid Gregory's Rock, on which are only 2 fathoms water, and which generally breaks. Vessels may pass with eafery between this rock and Iron Island, taking care to give Iron Island a borth of one cable's length.

On the main, within Pardy's Island, are two conspicuous white marks in the rocks, the northernmest of which brought on with the north part of Pardy's Island and Iron Island N.E. 3 N., will lead on the Galloping Andrews, a sheal with 5 fathous of water on it.

Great Burin Island lies N.N.E. and S.S.W.; it is 3 miles long, and high land. About a quarter of a mile from the easternmost part of Great Burin Island lies the Dodding Rock; and near the south end of the island is Gat Island, which is high and found, and lies E.N.E., about 4 miles, from Corbin Head. From Corbin Head to Shalloway Point the bearing and distance are N.E. + N. 4 miles. Between them, and nearly in the same direction, lie Corbin and Little Burin Islands, both high and round, more them a sable's langth from the shore.

and nearly in the same direction, lie Corbin and Little Burin Islands, both high and round, not more than a cable's length from the shore. Shallowsy Island lies N.N.W. & W. nearly a mile from Cat Island, and N.E. by E. a quarter of a mile from Little Burin Island: the passage into Burin Harbours, from the southward, lies to the westward of Shalloway Island.

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In sailing in, take care to give Poor Island a berth on your port hand; and when within Shalloway Island, you may anchor in safety between it and Great Burin Island, in from 13 to 18 fathoms. The best anchorage in Great Burin Harbour is in Ship Gove. The course up to it, after you are within Neek Point, which is to the westward of the Shalloway Island, is N.N.E. about 14 miles. It is about a quarter of a mile wide. In sailing up, keep the west shore on board, in order to avoid a sunken rock on the eastern shore, at about half way up, and about a cable's length from the shore. Directly off this there is a remarkable-hole in the rock, on the same side; and a gully in the land, from top to bottom, oh the western shore. Another, rock, with 24 fathoms on it, lies above a cable's length to the S.W. of Harbour Point, which is round and green, and of moderate height, joined to Great Burin Island by a low, narrow, sandy neck.

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Burin Bay is about a mile N.N.E, of Little Burin Island : it is clear, and about a mile wide every way : here ships may occanionally anchor, and lie almest land-locked. In this bay are two islands, one called Poor Island, low and barren ; the other, which is high and woody, lies to the northward, before the entrance of Burin Inlet.

BÜRIN INLET may be entered on either side of the island; it extands up 5 miles: a little within the entrance on the east side, half a cable's length from the shore, is a rock covered at three-quarters flood; and 12 miles from the entrance, near the middle, is another rock, to the westward of which is good room, and good anchorage, in from 7 to 12 fathoms. There are 15 fathoms in the entrance; and, in the middle, two miles up, 15 to 23 fathoms; and thence up to the head are from 10 to 5 fathoms.

The east passage in is between Pardy's Island and Iron Island; but is not safe without a commanding wind, between the N.N.E. and S.E.

Corbin Harbour is about a mile to the northward of Corbin Head, and is a good harbour for small ressels. At a quarter of a mile eastward from this harbour, and 2 cables' length from the shore, is a sunken rock, of 5 or 6 feet water, on which the see breaks in hed weather. Vessels bound for this harbour must also avoid a shoal of 2 fathems water, which lies E.S.E. from the south point of the entrance about half a mile. The best anchorage is in the north arm, about half a mile within the entrance, oppedite a cove on the starboard side. Sauker Head is a high hill in shape of a sugar-loss, off which, to the south-weat-

Sauker Head is a high hill in shape of a sugar-loaf off which, to the south-westward, lies a small rock, ander water, close in with the land. From Sauker Head to Cape Chapsau Rouge, the bearing and distance are West, 4 miles; between lie the harbours of Great and Little St. Lawrence.

LITTLE ST. LAWRENCE lies to the eastward of the Great St. Lawrence. To sail into it you abould keep the west shore on board, in order to avoid a sunken rock which lies a little without the point of the peninsula, which stretches off from the east side of the Harbour. The best anchorage is in 3 of 4 fathoms water, on a fine sandy bottom, above the peninsula, which shelters you from all winds; there is also ancherings without the peninsula, which shelters you from all winds; there is also open to the S.S.E. winds. In this harbour are good fishing conveniences, and plenty of wood and water.

GREAT BT. LAWRENCE.—This harbour lies close to the eastward of Cape Ohapeau Rouge. To sail into it, you should be careful with weeterly, and particularly with S.W. winds, not to come too near the Hat Mountain, in order to avoid the flurries and eddy winds under the high land." There is no danger but what lies very near the shore, and the course in is first N.N.W. till you open the upper part of the harbour, then N. W. to the head of it. The beat place for large ships to anchor is before a cove on the cast side of the harbour, a little above Blue Beach Point, which is the first point on the west side; where you may lie in 18 or 18 fathoms water on good greand, only two points open. There is also anchorage anywhere between this point and the point of Low, Beach on the same side near the head of the harbour, observing, that the ground near the west shore is not so good as the ground on the other side. Fishing vessels lie at the head of the harbour above the beach, shelts and form all winde.

GARDEN BARE, on which there are from 7 to 17 fathoms water, lice about half a mile off the entrance of Little St. Lawrence, with Blue Beach Point on with the east point of Great St. Lawrence.

CAPE CHAPEAU ROUGE TO CAPE RAY.

CAPE CHAPEAU ROUGE TO CAPE BAY.

About one mile W.S.W: from Cape Chapeau Rouge is Ferryland Head, a high rocky ialand, just separated from the main; this together with Cape Chapeau Rouge serves as excellent marks for the St. Lawrence Harbours.

Laun Bay lies W.N.W. 5 miles from Ferryland Head, and has in the bottom of it two small inlets, named Great and Little Laun: the latter, which is the easternmost, lies open to the S.W. winds, and therefore is no place for anchorage. Great Laun lies in about N.E. by N. 2 miles; it is nearly half a mile wide, and has from 14 to 3 fathoms water: in salling in, be eareful to avoid a sunken rock, which lies about a quarter of a mile off the east point. The best anchorage is on the seast side, about half a mile from the head, in 6 and 5 fathoms, tolerably good bottom, and open only to south and S. by W. winds, which cause a great swell. The head of this place is a bar harbour, where boats can ascend at half-tide, and find conveniences for fishing with both wood and water:

Leun Islands lie off the west point of Laun Bay, not far from the above ; the westernmost and outermost of them lies W.N.W., westerly, 10 miles from Ferryland Head. Nearly a quarter of a mile to the southward of this island is a rock, over which the sea breaks in very bad weather. There are other sunken rocks about these islands, but not dangerous, being very near the shore.

islands, but not dangerous, being very near the shore. Taylor's Bar about 3 miles to the westward of Laun Islands, is open to seaward. Off the tay point are some rocks, nearly s quarter of a mile from the shore.

Off the treatment are some rocks, nearly s quarter of a must not show the show. Point thanks is a low, narrow point of land, which stretches out a little to the westware avoid a bay. A rock, above water, lies off it at half a mile from the shore, manual Gauls Shag Rock, which bears from Ferryland Head W.N.W. 4 W. 6 leagues : there are 14 fathome close to the off-side of it, but some rocks on its infide.

From Point Aux Gauls Shag Rock to the Lamelin Islands, the bearing and distance are N.W. by W. a league: between is the Bay of Lamelin, which is unfit for shipping, being shallow, and having several islands and rocks about it. The river at the bottom of the bay abounds with salmon. Near the south point of the westernimost Lamelin Island is a rock birth balvar water a model a making Barb.

most Lamelin Island is a rock high above water, named Lamelin Shar Rock. From Lamelin Shag Rock to Point May, the distance is 8 miles : between lie the Lamelin Ledges, which are very dangerous, some of them being 3 miles from the land. To avoid them, in the day-time, you should not bring the Lamelin Islands to the southward of E.S.E. until Point May bears N.E. by N., when you may steer northward between Point May and Green Island with safety. By night, approach no nearer than in 30 fathoms water.

When navigating this part of the coast, it is well to observe the appearance of the land, for Ohapeau Bouge and Lann are very high and hilly close to the sea; from Laun Islands to Lamelin, the land is only moderately high; but from Lamelin to Point May, near the shore, it is low, with beaches of sand, while inland it becomes mountainons.

CR. FIRTHER. — The island of St. Pierre, lying at 11 isagues W. by N. from Cape Chapesu Rouge, is about 4 leagues in circuit, and barren in the extreme, consisting of a mass of rugged hummocks rising to a height of 400 or 500 feet directly from the sea, and destinut of treet. On coming from the westward, Galantry Head, the southeast point of the island, makes in a round hummock, and the land near it being low gives it the appearance of a small island; it may also be recognized by its fixed light, which is visible 10 miles of. The port is on the eastern side of the island, at only a nells to the north-westward of Galantry Head, and is bounded on the east by Chien or Dog Island, eastward of which are two other islands, and several rooks. The passage in, between Dog Island and St. Bierre, is very narrow, and bordered with reoks, but in mid-channel are 6, 4, 3; 5; and 6 fathoms. The harbour is small, and has from 80 to 13 feet water; but there is a har screes the suirance, with only 5 fast at low water, and 13 or 14 at high water.

The road lies on the N.W. side of Dog Island, and will admit ships of any burthen in 8, 10, or 12 fathoms water. The best anohorage is on the north side; but in general it is rocky, and append to the N.E. winds. Be cantious, in going in or out, a some sunken rocks, which he about a mile E.S.E. from Vainqueur Island, which is the environment of the islande above monitoried.

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Upon Canon Point, on the north side of the entrance to the inner harbour, in latitude 46° 46° 52° N., longitude 56° 7′ 28° W., is a lighthouse, with a fixed light, about a quarter of a mile-eastward of the town, which is kept up from the 1st May to the 15th November. With the lighthouse bearing W. by N. or W. 1 N. about two cables' length, where is anchorage in 51 and 6 fathoms. THE ISLAND OF COLOMBIER lies very near to the N.E. point of St. Pierre,

THEAISLAND OF COLOMBIER lies very near to the N.E. point of St. Pierre, and is rather high: between them is a passage one-third of a mile wide, with 12 fathoms water. On the north side of the island is a rock, named Little Colombier; and about one quarter of a mile E.N.E. from it is a sunken rock; named Basse du Colombier, with 2 fathoms on it.

GREEN ISLAND is about three-quarters of a mile in circuit, and low: it lies E.N.E. about 6 miles from St. Pierre, and nearly in the middle of the channel between it and Point May, on Newfoundland. On its south side are several rocks above and under water, extending 14 miles to the W.S.W.

LANGLEY on LITTLE MIQUELON.—Langley Island lies to the N.W. of St. Pierre, with a passage of about 3 miles wide between, free from danger. It is about 8 leagues in circuit, of a moderate and avail height, excepting at the north end, which is a low point with sand-hills; off which, on both sides, it is flat a little way; but every other part of the island is bold to. These is anchorage on the N.E. side of the island, near Seal Cove, in 5 or 6 fathoms, a little to the southward of the sand-hills, on a fine sandy bottom.

Example 7 is joined to Langley, by a long, narrow range of sand-hills, having a beach on each side. Miquelon is a leagues in length from north to south, and about 5 miles in breadth at the widest part. The middle of the island is high land, pamed the High Lands of Dunne; but down by the shore it is low, excepting Cape Miquelon, which is a lofty promontory at the northern extremity of the island. On the S.E. side of the island is the little harbour of Dunne; a bar harbour admitting fishing-shallops at half-flood, but no way calculated for shipping. Some rocks, named the Miquelon Rocks, extend off from the eastern point of the

Some rocks, named the Miquelon Rocks, extend off from the eastern point of the island, under the high land, 1 miles to the eastward; some are above and some under water; the outer bost are above water, and there are 12 fathoms water close to them; with 18 and 20 a mile off. At N.E.] E: about 41 miles from them, lies the Miquelon Bank, on which are 6 fathoms water.

The chief roadstead of the island is large and spacious; it lies towards the north oud, and on the east side of the island between Cape Miquelon and Chapsau, which is a very remarkable round mountain near the shore, off which are some sunken rooks at a short distance, but everywhere else it is clear of danger. The best anchorage is in 6 or 7 fathoms, near the bottom of the road, on fine sandy bottom, but exposed to easterly winds, which bring in a heavy see; the mark is, the signal-staff in one with the church, in such a position as to hide Soldier's Point by Chatte Point.

The Scal Rocks, two in number, are above water, and lie about 11 leagues off from the north-west side of Miguelon. The passage between them and the island is very safe, and there are 14 or 16 fathoms water within a cable's length all round them.

The islands of St. Pierre, Langley, and Miquelon, were coded to France by England, on condition that no forts should be hull on either; that no more than fifty men of regular troops should be kept there; and that they should have no military stores, or cannon capable of making a defence. During the late hostilities, these isles were annexed to the Government of Newfoundland, having been taken possession of by the British forces in May, 1798; but they have been restored to France, on the original ponditions, by the treaty of 1814.

FORTUME BAT.—Point May has a rocky islet at its point, and from thence the land turns N.N.E. towards Dantzio Cove and Point, and thence E.N.E. towards Fortune Head.

From Point May to Pass Island the bearing and distance are N. by E. 12 leagues. Between them is the entrance to Fortune Bay, which is shout 22 or 23 leagues deep, and in which are numerous bays, barbours, and islands.

The Island of Brunet lies nearly in the middle of the entrance into Fortune Bay. It is above 5 miles in length, 2 in breadth, and of moderate height; the eastern part appears, in some points of view, like islands. On its N.E. side is a bay, wherein

CAPE CHAPEAU BOUGE TO CAPE BAY.

there is tolerable anchorage for ships, in 14 or 16, fathoms water, sheltered, from southerly and westerly winds. In the bottom of the bay, at about a quarter of a mile from the shore, are some rocks, which must be avoided. Opposite to this bay, on the south-west side of the island, is a small cove, with 6 fathoms water. The islands lying off the west end of Brunet, to the southward, are named the Little Brunets, and, with Brunet, may be approached within a quarter of a mile all

The Plate Islands are three rocky islets, of a moderate height, the nearest of which lies W.R.W. one league from the west and of Great Brunet. The southermost is about 2 miles farther off, and bears from Cape Miquelon E. § S. § leagues; and in a direct line between Point May and Pase Island, 17 miles from the former, and 19 miles from the latter. E.S.E., a quarter of s mile from the Great Plate (which is the northermost) is a sunken rock, over which the sea breaks, and this is the only danger about them.

There are several strong and irregular settings of the tide, or currents, about the Plate and Brunet Islands, which seem to have no dependence on the moon and the course of the tides on the coast.

Sagona Island, which lies N.E., 2 leagues, from the east end of Brunet, is about a mile across each way, of a molerate height, and bold-to all round. On its western side there is a small creek admitting fishing shallops, in the middle of the entrance to which is a sunken rock, rendering it difficult of access, except in very fine weather. A sand-back surrounds this island, running westerly full 7 miles, upon which are 14, 17, and 20 fathoms water.

Point May, the southern extremity of Fortune Bay, and the S.W. extremity of this part of Newfoundland, may be known by a great black rock, nearly joining to the pitch of the point, and a little higher than the land; which malkes it look like a black hummook on the point. At about a quarter of a mile from this black rock are three eunten rocks, over which the sea always breaks.

DANTZIC COVES.-N. by E. 12 miles from Point May is Little Dantric Cove; and 2 miles farther is Great Dantsic Cove. From Dantsic Point (which is the north point of the coves) to Fortune Head, the bearing and distance are E.N.E. 22 lengues; and thence, to the Ville of Fortune 14 miles S.E. by E. This is a fishing-village; and the road where this ships lie has from 0 to 10 fathoms water, quite exposed to nearly half the compass. It lies S.S.W. from the seat and of Brundt. To the N.N.westward of Dantsie Point is the long farrow Bank of Jerstyman's, with 24 and 28 fathoms over it, extending from abreast of the point in the direction of the Flate

The Cape of Grand Bank is high, and lies one league E.N.E. from Fortune. To the castward of this cape is Ship Ofve, where there is good anoherage for shipping in 8 or 10 fathonis water, sheltered from south, west, and north-westerly winds. Grand Bank lies S.E. half a league from the dape, and is a fishing village, where there is no scenaric for shipping, and the arttrance is harred.

scenarity for shipping, and the entrance is harred, From the Cape of Grand Bank to Point Enrages, the course is E.N.K. ‡ E., distance 8, leques. The scent between forms a circular bay, in which the shore generally is low, with several sandy beaches, behlad which are bar-harbours, fit only for boats, of which the principal is Great Garnish, lying 4} heagues from the Cape of Grand Banky, it may be known by several rocks above water, lying before it, at 8 miles distance from the thore; the constructed for the castword, and within these recks, is Fronthanks Core, a convenient place for the cast word, and within these recks, is Fronthanks Core, a convenient place for the cast indersty will shaltered from the shore times run in and anoher in 4 or 5 fathoms water, tolerably will shaltered from the scetimes run in and anoher in 4 or 5 fathoms water, locarbly will shaltered from the scetimes run in and anoher in 4 or 5 fathoms water, locarbly will shaltered from the scetimes run in and anoher in 4 or 5 fathoms water, locarbly will shaltered from the scetimes run in and anoher in 4 or 5 fathoms water, locarbly will shaltered from the scetimes run in and anoher in 4 or 5 fathoms water rocks lying off to the castward of the seat point of the sore, there is a unken rock sharty in the middle of the passage, of which you should be sware. The shore is hold all the way from Point May to the Cape of Grand Bank, there being 10 or 13 fathoms within 8 cables length, and 50 or 40, at a mile off: between the latter and Great Garnish, the water is mot so deep, and ships may anoher anywhere in 8 or 10 fathoms water shaltered only from

From Point Enrages to the head of Fortune Bay, the course is, first, E.N.E. ; E., a leagues to Grand Jervey ; then E. ; N.4. 7 } leagues, to the head of the bay. The land,

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in general, along the south side, is high, bold-to, and of uneven appearance, with bills and yalleys of various extent, the latter abounding in wood, and having many fresh water rivulets.

At 7 leagues to the 'eastward of Point Enragée is Bay L'Argent, where there is anchorage in 30 or 40 fathoms water, sheltered from all winds.

The entrance of Harbour Millé lies to the eastward of the east point of L'Argent. Before this harbour and Bay L'Argent, is a remarkable rock, which, at a distance, appears like a shallop under sail. Harbour Millé branches into two arms, one lying to the S.E. the other to the East; at the head of both are good anchorages. Between this harbour and Point Enragée are several bar-harbours, or small bays, with sandy beaches, but the water all along the coast is very deep : you may safely anchor any-Case Millé lies VC 1

Cape Millé lies N.E. & E. one league from the Shallep Rock; above mentioned, and nearly 5 leagues from the head of Fortune Bay; it is a high, reddish, barren, rocky point. The width of Fortune Bay at Cape Millé does not much exceed half a league; but, immediately below it, it becomes twice as wide, by which the cape may readily be known; and above this cape the land on both sides is high, with steep oraggy cliffs. The head of the bay is terminated by a low beach, behind which is a large pond, or bar-barbour, fit only for boats. There are convenient places for building stages in this, and in all other bar-barbours between this and the Grand Bank, and good beaches for drying fish, available for the accommodation of numerous boats.

Grand le Pierre is a good harbour, situated on the north side of the bay, half a league from the head. The entrance cannot be seen until you are abreast of it. There is no danger in going in, and you may apphor in any depth from 8 to 4 fathoms, sheltered from all winds.

English Harbour lies a little to the westward of Grand Pierre; and to the westward of English Harbour is the Little Bay de l'Eau; both of which are small, and only fit for boats.

New Harbour is situated opposite to Cape Millé, and to the westward of the Bay de lEam. It is a small inlet, and has good anchorage on the west side, in from 8 to 5 fathoms, sheltered from S.W. winds.

The Harbour Femme lies half a league to the westward of New Harbour; it is narrow, and has in it 20 and 23 fathoms. Before its entrance is an islet, near to which are some rocks above water. One league to the westward of Harbour Femme is Brewer's Hole, fit only for boats, before which is also a small island near the shore; and some rocks above water.

Harbour Le Conte is situated one mile to the westward of Brewer's Hole. Before this are some islands, the outer one of which is named the Petitooat Island, the inner, Smock Island. There are also two smaller ones between these, and one or two sunken rocks. The best passage in is on the west side of the outer island, and between the two large ones. As soon as you begin to open the harbour, keep the inner island close on board, to avoid some sunken rocks that lie near a small island, which you will discover between the N.E. point of the outer island, and the opposite point on the main ; there is also another rock, appearing at low water, lying higher up on the middle of the main; and when you get beyond these dangers, you may keep in the middle of the channel, and will soon open a fine spacious harbour, wherein you, abeltered from all winds. There is a small cove to the estward of the outer island, which is fit for small vessels and boats, and otherwise convenient for the fisheries.

Long Harbour lies 4 miles to the westward of Harbour La Conte, and N.E. by E. 2 E., distant 5 leagues from Point Enragés. It may be known by Gull Island lying at its mouth, and a small rock half a mile without the island, having the appearance of a small boat. There is a passage into this harbour on each side of Gull Island, the westward of which is the broader of the two, and has mearly in the middle, a little outside of the island, a ledge of rocks whereon inre 3 fathoms water; and a little within the island, on the assess side of rocks whereon inre 3 fathoms water; and a little within the island, on the assess side of rocks water. Long Harbour runs up 5 leagues into the land; but the only anchoring place is in Morgan's Cove, on the N.W. side of the harbour, about 2 miles within Gull Island, in 10 fathoms water; unless you run above the narrows. There is a salmon fashery at the head of the bay. To the westward of Long Harbour is Hare Harbour, fit for small vessels only. Two

CAPE CHAPEAU ROUGE TO CAPE RAY.

miles to the northward of Hare Harbour is Mal Bay, having very deep water, extending north-easterly about 5 miles, and having no anchorage except at its farthest end. To the westward of Mal Bay, near the shore, lie the Rencontre Islands, the westernmost of which is the largest, and has a communication with the main at low water. In and about this island is shelter for small vessels and boats.

Belle Harbour lies 4 miles N.W. by N. from the largest of the Rencontre Islands. The passage into it is on the western side of the island; and so soon, as you have passed the islands, you will open a small cove, on the east side, where small ves can anchor, but large vessels must run up to the head of the harbour, and anchor in 20 fathoms, where there is most room; it is but an indifferent harbour. About 1 milds westward of Belle Harbour is Lally Cove, behind an island, fit for small vessels only; the west point of this cove, named Lally Head, is high and bluff. To the northward of this head is Lally Back Cove, where ships may anchor, in 14 or 16 fathoms water.

Two miles to the northward of Lally Cove Head, are East Bay and North Bay, in both of which there is deep water, but no anchorage near the shore. At the head of North Bay is the largest river in Fortune Bay, which appears to be a good place for the salmon-fishery, and hence is named Salmon River. CINO ISLES BAY lies to the southward of the North Bay, opposite to Lally Cove islands, and affords tolerably good anchorage for large ships on the S.W. side of the

islands, in the bottom of the bay. The north arm is a very snug place for small vessels; and salmon may be caught at its head.

A little to the southward of the Bay of Cinq Isles is Corben Bay, where there is good anchorage for any ships in 22 or 24 fathoms water.

About 2 miles south-eastward from Lally Cove Head are two islands, bold-to all round, about a mile distant from each other. The north easternmest of the named Belle Island, and the other Dog Island. Between Dog Island and Lord and Lady Island, which lies off the south point of Corben Bay, something nearbr to th latter, is a sunken rock, with deep water all round it; and about a quarter of a mile

to the northward of Lord and Lady Island, is a rock which appears at low water. BANDE DE L'ARIER BAY dies on the west point of Belle Bay, and N. \pm W. S leagues from Peint Enrages. It may be known by a very high mountain over the bay, which rises almost perpendicularly from the sea, named Iron Head; Chapel Island, which forms the east side of the bay, is likewise high. The harbour lies on the west side of the bay, just within the point formed by a narrow low heach, and is a enug place. Between the harbour and Iron Head there is tolerably good anchorage in 18 or 20 fathoms.

Bande de L'Arier, or Bellorum Bank, has 7 fathoms water on it, and lies with the beach of Bande de L'Arier Harbour just open of the west point of the hay, and Boxy Point on with the north and of St. Jacques Island. Two miles to the westward of Bande de L'Arier is the harbour of St. Jacques.

which may be readily known by the island before it being high at each end, and low in the middle. The passage into the harbour is on the west side of the island, free from danger, as is the harbour, where you may anchor in from 17 to 4 fathoms. About 14 mile to the westward of St. Jacques is the harbour of Blue Pinion; and a little to the westward of that is English Cove.

BOXY HABBOUR.-Boxy Point lies W. 1 S. 6 miles from St. Jacques Island, and E.N.E. 1 E. 121 miles from the east end of Brunet Island. It is of a moderate height, and is the point most advanced to the southward of any land on this shore of Fortune Bay. Boxy Harbour, lies N.E. 8 miles from Boxy Point, in which there is anchorage, in 4 or 5 fathoms water, fine sandy ground : to sail in, bring Boxy Point open of a little black head just within the point named Friar's Head; as by following this direction you will keep the middle of the channel, and between the shoals which

this direction yon win step the mome of the one of the part of the barries where the stages are. W.N.W. one mile from Boxy Point is the island of St. John, and N.N.W., a sleep enform St. John's Island, is St. John's Head, high, step, and oragy. Between St. John's Head and Boxy Point is St. John's Head, high, step, and oragy. Between is the harbour, fit for boats only. On the north side of St. John's Head are two rocky is the north side of St. John's Head are two rocky ielets, named the Gull and Shag, having at their west end several sunken roo Great Bay de L'Eau is about 14 league to the northward of St. John's He In this bay there is good anohorage in various depths, sheltered from all winds.

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The passage in is on the east side of the island, which lies in its entrance; for only very small vessels can enter to the westward.

To the westward of Bay de L'Eau, about 3 miles north from St. John's Head, is Little Bay Barrysway, on the west side of which there is good anchorage for large ships in 7, 8, or 10 fathoms; and both wood and water can be obtained with ease:

Harbour Briton lies to the westward of Little Barrysway, and N.N.E. 13 league from the island of Sagona. The heads which form the entrance are high, and he from each other S.E. and N.W., distant about 2 miles. Near the east head is a rock above water. The only danger in going in is a ledge of rocks, stretching 3 eables' length from the south point of the S.W. arm, which is more than a mile within the west head. The only place for ships-of-war to anchor in is above this ledge, before the entrance of the S.W. arm, in 16 or 18 fathoms, mooring nearly east and west; the bottom is very good, and plenty of wood and water are to be obtained here. Opposite to the S.W. arm is the N.E. arm, or Jerseyman's Harbour; which is capable of holding a great number of ships, secure from all winds, in 5, 7, and 6 fathome water : it has a bar at the entrance, on Which there are 5 fathoms. The mark to sail over the bat, if the point of Thompson's Beach, which is the south point at the entrance into the S.W. arm, open of Jerseyman's Harbour; as soon as you open the harbour, haul up to the northward, and anchor.

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¹¹ From the west and of Harbour Briton to Connaigre Head, the bearing and distance are W. J. N., 6 miles; between are Gull Island and Deadman's Bay, off which there is a bank stretching from the shore, between 2 and 8 miles, whereon the depthe vary from 34 to 4 fathoms. The see, during storms, will sometimes break for a considerable way out from Gull Island.

Contractions war. From Connaigre Head, which is high and oraggy, so Basseborre Point, the bearing and distance are N.W. 4 W. 7 miles; between is Connaigre Bay, running about 4 leagues inland. In the month of the bay lie the Connaigre Rocks, above water, which may be approached very near, there being no danger but what above studic; the channel between them and Connaigre Head is the affect, as a ledge of rocks extends a mile from the north shore, which renders the other channel rather dangerous.

¹⁰ Connaigre Harbour is nearly 5 miles above the head, within a point on the south tide of the bay; it is very small, and the depth of water is 7 fathoms. The passage in is on the S.E. side of the faland which lies before it. Abreast of this harbour, hearly m the middle of the bay, are two islands; and on the south side of the westernmost are some rocks above water.

Dawson's Cove is on the N.W. side of the oy, and bears N.N.E. about 4 miles from Connaigre Head, and W.N.W. 2 miles from the west end of the largest and westernmost island; the anchorage is in 6 or 5 fathoms, quite exposed to southerly winds.

winds. ¹⁰ Besseterre Point, which forms the west point of Conneigre Bay, is of moderate. height, blear of wood, and bold to : the shore from thence to Pass Island is, likewise, bold to: Pass Island is nearly W. by N. distant 3 miles from Baseterre Point. Pass Island is the number streamer of Rombus Baseterre Point.

Pass Island is the north-western extremity of Fortune Bay; it is a full mile in length and narrow. From the north viettern extremity of Fortune Bay; it is a full mile in length and narrow. From the north point of Miquelon it bears N.E. by N. Y leagues, and from Point May N. j E. 11; leagues. It is high and lise near the there. On its south western side there are several rocks above water, which strend fully a mile from the island, and to the N.W. is a sunken rock about a quarter of a mile from 1; There is a passage between this island and the main; about 2 cables length wide, which is frequently traversed by small vessels, where they sometimes andeer, on a fine sandy bettom, in 6 fathoms water. The cod-fishery about this part is generally considered good and productive.

The general appearance of the land on the northern side of Fortune Bay is hilly, rising directly from the sea, with graggy barren hills, extending 4 or 5 leagues inland, having many rivides and youds, while that on the southern side of the bar very different appearance, having less of these rugged hills, and being batter olothed with wood of a short brushy kind, giving to the country a green and fartile appearance.

appearance. In the hight time, or in dark foggy weather, too much dependence sheald not be placed on the soundings in Fortune Bay, as in many places, the water hear the abores, and in the creeks and harbours, is often deeper than in the middle of the bay

and to the northward by the islands that form the Bay of Bonne and Great Jervie At its estrance it is more than 3 leagues in width. In sailing along the southern coast from Pass Island, you will discover the Fox Islands, which are distant from Pass Island, you will discover the Fox Islands, which are distant from mitage Cove, about three quarters of a mile from the land, and are said to have good a sunken rock lies also off the southern Fox Island. To enter Hermitage Cove, authen rock lies also off the south side of this island. To enter Hermitage Cove, main land, where you will find 80, 82, and 87 fathoms water ; here you will ese the cove open, and may furn in south, having deep water and without the least danger; and water. From hence Hermitage Bay runs in nearly wast for 12 miles, with very fathoms, and farther in to 9 fathoms; there is a small islet, of two on the south was said, but no danger whatever.

Long Island, separating the Bay of Despair from Harmitage Bay, is of a square form, about 8 miles long and nearly 8 leagues in circuit. The eastern passage is very named the Passage of Long Island. The west entrance into the Bay of Despair, from Hermitage Bay, is by the west end of Long Island. About half a mile from There are four harbours on the south side of Long Island, the easternmose of Which, named Galtaus, is hot small, and lies near the south-east point of the island. The best channel into the harbour is on the west side of several rocky islands which lie at the entrance, wherein are 4 fathours, but in the harbour there are from 15.40

The next is Picarre, which lies N. by E. half a league from the easternmost Fox Island. In entering this harbour keep near the west point, in order to avoid some sunken rocks off the other. The anchorage is in the first cove on the cast side, in 9 Round Harbour is of from all winds.

Round Harbour is the next, and is about two miles to the westward of Picarre. It is fit only for small vessels, the channel in being so narrow.

Long Island Harbour is the fourth, and liss about 31 miles from the west and of Long Island. This harbour has two arms, one running in to the north, the other to the eastward; they are both very narrow, and have from 40 to 7 fathoms water: the eastern arm is the deeper, and affords the best andhorege. The passage in is su either side of an island which lies off the entrance, and has several rocks above water about it.

and of Long Island and Great Jarvis Island (which lies in the mosth of the harbour of that risme). The distance between is 12 mile, and mid-way no bottom is found with a line of 280 fathoms. The Bay of Despair forme two espacious arms, one extending full 8 lesques to the north-easiward, the other about 18 miles northward in everal places: in the north arm there is very deep water and no anohorage this bay which rune easterly, there is a fine salmon faher, and wood in abundance: the base. All the country about this part is mountainous and tolerate River and Cenze River. All the country about this part is mountainous and barres: but the base is being and the same level, and has abundance of wood such a far about the birds, witch has a level, and has abundance of wood such as far about the birds, witch has a level, and has abundance of wood such as far about the birds, witch has a level of the poorth

GREAT JERVIS HARBOUR, situated in the west entrance into the Bay of Der opair, is asfs, with good anohorage in every part in from 16 to 20 fathoms, secure from all winds, and plenty of wood and water. The passage in is on either side of the Great Jervis Island, but the southernmost channel is the safest, there being no danger in it but the above inself, while in the northern obtannel there are several southen rocks. To sail in, you should bring the north point between the two rocks

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above water on the starboard side, and then steer directly in; this will earry you clear of some sunken rocks lying on the west point of the island, and appearing at low water. The entrance to this harbonr may be known by the east end of Great Jervis Island, which is a high, steep, oraggy point, named Great Jervis Head, and is the northern point of the south entrance to the harbonr.

BONNE BAY lies about a league to the westward of Great Jervis Head, and nearly N. by E. distant 7 miles from Plass Island. It has several islands at its eutrance, the westernmost of which is the largest and highest. The best passage in is to the eastward of the largest island, between it and the two casternmost islands. The bay runs in north, 4 miles, and there is no danger but what shows itself. You may go on either side of Drake Island, which is small, and nearly in the middle of the bay; between which, and two small islands on the west side of the bay; within Great Island, there is anchorage in 20 or 30 fathoms; but the best place for large ships is near the head of the bay, in 12 or 14 fathoms, clear ground, and convenience for wood and water: On the N.W. side of Great Island, within the two small islands, is very good anchorage, in from 16 to 24 fathoms, secure from all winds; the entrance to this, from the bay, is to the northward of the two small islands. In sailing in or out of the bay, approach not too near the south point of Great Island, as there are some sunken rocks lying at $\frac{1}{2}$ of a mile from shore. A fittle to the westward of Bonne Bay is Mosquito Cove, a small inlat the aring from 30 to 47 fathoms water.

W.N.W. 4 miles from Bonne Bay is the entrance to the Bays of Facheux and Dragon; this entrance being very conspicuous at sea, the coast may here be readily known. fi

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Facheux, which is the easternmost branch, is very easily seen to seaward; it runs in N.N.E., 2 leagues, and is half a mile wide at the entrance, with deep water in most parts of it. On the west side of the bay are three coved, where ships may anohor, in from 10 to 20 fathoms. Dragon Bay lies in N.W., a league, and is nearly half a mile wide, with 60 or 70 fathoms water, and no anohorage excepting near the head; and then you must lie very near the shore. One mile to the westward of Facheux is Little Hole, with shelter for small craft; and a league to the westward of Facheux is Richard's Harbour, a place fit only for small vessels and fishing shallops, with 28 fathoms water in it.

HARE Bar lies N.W. by W. a league from Richard's Harbour, and runs in N.N.E. about 5 miles, being about 1 of a mile wide, with deep water close home to both ahores in all parts of it, except about a league up on the west aide, where there is good anchorage, in from 8 to 15 fathoms, with plenty of wood and water; and also in a small cove about a mile up on the east side, where there are 30 fathoms, with gradual soundings to the shore.

About 41 miles N.W. from Hare Bay, and 4 miles N.E. from Hare's Ears Point, is Devil's Bay, a narrow inlet, extending a league to the northward, with deep water, and no anohorage until you come close to the head.

no anchorage until you come close to the head. The Bay of Rencontre lies to the northward of Hare's Ears Point, and runs in N.W. Request It has deep water in most parts of it, and is nearly half a mile wide at the narrowest part. The anchorage is in 80 fathoms, above a low woody point on the south shore, quiteland locked. Hare's Ears Point is large, with a ragged rock upon it, which, from some points of view, looks like the ears of a hare. It divides the Bays of Rencontre and Chalsur, and bears N.W. 4 W. 17 miles, from Pass Island. Off this point is a fishing bank, extending a full mile from the shore, having from 20 to 36 fathoms over it. Two miles to the westward of Hare's Ears Point is the Bay of Chalsur, which runs in shore M.W. This way party and has deen waite in most baris.

"I we miles to the westward of Hare's Ears Point is the Bay of Chalsur, which runs in about S leagues N.N.W." It is very narrow, and has deep water in most parts. At the northern aide of the entrance into the bay, and sloke to the land is s small indice, of moderate height; and half a league within the island, on the N.E. sloke of the bay, is a rock above water; a little within this rock, on the same side, is a small cove with a sandy beach, off which you can anchor in 28 fathoms, a cable's length from the slore."

West nearly half a league from the Bay of Chaleur, is Bay Français, a small inlet, running in N.W. $\frac{1}{2}$ W, a mile being at the entrance about $\frac{1}{2}$ of a mile broad, and 17 fathoms deep; but just within are 50 and 60 fathoms; at the head are from 80 to 20 fathoms, good anohorage, and very convenient for carrying on the flabing business.

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CAPE CHAPEAU BOUGE TO CAPE BAY.

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Westward, & miles from the Ray Français, on the east side of Cape is Hune, lies Oar Bay: off the east point of the entrance to which is a low rocky islet, and in the entrance of the bay is another, with a passage ou each alde of it. The bay runs in N.N.E., about 4 miles, and is one-third of a mile wide, with deep water close to both shores all the way up; at the head is a harbour for small yessels, with only 5 fathoms water. At the west side of the entrance into the bay, is a small cove named Oul de Sao, with S and 4 fathoms water, and good ebelter for small vessels.

CAPE LA HUNE is the southernmost point of land on this part of the coast, and lies in lat 47° 81' N. and long. 56° 47' W., bearing W.N.W. 1 N. 81 leagues from Pass/Island, and N.N.W. & N. 10 leagues from Cape Miquelon. Its figure much resembles a sugar-loaf; and it may also be known by the high land of La Hune, which lies a league to the westward of it, appearing flat at the top, and visible from a distance of 16 leagues.

THE PENGUIN ISLANDS He W.S.W. # S. 101 miles from Cape La Hune, and N.W. 1 N. 10 leagues from Cape Miquelon: they are an assemblage of barren rocks lying near to each other, and altogether about 2 leagues in circuit, and may be approached in the day-time to the distance of half a league all round. On the W.S.W. side of the large island, which is the highest, is a small cove, fit for shallops, and convenient for the fisheries; the ground about it is considered to be good for

E.S.E., 7 miles from the Penguin Islands, and S. by W. 3 leagues from Cape Is Hune, lies the Whale or La Hune Rock, on which the sea generally breaks ; it is about 100 fathoms in circuit, with 10, 12, and 14 fathoms water close-to all round it. From this rock a narrow bank extends a league to the westward, and half a league to the eastward, with from 24 to 58 fathoms water on it, rocky and gravelly bottom. In the channel between the shore and this rock, and also between the shore and the Penguin. Islands, are 120 and 180 fathoms of water, muddy bottom; and there is the same depth of water at a league without them.

LA HUNE BAY lice close to the westward of Cape la Hune ; it is about 2 leagues deep, and 1 of a mile wide, with deep water in most parts of it; but there is a sunken rock which lies off the west point of the entrance, nearly one-third over the channel; therefore, in sailing in or out of this bay, you should keep the eastern shore on board. Two miles up the bay is Lance Cove, having anchorage in 14 and 16 fathoms water, good clean ground. A cable's length off the southern point of this cove is a small sheal, with 9 feet water; and between it and the point there are 5 fathoms. To sail into this place keep the east point of the bay open of a red cliff point, off which is a rock above water until the round hill over the valley of the cove, is brought on with the north side of the valley; you will then be above the shoal, and may haul into the cove with safety. There is a narrow bank which stretches guite across the bay, from the south point, of the cove to the opposite shore, whereon are from 27 to

La Hune Harbour lies half a league to the westward of Cape is Hune, and is fit only for small vessels, and is open to westarly winds : before it lies an island near the shore. The shannel into the harbour is on the N.W. side of the island ; there is no

shore. Theismannel into the harbour is on the N.W. side of the island; there is no danger going in, and you must anchor close up to the head, in 10 fathoms water. This harbour is well adapted for the flahery, there being good flahing ground about it, and a large beach quite across from the head of the harbour to La Hune Bay, a space of 600 fest, exposed to the open air, and well calculated for drying fish. Four leagues N.W. 1 W. from Cape Ia Hune, is the entrance of Little River, which is about 100 fathoms wide at the entrance, and 10 fathoms deep; a little way up Hune and Little River the land is tolerably high, and forms a bay, where there are a leagues from the Penguin Islands, and are called the Magnetic Rocks. S. by W. 1 W. 7 miles from the entrance of Little River, and N. by W. 1 W. from the Penguin Islands, its the Little River Rocks, which are just above water, with very deep water all round them.

HE RAMEA ISLES, which are of various extent, softh in height and circuit, lis N.W. & N. 02 leagues from the Penguin Islands, and a league from the main. They extend east and wast 5 miles, and north and south 2 miles, and have several rocks and breakers about them ; but more on the south side than on the north. The

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mall inlet. broad, and are from the fishing easternmost island is the largest, and is high and hilly : the westernmost, called Columbe, is a remarkably bigh, round island, of small sirouit, with some rocky islands

There is a harbour for small vessels, formed by the islands which lie near Great, Before and the Columba, named Rames Harbour, where they may lie sheltered from all winds. To enter this from the westward, you should give the southern point a berth, on account of some rocks that lie, off the starboard island, all of them being above water ; steer E.N.E. towards the harbour, keeping as nearly mid-channel as Bhip Core. This is the second inlet on the north-western shore ; you will here ride here the northern side of Great Banes on board, until you arrive at the west end thereof, then steer S.W. into the harbour, keeping in the middle of the channel, in about 3 fathoms, and anchor as before directed. This harbour sit very convenient for stages, and faring fish, which seen to be well calculated for that purpose.

The Rames Rocks are two in number, close to each other, lying about south, 4 miles from the east end of Great Rames. W.S.W., distant 3 miles from these rocks, is a small bank, with only 6 fathoms water on it; and nearly in the middle, between Rames and the Penguin Islands, is the New Bank, with from 14 to 50 fathoms water. To run upon the abcalest part of this bank, bring the two Rames Rocks in one with the south-western part of Rames Islands, and between them and Columbe; and the entrance to Little River N.E. ‡ E.

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Four miles to the westward of Little River is Old Man's Bay, which rune in N.N.E. about 7 miles, and is nearly a mile wide : the water throughout the bay is very deep. About 14 miles up the bay, on the eastern side, is a small island, named Adam's Island, behind which vessels can ride, if necessary, in 30 and 40 fathoms; but the best anchorage is at the head, in 14 or 16 fathoms.

Mosquito Harbour lies about half a league to the westward of Old May's Bay. It is a sing and safe harbour, and will hold a great number of vessels in perfect security ; but the entrance is so narrow, being only 48 fathems in breadth; that it is difficult to get in or out. The land on both sides is high ; and diff the southern point of entrance is a large while rock, about a cable's length from which is a black rock, above water, having on its southern aide a sunken rock, whereon the see breaks; from this black rock to the entrance of the harbour, the course is about N.N.W., distance, one-third of a mile. In sailing either in or out, you should give the black rock quick as possible in getting a rope on shore, lest you drift on the rocks. In this harbour you will have from 18 to 30 fathoms water, with good riding everywhere, and plenty of both wood and water. In the marker you drift on the rocks. In this harbeing bold to. South and easterly winds blow right in, northerly winds right out; and with waterly winds it is commonly either quite eatin, or descends in irregular puffs. For Island Harbour is formed by an island of the same name; it lies about half a sunken rocks. This is a commonly either quite eatin, or descends in irregular puffs. I have and to fathoms harbour; between are several rocky islands and with waterly winds it is commonly either quite same name; it lies about half a sunken rocks. This is a commodium harbour for small vessels, which may anohor in 8, 9, and 40 fathoms water. You may go in on either side of the island, and there is no danger but what shows itself.

White Bear. Bay.-This bey lies about 2 miles to the westward of Fox Island Harbour, and N.M.E. one league from Great Ramas Island : it has several islands at its entrance. It rule in N.E. ? N. shout 4 leagues; is nearly half a mile wide in the harrowise part, ind has deep water close to built shows in most parts, to the distance of 8 miles up; then the ground rises at once to 9 fathous, whence is shelens grades ally to the head, with good anchorage. The best passage into the harvis is the castward of all the islands. On the S.W. side of Batri Island, which is the casternimost and largest in the mesth of the bay, is a small harbour, ramhing in shout east, half a mile, with from 10 to 33 fathoms of water i but the western embrance is high, round, white island; and S.W. half a mile from this island, it is black rock; above this black rock; and S.W. thaf a mile from the is to the vestward of the bay, in the to the bay, is a small harbour, it is a black rock; above before its mouth, rendering it difficult of scores. At the western embrance is high, round, white island; and S.W. thaf a mile from this island, it is a black rock; above this black rock; and between White and Elevi Island; a one of the rocks are above a mile off the land.

CAPE CHAPEAU BOUGE TO CAPE RAY.

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ox Island islands at ide in the distance as gradue is to the castornibout east, At 6 or 0 miles to the westward of White Bay, and nearly north from Ramea Golumbe, are two small harbours, named Red Jeland Harbours, formed by Red and has from 6 to 8 fathems water, good anoberage. In going in keep the land best,

and has from 6 to 6 fathoms water, good anoherage. In going in the part is a land olone on board, the miter part of which is composed of steep rediding home its name about a board, the miter part of which is composed of steep rediding home its name about a board, the miter part of which is observed in the steep rediding home its name about a board, the miter part of which is observed in the baland extending about 5 miles along shore, and forming everal snug and cominedicus harbours. They lie about 9 miles hore, and form 6 the N.E. side of Boar Island, which is the northernmost, and lies passage is on the N.E. side of Boar Island, which is the northernmost, and lies nanovered at low water, on which the sea generally breaks; you may go on any side of this rock, the water being deep all round it's a soon as you are to the N.M. of ft. here the morth side of Boar Island on board, and steer W i N. for Grandy Cove that point, and anohor in the first low point on your starbeard bow ; hand round the best place for land the fact fathoms, and more with a fast on ebore. The best place for land the fath of Boar Island, in 20 or 24 futhoms, good round and and starter droud the sea general is form the wetward is dantiel and lying near the same of Boar Island, and good anehorsing : and, in board as the ward and entward, b

fear. The islands do not word sitter wood or water. The outrance is E.M.E., 2 miles from Bear Island, and two miles to the westward of Red Island Harbour. The east ab a distance of a quarter of a mile from shore, whereon the sea breaks in bad and water.

King's Harbour lies yound the west point of Welf Bay, and runs in N.E. by E. & of a mile; before its mouth is a cluster of little islands. To sail in keep the sait point of these islands on board, and steer N. by W. and North for the entrance of the harbour, anohoring under the cast shore, in 9 fathons.

HA-HA.—On the south side of the islands before King's Harbour, and nearly north, a mile from Boar Island, is the entrance into the Ha-Ha, which runs in w.N.W., a mile; and is about a quarter of a mile broad, with from 20 to 10 fathoms barbour is a high grees hill; and 14 oable's length from the point is a sunken irrok; that always shows itself. Over the head of the Ha-ha is Richard's Head, a mark for running upon Rames Shoal.

THE BAE OF OUTPEAU is about 3 longues to the westward of Conneirs, and will what shall wessile only. I Round the west point of Outbeau is Ong Soft wherein are a number of inhunds, which form several small saugharbours. Thigh of Ging Westward of which is the sitest passage into the karges harbour they bis a the

CAPE CHAPEAU BOUGE TO CAPE RAY.

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rock, steering E.N.E. + E. towards the south-eastern shore, until you get abreast of a small woody island ; this is the easternmost except one, and lies about a quarter of a mile E.N.E. from a white rock in the middle of the channel; haul short round this island, and anchor behind it, in 7 fathoms water, here, you will lie safely, eheltered from all winds, or you may go farther up, and anchor at the head of the bay, in 4 fathoms.

Four miles to the westward of the rocky island of Cinq Serf, is the harbour of Grand Bruit, which is small but commodious, and may be known by a very high and remarkable mountain over it, half a league inland, which is the highest land on all the coast : down this mountain runs a considerable brook, emptying itself, by a cascade, into the harbour. Before the mouth of the harbour are several little islands, the largest of which is of middling height, with three green billocks on it. A little outside of this island is a round rock, rather high above water, named the Columbe of Great Bruit; and a quarter of a mile to the southward of this rock is a low rock : in a direct line between the low rock and the rocky isles of Cinq Serf, half a lesgue from the former, is a sunken rock, whereon the sea does not break in fine weather. The safest passage into Grand Bruit is to the north-eastward of this rock, and of the islands lying before the harbour, between them and the three islands (which are low, and lay under the shore); and, after you are to the northward of the sunken rock, above mentioned, there is no danger but what shows itself. The harbour extends N.N.E., half a mile, and is but a quarter of a mile wide in the broadest part; but

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it is bold to on both sides, and has a depth of from 4 to 7 fathoms. To the westward of Grand Bruit, between it and La Poile Bay, lies the Bay of Rotte, wherein are a great many islands and sunken rocks. The southernmost is a remarkable high round rock named the Columbe of Rotte, which lies N.W. by W. 84 leagues from the southernmost of the Burgeos. Between this island and Grand Bruit is a reef of rocks, some above and some under water, but they do net lie to the southward of the direct line between the islands.

Within the islands of Rotte there is shelter for shipping : the safest passage in is to the weetward of the islands between them and Little Ireland, which lies off the east point of La Poile Bay.

LA POILE BAY .- This bay is large and spacious, and has several commodious harbours. It may be known by the high land of Grand Bruit, which is only 5 miles to the eastward of it; and likewise by the land on the east side of the bay, which rises in remarkably high craggy hills. About 14 mile S.W. from its east point lies Little Ireland, a small low island, environed with sunken rocks, some of which are one third of a mile off. North, about half a mile from Little Ireland, is a sunken rock that shows itself at low water : this is the only danger in going into the bay,

Two miles within the west point of the bay, and N. 1 W. 2 miles from Little Ireland, is Tweeds, or Great Harbour; its south point is low, and it extends inwards, anchorage is near the head of the harbour, in 18 or 20 fathoms, clear ground, and heltered from all winds. At half a mile to the northward of Great Harbour; is Little Harbour, the north point of which, named Tooth's Head, is the first high bluff head on the west side of the bay; the harbour extends inwards W.M.W., about a mile. In sailing in, give the south point a small berth. You may anchor about half-way up the harbour, in 10 fathoms water, before the stage which is on its northern side,

Gally Boy's Harbour lies on the east side of the bay, opposite Toth's Head; it is small, anug, and convenient for ships bound to the westward. The north point is high and sizep, with a white spot in the sliff, and near its southern point are some hillocks close to the shore. To sail in or out, keep the north side on board. You must anchor so soon as you are within the inner south point, in 9 or 10 fathoms, good ground, and sheltered from all winds. One mile to the northward of Gally Boy's Harbour, between two sandy coves on the east side of the bay, and nearly 2 cablea length from the shore, is a sunken rock, that just uncoyers at low writer. Broad Cove is about 2 miles to the northward of Tooth's length on the same side

of the bay. In this there is good anchorage in 12 or 14 fathoms. The N.E. Arm lies about 3 leagues from the entrance of the bay, on the eastern

side ; and forms a spacious, safe, and commodious harbour. In sailing in, give the

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low sandy point on the S.E. side a small berth, and anohor above it, where convenient, in 10 fathoms water, good holding ground, sheltered from all winds, and very convenient for wood and water.

Indian Harbour and De Plate he just within the outer west point of La Poile Bay; these are two small coves conveniently situated for the fishery, but fit only for small vessels which may get in at high water.

Little Ireland bears from the southernmost of the Burgeos N.W. by W. J Williams; and lies nearly 11 leagues to the eastward of Cape Ray.

From Little Ireland to Harbour la Coue, and La Moine Bay, the course is W.N.W. \$ W., 9 or 10 miles; between lies the Bay of Garia, and several coves, fit only for small vessels, before which there are many islands and sunken rocks scattered along sunken rocks discover themselves. To easil into Garia Bay, you will, in coassing along sunken rocks discover themselves. To easil into Garia Bay, you will, in coassing along land, off the eastern point of the bay, and a little to the westward of two green hillocks on the main : bring this white point N.N.E., and steer directly towards it ; keep between it and the several jalands that lie to the W.S. westward. From the which \$ low. The Bay of Garia affords plenty of timber, large enough for building ships.

ships. The S.W. point of the entrance into Harbour la Coue, named Rose Blanche Point, (near to which are some rocks above water.) is tolerably high, and the land near the shore over Harbour la Goue and La Moine Bay is much higher than any other land in the vicinity: by this the harbours may be known. La Moine Bay extends inwards part. Off the east point are some small islands and rocks above water. In sailing towards the east shore, and run up to the head of the bay, where you may anchor in 10 or 11 fathoms, good ground: here is plenty of wood and water.

To sail into Harbour la Coue, which lies at the west entrance into La Moine Bay, eteer in N.N.W.; between a rock above water, in the mouth of the harbour, and the west shore; as soon as you are within the rock, hanl to the westward into the harbour, and anchor in 6 or 8 fathoms water, mooring with a hawser on shore: or you may steer into the arm, which runs in N.E. by E. from the harbour, and anchor in 20 fathoms, sheltered from all winds. This has been the resort of the small fishing vessels for many years.

"To the westward of Rose Blanche Point is the harbour of the same name; it is small and snug, and the anchorage is in 9 fathoms water. The channel into the harbour is between the island lying off its western point, and Rose Blanche Point; give the island a good berth, on account of some sanken rocks which lie on its eastern side, and keep the west side of the small island which lies close to the point on board, then anchor within the N.E. point of this island in 9 fathoms. To enter into the ous islands and rocks.

Mill Face is a small cove, 2 miles to the westward of Rose Blanche Point, wherein is anohorage for small vestels in 4 fathoms. Off the west point of the oove are two small islands, and several sunken rocks; the passage in is to the eastward of these. Seven miles to the westward of Rose Blanche Point are the Burnt Islands, which is chelter for small vessels. Off these islands are sunken rocks, some of which are half a mile from the shore, and the burnt is and are not easily to be distinguished from it; belind these half a mile from the shore.

Six miles to the westward of Rose Blanche Point, are Conney and Otter Bays, both of which are rendered difficult of access by several sunken rocks outside the passage, which do not show themselves in fine weather ; but when once you are safe within Otter Bay, there is good riding in 7, 8, and 9 fathoms water. DEAD ISLANDS HARBOUR. W.N.W. 4 W., nearly 4 leagues from Rose Blanche Point; are the Dead Islands, which lie close under the shore. In the Passage to Dead Islands Harbour hetmans the talands and the shore.

Blanche Point; are the Dead Islands, which lie close under the shore. In the Passage to Dead Islands Harbour, between the islands and the main, is good anchorage for shipping in 6, or 6 fathoms, sheltered from all winds; but it is very dangerous of entrancess. This eastern entrance can be known by a remarkable white spot on one

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of the islands; bring this spot to bear N. by W., and steer in for it, keeping the perfoard rocks on board, and leave the white spotted island on your port side. The western entrance may be recognized by a high point on the main, a little to the westward of the islands, on the western part of which point is a green billock; keep, this point close on board, until you get within a little round rock, near to the westernmost island, at the eastern point of entrance; then hand over to the eastward for the great island, distinguished by a high hill, and, steer E. & N. keeping the beforementioned little rock in sight.

PORT AUX BASQUE From the Dead Isles to Port anx Basque, the source and distance are W.N.W. about 4 miles; between lie several small islands close under the shore, and there are sunken rocks, some of which are half a mile from the shore. Port aux Basque is a small commodious harbour, lying ibout 34 leagues to the eastward of Cape Ray. To fall, in with it, bring the Sugar-Loaf Hill over Cape Ray to bear N.N.W. 4 Wi, or the west end of the Table Mountain N.N.W. Steer in for the land gith either of these marks, and you will fall directly in with the harbour; the S.W. point, named. Point Blanche; is of a moderate height; and of white appearance; but the N.E. point is low and flat, and has, close to it, a black rock above water. In order to avoid the outer shoal, on which are 8 fathoms, and which lies E.S.E., three-quarters of a mile, from Point Blanche, keep the said point on board, and bring the flag-staff which is on the hild over the west side of the head of the harbour, on with the S.W. point of Road Island : that direction will lead you in the middle of the ohannel, between the east and west rocks, the former of which always abow themselves, and these you leave on your starboard hand; ontinue this course up to Road. Island, and keep the west point on board, in order to avoid the Frying. Pan Bock, which stretches out from a cove on the west shore, opposite the island.

As soon as you are above the island, haul to the E.N.E., and anchor between it and Harbour Island wherever you please, in 9 or 10 fathoms, good ground, and sheltered, from all winds; this is named the Road, or Outer Harbour, and is the only anchoring place for men-of-war, or ships drawing a great depth of water, but small vessels always lie up in the Inner Harbour. To sail into it, run in between the west shore and the S.W. end of Harbour Island, and anchor behind the said island, in 8 or 4 fathoms. In some parts of this harbour ships can lay then broadsides so near to the shore as to reach it will a plank. This place has been frequently fishermen for meny years; it is well situated for their, purposes, and is capable of most excellent accommodations. A mile to the eastward of Basque is Little Bay.

GRAND BAY lies about 2 miles to the westward of Port aux Basque; there are several small islands and rocks in and before it, the outermost of which are not above a quarter, of a mile from the shore; on these the sea generally breaks. It is only fit for small vessels, may get it have the sea generally breaks. It is only fit

From Port aux Bisque to Point Enragée, the bearing and distance are W.N.W., about a league, and thence to Cape Ray, N.N.W., nearly 11 league. Point Enragée is low; off it, and to the eastward of it, are some wanken rocks, a mile from the elore, whereon the see breaks, weather a fit are some wanken rocks, a mile from the elore, whereon the see the set of the second second

OAPE EAT, the S.W. extremity of Newfoundland, is situated in latitude 47° 37' N., and longitude 50° 33' W. The land of the cape is very remarkable; near the shore it is low, but 3 miles inland is a very high table mountain, which rises almost perpendicularly from the low land, and appears to be quite flat at the top, obsepting a small hillock on the S.W. yoint of it. This land may be seen, in clear weather, from the distance of 16 or 18 lesques. Close to the foot of the table mountain, between it and the point of the cape, is a high round hill, resembling a sugar-loaf, (named the Sagar-Loaf of Cape Ray), whose summit is a little lower than that of the table mountain; and to the northward of this hill, under the table mountain, are two ether, conleaf hills, resembling, sugar-loave, which are not so high as the former; one en other of these sugar-loaf, hills are, from all points of view, seen detoold from the table mountain.

There is a sandy by between Cape. Ray and Point Enrages, wherein ships may anahor with the winds from N.N.W. to East, but they should be cautious not to be surprised there with S.W. winds, which blow directly in, and cause a great set. The ground is not the best for holding, being ine sand. Towards the cast side of this bay is a small ledge of rocks, a mile from shore, on which the set does not break in fine weather. The best place for large ships to knohor in is, to bring the point of the

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cape N.W., and the high white sand-hill in the bottom of the bay N.E. in 10 fathoms water. Small vessels may lie farther in. Be careful not to run so far to the eastward as to bring the end of the table mountain on with the sand-hill in the bottom of the # bay, by which means the ledge of rocks, before mentioned, will be avoided.

N.W. 1 W., nearly a mile from the point of the cape, is a small ledge of rocks, named the Cape Rocks, whereon the sea always breaks; and one mile to the northward of the cape, close under the land, is a low rocky island. There is a channel between the ledge and the cape, with 14 and 15 fathoms water; and also between it island with 4 and 0 fathoms; but the tides, which run here with great rapidity, render it unsafe for shipping.

The soundings, under 100 fathoms, do not extend above a league from the land to the southward and easthard of the cape, nor to the westward and northward of it, except on a bank which lies off Port any Basque, between 2 and 3 leagues from the land, whereon are from 70 to 100 fathoms, good fishing ground. S.E. 5 S., about 18 leagues from Port aux Basque, in the latitude of 47° 14' N.; is said to be a bank, whereon are 70 fathoms.

THE TIDES.—Between Cape Chapten Rouge and Cape Ray, in all the bays, &a., the tide generally flows till 9 o'clock, on full and change; and its perpendicular rise is about 7 or 8 feet on springe; but it must be observed, that the tides are verywhere influenced by the winds and weather. On the coast, between Cape Chapeen Rouge and St. Piarre, the current sets generally to the S.W. On the south side of Fortune Bay it sets to the extrant, and on the north side to the westward. Between Cape La Hune and Cape Tay, the flood sets to the westward in the offing, very irregularly; but generally 3 or 8 hours after it is high water by the shore. The tide, or current, is inconsiderable, excepting near Cape Ray, where it is strong; and st times sets quite contrary to what might be expected from the common course of the depend chiefly on the winds.

WEST COAST OF NEWFOUNDLAND.

CAPE RAY TO CAPE NORMAN.

CARE AUGUILE bearing N. 1 E., 17 or 18 miles from Cape Ray, is the northernmost point of land you can see, after passing to the westward of Gape Bay; it is high table land, and the country above it is covered with wood. Between the high land of the two capes, the coart is low, and the shore forms a bay, wherein are the great and little rivers of Cod Roy; the northernmost, or Great Cod Roy River, is a barred-barbour, which, at high water, will only afmit vessels whose draught does not exceed 8 or 10 feet. The shore between the two capes may be applicathed to about half, a league, there being no danger at that distance off it. It is a good salmen-flakery, and is adapted for building small vessels and hoats, there being timber in abundance.

The Island of Cod Roy lies 14 or 3 miles to the southward of Cape Asguille, slowe under the high land, and is a low, flat, green island, of nearly 2 miles in compass, in the shape of a horse-shoe, forming, between it and the main, a small any harbour for vieweds of 10 or 12 feet draught, the safest entrance to which is from the southward. This shift entation the ansate the backst backst

"Od Roy Road lies south eastward from the island, and affords good anohorage for shipping, in 9, 7, or 6 fahoms, on a elsy bottom. "With the south point of the island bearing about W.N.W. and the point of the beach on the island of the island, at the south entrance into the harbour, on with a point on the main to the morthward, of the island, you will lie in 7 fathoms, and nearly half a mile from the shore, "A lengue to the southward of God Roy Island is a high bluff point, named Stormy Point, off which a shoal stretches out a fail half mile ; this point covers the road from the S.S.E. winds, and there is good anohorage all along the above, between it; and, the bland, you will in there is good anotherage all along the above, between it; and, the bland, you have no divid a drugs fail that file light of the fragment of or or parts.

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ST. GEORGE'S BAT .- From Cape Auguille to Cape St. George the course and distance are N.N.E. # E., about 12 leagues: between these two capes is the Bay of St. George, which extends inwards E.N.E., 18 leagues from the former, and E.S.E., 11 leagues from the latter. WAt the head of this bay, on the south side, round a low point of land, is a harbour, with anchorage in 8, 10, or 12 fathoms water. The river St. George empties itself into the head of this bay, but it is not navigable for anything but boats, and it appears to be fast filling up with sand. On the north side of the bay, before the isthmus of Port-au-Port, is good anchorage, in 7 or 8 fathome, with northerly winds : from off this place a fishing bank attratches two-thirds across the bay,

with from 7 to 19 fathoms water on it, dark sandy bottom. Cape St. George lies in latitude 48° 28' north, and may be readily known, not only by its being the north point of the Bay of St. George, but also by the steep cliffs on the north part of it, which rise perpendicularly from the sea to a considerable height; and by Red Island, which lifes 5 miles to the north-eastward of the cape, and half a mile from the shore. This island is about 13 miles in length, and of a middling height; the steep oliffs around it are of a reddiah colour. There is anchorage with off shore winds under the N.E. end of the island, before a sandy cove on the main, which lies just to the northward of the steep cliffs, in 12 or 14 fathoms; you will there ride, covered from the S.W. winds by the island, and from the southerly and easterly winds by the main land; but there is no shelter whatever with winds from the N. or N.W.

by the main induct, but there is a new resorted to by vessels in the flehing-trade. From abreast of Red Island, distant 4 or 5 miles, to Long Point, at the entrance into the Bay of Port-au-Port, the bearing and distance are E. by N., 7 or 8 leagues : from Red Island to Guernsey Island, in the mouth of the Bay of Islands, E.N.E., nearly 16 leagues; from Red Island to Cape St. Gregory, N.E. by E. I E. Jully 20 leagues; and from Red Island to Point Rich, which is the north point of Isgrenachoix Bay, N.E. by E., 49 leagues. **PORT-AU-FORT.**—The land between Red Island and the entrance into Port-au-

Port is rather low, with sandy beaches, except one remarkable high hillock, named Round Head, close to the shore, about 2 leagues to the E.R. Eastward of Red Island; but up the country, over Port-au-Port, are high lands; and if you are 3 or 4 leagues off at sea, you cannot discern the long point of land which forms the bay. This bay is capacious, being about 5 miles broad at the entrance, and 4 leagues deep, running in to the south and south-westward, with good anchorage in most parts of i

Long Point is the west point of the bay ; it is low and rocky, and a ledge of rocks extends from it E.N.E. nearly a mile. S.E. by E. ‡ E., 4 miles from Long Point, and half a league from the east shore, lies Fox Island, which is small, but of middling height. From the north end of this island a shoal stretches out nearly 2 miles to the N.N.-Eastward, named the Fox's Tail; and, nearly in the middle of the bay, between Fox Island and the west shore, lies the Middle Ground, on one part of which, near the S.W. end, there are not above S.or 4 feet water. From the head of the bay, projoining out into the middle of it, is a low point, named Middle Point, off which, ex-tending 2 miles N.E. by N., is a sheal spit, part of which drive at low water; this Middle Point divides the bay into two parts, named East and West Bays.

From the head of the East Bay over to the Bay of St. George, the distance is above a quarter of a mile; this isthmus is very low, and has a pond in the middle of it, into which the see frequently dashes, especially at high tides, and with gales of wind from the southward. On the east side of it is a tolerably high mountain, rising directly from the isthmus, and flat at the top: to the northward of this, and at about 5 miles distant from the isthmus, is a conspicuous valley or bollew, hereafter to be used as a mark. N.E. by E. + E., above two leagues from Long Point, and half a league from the shore, lies Shag Island, which appears at a distance like a high rock, and is easily to be distinguished from the main ; and W.N.W.; about a league from and is easily to be distinguished from the main ; and W.N.W.; about a league from it, lies the middle of Long. Ledge, a marrow ledge of rocks, stretching E.N.E. and W.S.W. about 4 miles; the calibrar part of them is above water; and the channel into the bay of Port-au-Port, between the west end of this ledge and the rest which stretches off from the west point of the bay, is a league wide. In sailing in, if coming from the south-westward, advance no nearer to the Long Point of the bay than 14 mile, until jour have brought the valley in the side of the mountain before mentioned (an the east aids of the isthmus), over the east end of Fox Island, or to the eastward of it, which will then bear south a little easterly ; you will

then be clear of the Long Point Reef, and may haul into the bay with safety ; bnt, if coming from the N.E. without the Long Ledge, or turning into the bay in order to keep clear of the S.W. end of Long Ledge, bring the isthmus, or the foot of the monation (which is on the east side of the isthmus), bpen to the westward of Fox Island, nearly twice the breadth of the island, and it will lead you into the bay, clear of Long Ledge; and when Shag Island is brought on with the foot of the high land on the south side of Coal River, bearing then E.- 5. you will be within the Long Ledge. There is also Shag Island, though dare must be taken to avoid a small shoal of 22 fathems, lying W. by N. a mile from the island.

To sail up into the West Bay and Head Harbour, keep the western shore on board; this shore is bold-to. In turning between it and the Middle Ground, stand no nearer to the Middle than into 8 fathoms; but you may stand to the spit of the Middle Point into 6 or 5 fathoms. The anchorage in West Bay is in about 8 fathoms, and in Head Harbour in about 5 fathoms. The West Bay is in about 8 fathoms, and in about 2 miles south-westward of Long Point, where you may lie very secure from westerly and N.W. winds, in about 10 or 12 fathoms water; this beach is steep-to, and forms an excellent place for landing and drying fish. There is a good place at the northern end of Fox Island for the same purpose. The whole bay and the adjacent coasts abound with cod, and extensive fishing banks lie all along them.

The East Road lies between Fox Island and the east hore. To sail up to it, you ishould keep the bigh bluff head, which is about a league the E.N.E. of the island eastward of Fox Island; you will then be within the shoal named the Fox's Tail, and in from 10 to 18 fathoms.

To sail up into the East Bay, pass between the island and the east shore; and after you are above the island, come no nearer to the main than half a mile, until you are abreast of a bluff point above the island, named Road Point, just above which is the best anchorage with N.E. winds, in about 12 fathoms water. To sail up into the East Bay between the Middle Ground and the Fox's Tail, bring the said bluff point on with the S.W. point of Fox Island; this mark will lead you up in the fairway between 12 fathoms water.

EAT OF IELANDE.—From the Long Point at the entrance of Port-au-Port to the Bay of Islands, the bearing and distance are N.E. by E. J. E., 8 leagues. Be careful to avoid the Long Ledge. The land between is of considerable height, rising in oragy barren hills, directly from the shore. The Bay of Islands may be known by the many islands in the mouth of it, particularly the three named Guerneev, Tweed, and Pearl, which are nearly of equal height with the land on the main. If you are bound for Lark or York Harbours, which lie on the Sulf side of the bay, and are coming from the southward, run in between Guerneev Islands and the South Head, both of which are bolding thut with southerly and S.W. winds Elproach not too near the South Head, lest come and audden gusts of wind should proceed from the high land, under which you cannot anchor with safety. There are averal ohannels formed by the different islands, through which you may sail into or cut of the bay, there half a mile north-castward from the forthern Shag Rock, and in a line with the two north Sbag Rock, you will go clear to the eastward, the staward of the ledge then between Tweed and Pearl Islands.

From Guernsey Island to Tortoise Head, which is the north point of York Harbeur; and the S.E. point of Lark Harbour, the course and distance are hearly S. by W. 1 W. o miles. Lark Harbour extends inwards W. by S. nearly 2 miles, and is one-third of a mile broad in the entrance, which is the narrowest part. In sailing into it with board aide, bearing W.N.W., N.N.W., or N.N.E., and you will ride in § or 7 fathoms, water, secure from all winds.

York Harbour lies W.S.W., nearly a league, from Tortoise Head. There is good turning room between the Head and Governor's Island, which lies before the herbour;

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a, not only ep cliffs on ble height; and half a ing height; h off-shore which lies there ride. terly winds I. or N.W. z-trade. e entrance 8. leagues ; E.N.E., E. Mully 20 f Ingrena-

to Port-auock, named led Island;, r 4 leagues This bay p, running it. ge of rocks Point, and f middling diles to the y, between which, near e bay, prowhich, ex-

distance is a middle of h gales of tain, rising d at about after to be and half a high rock, ague from L.N.E. and sannel into reef which

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At you must avoid a shoal running off from a low beach point on the rest end of Go-vernor's Island, named Sword Point. There is also a second when one off from the next point of Governor's Island, which must also be availed? Hereise beach barth; passing which, we best anchoring ground is in the second starts Sword Point beach on the main, whi Tortoise Head open of Sword Point. West and we westerly winds live here with great violence. Harbour Island live at the entrance of the Rive Humber, and Woy West H. from Guernsey Island; as its S.W. point is Woods Harbour a place undit for abid-ping. The River Humber, at about 5 here within the entrance, becomes narrow with great difficulty that over a boat of the next the should be backs of this river are well clothed with times, and formarily a great salmon hearry was assisted the here.

The North and South Arms are both long inley, will very deep water up to their heads. On the essential of Eagle Island, between the Yorth and dent train a in-charmen 8, 10, 12 fithoms water. Under the norm side of Harby Maland So trage in S.W. sinds; and opposite the S.E. case of Harby Maland, So the bay, is Manchman's Core, was rest is good anchorage in from odd.

Small Bay, which lies a little on the outside of South Head; Sword Point, in Governor's Hand, is an excellent place for

N. . Solution is an intervention of the source and distance are nearly N. . Solution and theore 13 or 14 miles, on a similar buring, will carry you to the strange of Bonne Bak. The land near the shore, from the north Shag Hook to Cape Gregories low; but a very little way inland it rises not a high mountain, ter-minating the up in round hills. Along this part of the coast there are sunken bets a quarker of a mile from the shore. 100

DAPE ST. GREDORY is high, and between it and Bonne Bay the land rises directly from the see shore to a Sonsiderable beight. It is the most northerly land seen when sailing along shore between Red Island and the Bay of Islands.

BONNE BAY. This bay may be known, at the distance of 4 or 5 leagues, by the land about it ; all that of the S.W. side of the bay being very high and hilly; and that on the N.E. aids, and thende along the sea-coast to the northward, being low and flat; though at about one league inland, there is a range of mountains, running parallel with the sec-coast. Over the south side of the bay is a very high mountain, termi-nating at the top in a semalkable round hill, very conspicuous when you are to the northward of the bay. This bay extends inwards S.E., nearly 2 leagues, then branches into swe arms, one of which runs in to the southward, and the other to the eastward. The southern arm affords the best anchorage; small vessels should ride just above a low woody point at the entrance into this arm, on the starboard side, before a sandy besch, in 8 or 10 fathems water, shout a cable's length from the shore. There is no other anchorage in less than 89 or 40 fathoms, excepting at the head of the arm, where there are from 25 to 20 fathoms water. In sailing into the east arm, keep the starboard shore on board; and a little way round a point at the entrance will be found a small cove, with good suchorage in 17 to 20 fathoms, but you must moor to the but the the grader. N 13.11 141

There is a mug cove also close within the north point, with anchorage in 6 or 7 fathoms water. In sailing in or out of Benne Bay, with the W. winds, come not near the weather shore, lest you should happen to be heavy gasts of wind; as the depth of water is too great. At 10 miles to the northward of Bonns Bay is Mar 45 which, about the quarters of a mile, is a un breaks. Broom int is low and white, and has Martin Point; this a mile W.S.W. from; shows itself. the worth side of Broom Poin

vessels may anchor with off-shore winds ; but it is LOOW HEAD lies about 8 miles to the north ward promontory, which has the appearance of an island, be

or should meet with it of your anchoring, bigh and white ; off ague to the northward o to burned mken rock that seldom. Bay of St. Paul, wherein osed to the sea y of St. Paul ; this is a to the main only by

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CAPE RAY TO CAPE NORMAN.

a very low and narrow-neck of land. About three-quarters of a mile off this head lies Steering Island, which is low and rocky, and is the only island on the coast between the Bay of Islands and Point Rich. Cow Cove lies on the south side of Cow Head, and ships may lie there, in from 7 to 10 fathoms, sheltered from northerly and easterly winds. Shallow Bay lies on the north side of Cow Head, and has water sufficient for small.vessels. At the N.E. side of the entrance is a cluster of rocky islands, extending E.N.E. and W.S.W.; and at the W.S.W. side are two sunken rocks close to each other, which generally show themselves; they lie a cable's length from the above, and there is a channel into the bay on either side of them. Steering Island lies right before this bay, and you may pass it on either side; but come not too near its N.E. end, as there are some sunken rocks extending from it. This is considered the best situated for a fishery on all the coast, and the grounds about its environs are eminently productive.

THEREMACHONE BAY .-- Point Rich, the northern point of Ingrensohoix Bay, a distant above 50 miles; N.E. ; E. from Steering Island; all the way between Shallow Bay and the south point of Ingrenachoix Bay, the coast forms nearly a straight line without creek, cove, or shelter from seaward, though vessels may here and there anchor, with off shore winds.

About 6 leagues from Steering Island, a smile inland, stands Portland Hill, so named from its resemblance to the Bill of Portland in the English Channel; the appearance of this hill continues the same from whatever point is is viewed. POBT SAUNDERS AND HAWKES HARBOUR. These, are situated within,

and to the eastward of Ingretiachoix Bay.

Keppel Island lies at the entrance of Ingrenachoix; and though at a distance it ap pears joined to the main land, yet there is a passage on either side of it. In sailing into Port Saunders, the island will be left on the starboard side, and when you are is mile within the entrance, anchor in 12 or 14 fathoms. Vessels proceeding to the he of the harbour must keep the port shore on board, to avoid a ledge of rocks that her nearly in mid-channel. Port Saunders is considered the best harbour for vessel bound to the southward.

The entrance to Hawkes Harbour in the southward of Koppel Island. The star-board shore is shoel, and has a band-bank, stretching along the land; and running out two-thirds of the passage over, a great part of which dries at low water. The course in is E.S.E., keeping nearer the island than the main, until the castern end of the former, a low sandy beach, bears N.E. by N. or N.N.E.; then steer S.S.E. + E. for a small island you will see situated farther up the harbour ; keeping the port shore well on board, run direct for this island, and when you have brought the point, at the south entrance of the harbour, to bear N.N.E. + N., and are at the S.S.E. point of a bay on the starboard side of the harbour, you will then be beyond the shoal ground, and may the bar including the starboard side of the starboard side of the starboard side of the harbour, you will then be beyond the shoal ground, and may anchor ine 12 fighoms water; or else run within half a mile of the small island, and anchor there, which will be more convenient for both wood and water. This is the best harbour for ships bound to the northward. The land round about these barbours is generally low and covered with wood. You may ogsistionally anchor outside these, in the Bay of Ingrenachoir, according as you and the prevailing winds.

POINT RICH, in lat. 50° 40' 10" N., is the south-western point of a peninsula, which is joined to the main by a very narrow neck of land; it is everywhere ef moderate height, and projets farther to seaward than any other land on this side of Newfoundered. The first fram thence, each way, takes an inward direction. Asserting Faint film, on its northern side, you will meet with Port au Choix, mand, but yet equable of familying a ship of burthen, mooring head and stern; to any head to be a shall be a ship of burthen, mooring head and stern; to

sail in you should keep the starboard shore on board, and anchor just above a small inland lying in the middle of the hapbour. In this place, and also, in Boar Cove, which lies a little to the north-eastward, there are averaging and places or drying fish.

Old Post au Charl lies to the castward of Boat Cove; it is a small but safe harbour, having at its entrance an island, named Harbour Island, and on its western a rocks above and under water. There is also snother island fying E.N.E. 1 N., dis-tant nearly a mile from Harboll' Island, about which are several rocks, some of which stretch out towards Harbour Island, thereby rendering the privace between them very narrow. There are 4, 0, 6, and Thithoms wear between Savage Island and the

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main, and 4 and 5 fathoms between Savage Island Rocks and Harbour Island, and mearly the same depth between Harbour Island and the western shore.

To sail into Old Port au Choix, on the western side of Harbour Island, you must keep the island close on board; but to go in on the eastern side of the island, give the north-castern point of the island a berth, and having well entered, you may anchor anywhere on the port side of the harbour, only avoiding the starboard side, for a shoal of sand and mud rune all along it.

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EAT OF ST. JOHN.—This is all open and extensive bay, bounded by Point Riob to the sonthward, and Point Ferolle to the inorthward, having several islands within it, and some surken rocks. The largest of these islands is St. John's, about a miles in length, and 14 broad, and lies E.N.E. distant 04 miles from Point Rich; on its south-western side is a small harbour, well calculated for the cod-fisher, but too much exposed for shipping, as south-westerly winds commonly drive in a heavy laland, vessele may lie much more secure, in 14 or 16 fathoins water, and alfeltered hay. West from St. John's Island, a large mile, is Flat Island, having a rock above 18 to 25 fathoms in it, and the shores are both bold to. The Twin Island is M.E. by N. from Flat Laland, distant a league, and have no danger about them. To the westthey have deep water around them, in no and orage. At the bottoms of the bay they have deep water as the little river of Castors, the outrance to which is land, there is the suite are several scattered rocks above water, named the Bay Islands is they have deep water around them, but no anoliorage. At the bottoms of the by the land is very high, and there is the little river of Castors, the outrance to which is hay a rocky aboal extende all the way to Point Ferolle, stretching out 3 miles from Cangerous and shallow, therefore seldom frequented. From the northern point of this they about perform the state at the way to Point Ferolle, stretching out 3 miles from

POINT FEROLLE lies N.E. by E. ‡ E. from Point Rich, distant 22 miles; it is of moderate beight; and joined to the main by a narrow neck of land, which divides seen from a distance. Its northern shore is bold-to; and this part of the coast will mountain lies from the adjacent table land of St. John's, the west end of which S.E. 18.

New Ferolle Bay is a small cove lying to the eastward of the point, and is quite flat all over, there being not more than 2 and 3 fathoms at any part. It is quite open to the northerly winds, and has a stars on each side of it. It is quite open to

the northerly winds, and has a stage on each side of it, with plenty of room for others. ST. MARGARETS BAY is large, and has several islands, within it also various inlets or coves, affording good anohorage, particularly on its states warious the best situation for ships, being most clear of danger, and convenient for wooding and watering. On its banks are spruce and fir trees in plenty, and many rivulets of Fesh water. Dog Island, which is only an island at high water, is to the eastward of Point Ferolls fully 5 miles, being bigher than any land near it; it has the appearance, When seen from the eastward, of an island situated at some distance from the main. OLD FEROLLE.—Ferolle faland lies about 5 miles to the eastward of Dog Island. This island lies parallel to the shore, and forms the harbour of Old Ferolle, which is near and and asis, the bast entrance to it is at the S.W. and of the island.

OLD FEBOILE —Ferolie Zeland lies about 5 miles to the eastward of Dog Island. This island lies parallel to the shore, and forms the harbour of Old Ferolle, passing to the southward of a small island in the entrance, which is bold-to. As soon Island, in 8 or 9 fathoms, good ground, quite land/locked. There is also good anchor thereof. There are some little island, and a good channel up to the N.E. and on the outside are some ledges of rocks, a small distance off. BAY OP ST. GENEVIEVE. —From the porth and de farmle value de St. Gana-

BAY OF ST. GENEVIEVE — From the north end of Ferolle Island to St. Geneivere Haad the course is E.N.E. 44 miles; and thence to the west end of Currant Island it is north-eastward, about 3 miles. There are several small islands lying in and before this bar, only two of which are of any considerable extent. The beforementioned Currant Island is the northernmost of the two, and the largest: it is of a built, but not high; and when you are to the E.N.E. of it, the western point will appears The other, named Gogeberry Island, lies nearly a mile to the sonthward of it, and its west point bears from the west point of Currant Island S.S.W. § W. pearly a mile,

r Island, and

nd, you must land, give the may anchor ie, for a shoal

led by Point veral islands John's, about Point Rich ; i-fishery, but o in a heavy ad One Head ad sheltered in the whole rock above and has from . N.E. by N. To the west-Bay Islands : the bay the to which is point of this miles from

miles; it is nich divides sland when e'coast will d of which astern lend

nd is quite lite open to for others. leo various e, which is or wooding rivalets of astward of ppearance, rd of Dog Id Feroile the island. As soon of Ferolle od anchor-N.E. end and; and

St. Gene-Currant s lying in he before-It is of a Il appear . nd white. t, and its y a mile.

CAPE RAY TO CAPE NORMAN.

Gooseberry Island has a cross on its S.W. end, from which point a ledge of rocks stretches out nearly half a mile to the southward ; there is also a shoal about half a mile to the W.S.W: from the S.W. point of Currant Island. The best channel into this bay is to the southward of these islands, between the rocks which stretch off them and a small island lying S.S.W. from them near to the south shore. In this channel, which is very narrow, there are not less than 5 fathoms at low water; and the course in is E. by S. southerly, until you come the length of the before-mentioned island: passing which, you should haul to the southward, and bring St. Genevieve. Head between the small island and the main, in order to avoid the Middle Bank. You may either anchor behind the small island, in 5 or 6 fathoms water, or proceed for they with the said mark on, until the S.W. arm is open, and another in the middle of the bay, in 7 or 8 fathoms water. Wood and water may be procured here. There is tolerable good anchoring in most parts of the bay; but the snuggest place is the S.W. arm; the entrance to it is narrow, and has only 4 fathoms at low water. In coming into the bay, if you get out of the channel on either side, you will shoalen

your water immediately to 8 or 2 fathoms. BAY OF ST. BARBE.—From the west end of Currant Island to St. Barbe Point the bearing is E. by N., 25 miles; and from St. Barbe Point to Anchor Point Point the bearing is E. by N., 25 miles; and from St. Barbe Point to Anchor Point it is N.N.E., nearly 14 miles. Between them lies the Bay of St. Barbe, which runs in S. by E. about 2 miles, from Anchor Point. To sail in, give Anchor Point, and all the east side of the bay, a good berth, to avoid the sunken rocks which lie along that shore; you must be well in before you can discover the entrance into the harbour, which is very narrow; then steer south, keeping in the middle of the channel, and anchor as soon as you are within the two points, in a small cove, on the west side, in 5 fathome water, on sand and mud, quite land-locked. Near this place branch out two arms, or rivers, one named the South, and the other the East; the latter has 8 fathoms a good way up, but the former is sheal. Between the S.W. point of the bay and the a good way up, out the barbour is a cove, wherein are sunken rocks, which line little with: out the line of the two points. In the open bay are 7, 8, or 9 fathoms; but the N.W. winds cause a heavy sea to fall in here, which renders it unsafe. From Anchor Point to the extremity of the Seal Islands, the course is N.I. league. Off Anchor Point a ledge stretches W. by S. about one-third of mile. There are no other dangers between it and the Seal Islands but what lie very near the shore. The Seal Islands are white and rocky, and must be approached with care on their north and western sides, because there are some sunken rocks near them. From the N.W. Seal Island to the N.W. extremity of Flour Ledge, it is N.N.E.

nearly 2 miles; part of this ledge appears at low water, and there are 10 fathoms close on its off-side. From the porth part of Flour Ledge to Grenville Ledge, the bearing is E. by S.

about 13 miles. Grenville Ledge lies about two-thirds of a mile W. by N. from the eastern point of Mistaken Cove, between which and Seal Islands lie also Nameless Cove and Flour Cove, neither of them being fit for ships. SAVAGE COVE.-Close to the eastward of Mistaken Cove is Savage Cove, which

has a little island in its entrance, and is only fit for small vessels and the Sandy Bay lies 2 miles castward from Savage Cove; here small vessels may are a 3 or 4

fathoms water, with the wind from E, to S.W. About E.N.E. 5 large miles from Sandy Bay, is Green Island ; between them, at 8 miles distant, W. 1 S. from Green Island, is the north extremity of Double Ledge, which extends nearly two-thirds of a mile from the shore, and has only 8 or 9 feet water on it. Green Island lies about three-quarters of a mile from the main, is twothirds of a mile in length, very low and parrow, and agreeable in colour to the name it bears; from the east end of it a ledge of rocks extends three-fourths of a mile to the easterned, on which the see breaks in bad weather. There are 4 or 5 fathoms water affects channel between the island and the main, where ships may allehor, if ne-received to go in from the weetward, keep the island elose on board for the depent water, which is a fathoms; and going in from the eastward, keep the main on board From this island to the opposite part of the Coast of Labrador, named Castles of Red Cliffs, the bearing and distance is about N.N.W. and S.S.E. 31 leagues. Hereabonts is the narrowest part of the Straits of Belle Isle.

From Green Island to Boat's Head the bearing is E. ; N. 8 leagues ; between there are head is a Cove, named

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CAPE RAY TO CAPE NORMAN.

Boat Harbour, where small vessels and boats may lie very secure, except with N.E.

Cape Norman Cape it hiles from Boat's Head, and is the northernmost point of land in Norman Cape and the Strait Sound is the northernmost point SOUND STRAIT OF BELLE ISLE, &c. In crossing the Strait

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SOUND and the straight STBAIT OF BELLE ISLE, do.—In crossing the Strait of Belle and the address of the Strait to 30, and a soundings will be irregular, from 20 to 30, and a some places from 30 to 39 fathoms. In the stream, or middle of the strait, the will find 25 and 30 fathoms, coarse sand and broken shells, and towards Onteen Bay 45 to 80 fathoms; within a mile of the Labrador Coast are 35, 30, and 25 fathoms. To the northward, between Belle Isle and St. Peter's Bay, there are 59, Control Base and 30 fathoms.

Captain Bayfield says .-- "The state in the strait are so irregular that they afford very little assistance to the state of a night, or during the fogs which so frequently prevail. In general the deepest water is on the Labrador side, as for instance, from York Point to Red Bay, where, however, it is interrupted by the shallow water of Wreck Bay. It is also very deep on that side, from Black Bay to Forteau Bay inclutive; but the line of deep water is not direct, nor, I believe, continuous through the dangerous Flour Ledge on the Newfoundland side, opposite Forteau Bay, as in any 70 to 20 fathoms, and the nature of the bottom is as various as the depths, being sometimes of rock, and at others of sand, broken shells, pieces of coral, or gravel. Fogs occur with all southerly and easterly winds, and they are frequent likewise with the S.W. wind; it is only when the wind is from between the north and west, that Near the show on action with the size from between the north and west, that

Near the abores on either side there is usually a regular alternation of floed and ebb in fine weather, but it is not obstant. The flood comes from the northward along the coast of Labrador, and also from the S.E., from Cape. Bask to Cape Norman. The latter stream, I have reason to believe, is often turned of to the morthward by Cape Norman and the same thing takes place at Green Island, on the Newfoundland is more rest, at times, a stream running from the S.W. for several days together, along the rest coast of Newfoundland. This stream cocasionally sets from Point with N.E. winds, the current runs directly in an opposite direction along the west constancy either in the rate of the equality freqular ourrents, in a manner which it is account of Newfoundland, from the S.W. for several days together, along the rest coast of Newfoundland. This stream cocasionally sets from Point with N.E. winds, the current runs directly in an opposite direction along the west constancy either in the rate of the equality freqular ourrents, in a manner which it is actremely difficult, if not impossible, to calculate upon with any degree of certainty. The prevalent internet from the northward comes from between Belle Isle and the many icebergs fitto the strait, and frequently entrying them through it many miles on a lange of these bergs ground in deep water, whilst others are continually changing their position. They are much more americus in some seasons than in August in one year; whilst there were not appresent to be forentiat in the month of August in one year; whilst there were not appresent the balf-a-dormato between it the some month of the following season.

month of the following season. I have observed this ourrent from the aerthward and easward assisted by the M.E. wind, running 3 miles an our, whiles at other times it was almost insensible. It is even reported that there is meetings a surrant in the opposite direction, and I believe that this report of the meetings a surrant in the opposite direction, and is remning to the westward, thousand the Colf. At the same time that this ourrent is the eastward on the Newfound and side, especially during the ebb tide. *Navigation of the Strait at Night*.—From these remarks it will plainly appear mights *Wring which no vessel should attempt to run through*; for I have found that, under such circumstances. On the approach of a dark or foggy uight, therefore, it would be prudent to anchor in some one of the bays in the north side of the strait, rather than continue under way. A vessel bound in to the Gulf, and running with

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r that they frequently tanee, from Bay incluhrough the niles of the se iu any een 60 and oths, being or gravel. ewise with west, that

flood and rard along Nórman. thward by foundland t. There together, rom Point especially the west here is no irregular which it certainty. and the bringing any miles ntinually s than in month of the same d by the

sensible. on, and I ebb tide, urrent is ag out to

appear or foggy nd that, 10 miles refore, it e strait, ng with

YORK POINT TO SANDWICH BAY.

an easterly wind, will, however, find no place fit for that purpose until she arrives at Black Bay, and that is not a very good anchorage, for Red Bay cannot be entered by a large vessel with an easterly wind. Loup Bay is the first good anchorage under such circumstances, and there the vessel would be so far advanced in her run through the strait that it would not be worth while to stop, since she might easily clear everything in the remaining short distance. But with a S. W. wind, at the approach of night, and appearance of a fog, a vessel bound out through the strait to the eastward had better stand off and on under easy sail, tacking by her deep-sea lead from the Newfoundland eide till morning, if she be not farther to the eastward than Point Ferolle. If she be farther advanced, she had better endeavour to make Forteau Bay before dark, and anchor there for the night. In light winds or calme, during dark nights or forgy weather, it is better to bring up with a stream anchor anywhere in the strait than to drive about with the tides, without knowing whither, but then a look-out must be kept for drifting icebergs."

PART II.

COAST OF LABRADOR.

YORK POINT TO SANDWICH BAY.

YORK POINT in long. 55° 55' 30" W. forms the west point of Chateau Bay; it is quite bold, and so is Chateau Point to the westward, but has sheal water 50 fathoms off it to the S.E. To the N.W. of the point is a ridge of high land named the High Beacon, estimated to be 959 feet above the sea at high water. York Point may be considered to be the north point of the eastern entrance to the Strait of Belle Islaw-CHATEAU or YORK BAY lies about 19 miles N.W. 3 N. from the southmetern part of Belle Isle, and 27 miles N. 3 W. from Quirpon Harbour, and may be

by recognized by its position with reference to the remarkable Table Head and the start Islands; by the high land in its rear; and by there being a straight and two wall sided and flat-topped hills, 200 feet high, situated upon Castle and Healey Islands, which lie at its entrance. Within the bay are Healey, Antelope, and Pitts Harbours, the two last of which are perfectly secure, and fit for the largest vessels. The principal entrance to Chateau Bay is between Chateau and York Points, the latter tance of 14 miles to the northward, is While Island in the entrance, at the distance of 14 miles to the northward, is Whale Island in the entrance of the discoccasionally moor on the west side, just within Temple Par the south entrance to and stages of the fishermen. On the north wide of Whale Island, there are huts fathoms wide, with a clear navigable channel of 100 yards with a depth of 4 fithoms.

Henley Harbour, formed by Stage Island, is fit only for small vessels, although there is a depth of water of from 4 to 6 fathomd. It is a quarter of a mile long by cable's length wide, and its only navigable entrance faces the south, in which direction are the baselt columns of Castle Island. Some swell rolls in with south-west

Antelope Harbour is on the east side of the bay to the northward of Henley Island, and between the latter and Barrier Point, which, with its reef, separates it from Pitt's Harbour to the northward. The passage leading into both these harbours is between Stage and Henley Islands to the eastward, and to the westward, Whale and Flat Islands. The sheal water extends off to the westward of Stage Island 160

YORK POINT TO SANDWICH BAY.

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fathome ; and off to the eastward of the south-east extremity of Whale and Flat / Islands 100 fathoms. Besides these, there are three small ledges, the first and outermost of which, with 2 fathoms on it, lies exactly in a line from the west extreme of Chateau Point to the east extreme of Whale Island; and with the south extreme of the Seal Islands seen through the narrow channel between Castle and Henley Islands, bearing E. 4 N.; the second, with 3 fathoms on it, lies 160 fathoms from the east side of Flat Island; and the third, with only 9 feet, lies between the east extreme of Whale Island and Black Point, the north-west point of Henley Island. Off Black

Point is the Black Rock, small and low, but always above water. Pitt's Harbour is very superior to Antelope Harbour, being sufficiently roomy to accommodate a large fleet, and well sheltered from all winds. It is a mile long by three-quarters of a mile broad, and has a depth of 18 fathoms in the centre, decreasing gradually to 4 fathoms close to the shore on either aide; the bottom is of mnd.

To enter Antelope and Pitt's Harboure, bring York and Chateau Points in one, N.N.E. & E., and run in on this course, which leaves the first ledge 50 fathoms to the right, till you arrive between Flat and Stage Islands, leaving the second ledge on the left; haul a little to the northward, and pass close to the westward of the Black Rock, and rounding it to the eastward, you enter Antelope Harbour. To enter Pitt's Harbour, as soon as Black Rock bears East, change your course to N.W. by N., or keep the south-west extremity of the basaltic columns of Henley Island open to the westward of Black Point, and you will clear the Barrier Reef, leaving it to the eastward. Continue to run on this course or leading mark until the east extremity of Whale Island and the west extremity of Chateau Point, on Castle Island, come in one, bearing S. \ddagger W. Then change your course to N. \ddagger K., or, so as to run up the harbour, with the last-named marks on, and you will clear the shoal water extending 50 or 60

fathome off Pitt's Point, and may anchor where you please. About a mile to the eastward of Henly Island is Seal Island, and about 13 miles further is Duck Island; the space between is named Bad Bay, a place, as its name imports, of no anchorage. It is open to easterly winds, and in it there are rocks both above and under water.

above and under water. The St. Peter Islands are a cluster of barren islets, with many rocks above and under water scattered about them, lying about S.W. 3 Wiles from Table Head. The easternmost of the group are called the Peterel Islands, because those birds breed on them. Within these islands, in the main is St. Peter's Bay, affording indifferent anchorage although useful in cases of necessity. It is completely open to the S.E. Nearly 200 fathoms to the westward of the innermost islet is a 3 fathom shoal, and a meter of Point Pater the south mining the life is a 3 fathom shoal, and a Nearly 200 fathoms to the westward of the innermost falet is a Stathom shoal, and a rest extends off Point Peter, the south point of the bay, 160 fathoms towards the south-east." The anchorage is three-quarters of a mile from the head of the bay in . Table Head, to the N.W. of the Peterel Islands, is very remarkable, being an iso-lated mass of basaltic columns upon sandstone, (flat at top, and precipitous all round.) the summit of which is 900 feet above the sea. To the eastward of it is Truck Island; to the N.E. of Truck Island is White Mice Cove, fit only for bats.

Camp Bay is sheltered towards the N.E. by the Inner and Outer Camp Islands In the bay are three small islets, and a rock, awash, 162 fathoms to the south castward of the outermost. The Inner Camp Island, about 300 feet high, and three quarters of a mile in diameter, is separated from the south point of Niger Sound by a boat channel in which are fishing stages and buts. The Outer Camp Islands, 14 miles long, are not quite so high, and are also of bare granite; they are separated from the former by a channel 200 fathoms wide, and clear of dauger. On the west side of the islands is a small cove used by the fishermen, who moor to the rocks, but are unprotected from the south-west winds.

"NIGER SOUND is to the north of the Camp Islands, between them and Cape St. Charles." It is about 11 miles wide, runs up about 6 miles, and contains several places of good abeltar. About 21 miles within the entrance is Niger Island, about 11 miles in extent, and to the southward of this is Smooth Island much smaller and lower. The channel between these islands is unsafe, but you may pass north and south of them without danger. Good anchorage is to be found in Horn Bay at the head of the Sound, and also in Islet Bay, north of Niger Island. ST. CHABLES HABBOUR. - Cape St. Charles, on the north side of which is the

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harbour, may be readily known by the round hill of the same name, 654 feet high, bearing N.W. by W. 650 fathoms from the cape, and which is the highest land on this part of the coast. The harbour may also be known by St. Charles Island, situated a long mile off the cape to the S.E. by E., which is high and about half a mile in length, with several large rocks close off its inner side; outside of it is Low Island, to the south-west of which about one mile, is the situation of a reported danger. Between these islands and the cape is a clear navigable channel.

The harbour is formed by three islands, which ile along the east side of the cape. The space in which vessels anchor is about 600 fathoms long by 280 fathoms wide; and the depth is from 5 to 12 fathoms on mud. South-east winds bring in some sea, on which account it is not considered a very secure harbour for large vessels, excepting in the finest months of summer. The south-easternmost island protecting the harbour is Fishflake, between which and the main small vessels may be perfectly secure in 9 to 10 feet water, by making fast to the rocks, but this channel cannot be made use of as an approach to the harbour, being too shallow to be serviceable. Blackhill, which is high, black, and precipitous, is the next island, and Spafe Island is the innermost. The channel out of the harbour to the N.W. of Spare Island, is intricate, and only fit for boats. The entrance into the harbour is between Fishflake land appears like the extremity of Cape Charles, and bears E. by S. 11 miles from St. Charles Hill. When running for the harbour, steer for the insteast side of Fishflake Island, so so to pase its south-east extremity at the distance of a side of Fishflake Land, so as to pase its south-east will take you through the entrance between Fishflake and Blackhill Islands, into the harbour is clear of all danger. There are three small rocks above water off the N.W. point of Fishflake, but they are bold to; as are also the shores on either side.*

St. Charles Channel is between the main and Caribou, Size, and Muddle Islands; it contains deep water, with no detached shoals. The course up the centre of this fine channel to the Narrows, is N.W. § N. 8. miles. A run of half a mile North, through the Narrows, leads into the channel, between Muddle Island and the main, which is deep, and free from all dangers. The course through this channel to the mouth of St. Charles River is N.N.W. 13 miles; and a vessel may either run up that bay to the westward, or through Muddle Channel esstward, into St. Lewis Sound. St. Charles River runs East, and is nearly a mile broad, but about 2 miles up it becomes narrow and intricate. Wood and water may be had in abundance up this inlet.

ST. LEWIS SOURD.—The north point of St. Lewis Sound is Cape St. Lewis, in lat. 52° 21' 24" N., and long. 55° 41' 23" W.; it is composed of precipitous, dark red granits hills. At its southern extremity is a small rocky peninsuls, and nearly a mile to the eastward of this is St. Lewis Rock; close to the abore.

The Sound is about 4 miles wide at its entrance, between Cape St. Lewis and North. Battle Island, the bearing between which is S. by W. $\frac{1}{2}$ W. It is about 8 miles long in a N.W. by W. direction, from its entrance to Telegraph Point at St. Lewis Inlet. The shores are for the most part quite bold, and the water is everywhere extremely deep, often exceeding 60 or 60 fathoms. Nearly in the cantre of the Sound are the Middle Rocks, and farther in the River Islands. In the fall of the year, a heavy ground swell called the undertow, sometimes rolls into the Sound from the castward, as far as the entrance of the Inlet, which comes in tremendous waves, often without wind, and bursting grave filets 80 feet high, proceeds with irresistible force against the sides of the predipter. At is, however, not so dangerous to boats as the short breaking sea of the Gulf, and it discovers shoals, as everything with less than 4 fathoms on it is sure to break.

On the north side of the Sound there is a small cove, named Fox Harbour, at 14 miles N.W. from Cape St. Lewis, which affords secure anchorage in 5 to 6 fathoms, muddy bottom. The east point of the harbour is low, with several fishermen's houses on it, and has a small rock to the northward, joined to it by shoal water, which must be left about 50 or 60 fathoms on your right, to avoid a reef, partly above water, which rune off the south-west extremity of the point separating the harbour

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• St. Charles and Battle Harbours are the principal fishing stations on this coast,

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Deer Harbour to the westward of Fox Marbour, is protected from southerly winds by Marnham Island at the entrance, which breaks the fairway into two channels. The principal passage in is to the westward of the island, and has 19 to 31 fathoms, and hold-to to the rocks on either side; the other channel is only fit for boats. There are no dangers which cannot be seen; and the harbour will accommodate any number of vessels, which can beat in or out with facility.

Open Bay to the south-west of Deer Harbour, affords good anchorage near its. head, but exposed to the S.E. The water, like that of Deer Harbour, is deep.

ST. LEWIS INLET.—The south point of Open Bay has off it some rocks above, water, named the Black Reef, between which and the Biver Islands is the entrance to. St. Lewis Inlet, of nearly a mile in width. The depth is generally above 30 fathoms, is othat there is no good anchorage until at Black Fly Island, 9 miles from the entrance, under the west side of which there is good riding in 5 to 9 fathoms, on a bottom of mud and stones; here wood and water may be readily obtained. Above than 16 feet 04 miles farther up. Above Black Fly Island is Wood Island, about a this the navigation is intricate, but it is possible to take a vessel not drawing more mile in length. When running for the Inlet, steer N.N.W. 4 W. 23 miles from the about 40 feet high.) and having given them a berth of two or more is bles on your bare, with shoal water a short distance off their east ends) will be about 400 fathoms changel to the northward of the River Islands, which is three-quarters of a mile wide, and change your course now to N.W. by W. 4 W. and runain through the and change, except two small islands which must be passed to the southward at the distance of a cable.

The River Islands, forming the south side of St. Lewis Island, consist of Kalmia, Pocklington, and the Seal Islands. The former two are of bare granite, about 150 feet high. Off the east side of Pocklington Island are several small islets, the east ermonst of which are the Seal Islands; and there is also a small sunken rook off the south-east end of the same island, at the distance of a quarter of a mile, upoff which the sea usually breaks. Between these islands and the main, to the westward, it is possouth-east end of the same island, at the distance of a quarter of a mile, upoff which sible to anchor, though the depth is great, exceeding 30 fathoms, with a muddy bottom within the River Islands, in the main, is Fall Harbour, a little place fit only for fathoms. To the eastward of this is Cutter Bay, fit only for small vessels, with inferior riding and exposed to the eastward; the depth is three exposed to be of much service; from hence the coat runs to the porth-eastward 2 miles to Cape Club, off which a reef extends 70 fathoms to the water, but is is not advisable E. from the cape are the South Middle Rocks, above the water, but is is not advisable can be seen.

On the south side of St Lewis Sound are Battle, Caribou, Muddle, Size, and Serie Islands, among, and within which, are some good harbours. Muddle Jiarobotr is a mug little harbour periods and and the good harbours. Muddle Jiarobotr is a mug little harbour periods and the north-west extreme of Great Caribou Island, which may be kept close-to and steer from it S.W. by W. one mile, to the narrows of Caribou Channel, between the south-east end of Surf Island, and the nerve of Great Caribou Island, which may be kept close-to and steer from it S.W. by W. one mile, to the narrows of Caribou Channel, between the south-east end of Surf Island, and the nerve of Great Caribou Island, which may channel, between the south-east end of Surf Island, and the nerve of Great Caribou Caribou; then proceed for 600 fathoms towards the north-west between Surf and the south-east is a mide channel, then haul in to westward, and and the south-east island is form the south-west and north-east, of the coast of Labrador. The Ribh morth reef bears East 14 miles from North Battle Island; the set alway breaks on them, and vessels ought to pass outside of them. West of the free west of other; the them, and vessels ought to pass outside of them. West of the free is Great Caribou field of the set alway breaks on the and vessels ought to pass outside of them. West of the free is Great Caribou open to seaward, and there are mercer listed is and rocks and north-east is of the torken into coves open to seaward, and there are mercer listed is and rocks and north east is a list of the set Caribou is the seaward, and there are reverselisted is a mile of the set alway breaks on the seaward, and there are mercer listed is a mile of the seaward, and one tanken,

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V.N.W. 4 hich may f Caribou of Great Sturf, and st fterwards se. The Island is Island is the Ribh her; the reaks on Caribou

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the Foam Rock, which is the only danger between Battle Islands and the Great Caribou.

Battle Harbour is between the Battle Islands and the east end of Great Caribou. It is only fit for small vessels, being about 30 fathoms wide in the entrance, 70 or 80 fathoms wide within, and half a mile long. It is generally crowded with the vessels and boats of the fishermen, which moor to the rocks on either side, and the shoresare covered with their houses and stages. There is a good house and store on Signal Island with a high flag-staff which may be readily seen at see, and from which the island derives its name. The south entrance is only fit for boats; vessels must therefore approach from the northward, passing to the west of the North, Battle, and the islands lying between it and Signal Island. There are two small round islets, the southernmost in the entrance of the harbour; these may be passed close on either side. This harbour is secure during the summer months, but is unsafe in the fall of the year, from the heavy ground swell before mentioned.

ST. LEWIS CAPE has been previously mentioned. Just round the cape is the entrance of a small cove, named Deepwater Sound, which runs in S.W. 5 W. for half a mile, and is very marrow, but has from 20 to 40 fathoms within it.

a mile, and is very narrow, out has from zo to av manoins wright it. PEITY HARBOUR.—From the northern part of Cape St. Lewis to the south head of Petty Harbour Bay, the course is about N.N.E. [2], distant 14 miles; the shores are bold and lofty. The entrance is 14 miles wide; and the north point bears from the southern point N.E. by N. The bay runs up nearly N.W. by N., fully a mile, having from 20 to 40 fathoms water in it. At the bottom of the bay is the harbour; the entrance to which is to the northward of a low point of land, shutting the harbour in-from the sea, so as to make some difficulty in distinguishing its situation; it is not above 50 fathome broad at the entrance, with 6 fathoms mid-shannel, and 8 towards the sides; but this narrow passage continues only a short way. Having passed through the passage the harbour opens, wide, and vessels will have plenty of room, and may anchor in any part, in from 7 to 12 fathoms, land-locked. From the north head of Petty Harbour Bay to Boint Spear, the course is N.E.

From the north head of Petty Harbour Bay to Point Spear, the course is N.E. 1 N., distant 24 miles; and from Cape Lewis to Cape Spear, the course is N.E. 2 N., distant 24 miles; and from Cape Lewis to Cape Spear, in nearly the same direction, 6 miles; between the former points are Barren Bay and Spear Harbour. Barren Bay is a little to the northward of the northern part of Petty Harbour, Barren Bay is a little to the northward of the northern part of Petty Harbour Bay, and afterds no shelter; but Spear, Harbour, which lies to the southward of Point Spear, is a very excellent harbour. In coming from the northward, and making Point Spear, you will goen two jalands, in the bottom of a small bay, between which is the best passage into Spear Harbour. Keep the northern island close on board, there being 4 fathoms alongside of it; and after you are about a cable's length there is good room to moor. Small vessels may go on either side of the islands, the least water being 2 fathoms: but it should be observed that in coming from the southward, you will only be able to distinguistione Island, for the other will be shut in with the land, sp.as not to be seen until you get within the heads.

in with the land, so as not to be seen until you get within the heads. SOPHIA, CHARLOTTE, AND MECKL NBURGH HARBOURS.—From Point Spear to the entrance of these three harbours the course is N.W. by N. about 3 miles, passing several small but high ideads lying within half a mile of the short 3 miles, commonly named the Spear Islands, and are bold to, with channels between them of 20 fathoms water. N.E. by E. J. E. from the southern head of the shore to the three barbours, lie two small islands, close together, and therefore named the Double Island, which appear to be as high as they are broad. About a cable's length to the eastward of them are two sunken rocks, over which the sea, in bad weather, constantly breads. Meally in the middle of the entrance, also, are two islands of lose to each other as to seem but one; these are steep-to, and ships may pass on either aide of them, in 12, 13, and 14 fathoms, anchoring within them, in Queen's Road, in 16 fathoms; but to tho southward of, these islands you will find the widest passage, and most room for ships to work out.

The first and southernmost of these three harbours is Sophia Hasbour, running in S.S.W., about 14 miles, with from 10 to 15 fathons water; it then trends away, round a low point to the eastward, and becomes much broader; is is thence shoel water, and only fit for small reserve

Port Charlotte is the middle harbour, and fit for any ship ; there is a low flat island on the starboard side of its entrance, from which a reaf of rocks extend pre-third of

YORK POINT TO SANDWICH BAY.

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the channel over, to avoid which you must keep the southern side on board : you will then have 9 fathoms close to the shore, until you get a quarter of a mile within the barbour, when you may anchor in any part, in from 12 to 17 fathoms, only giving the starboard side a berth, to avoid a reef that lies on that side.

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Mecklenburgh Harbour, the northernmost of the three harbours, runs in N.N.W. 1 N. and N.W. by N. about 2 miles; in the lower part of it there are 20 fathoms, but as you advance the water lessens, so that in the upper part there are 20 fathoms, but as fathoms for ships to moor in. To sail up to the head of the bay, you must keep nearer the port side, in order to avoid the ledge of rocks lying on the starboard, about 80 and above the low point on the starboard side. The best anchorage is at the head of the harbour.

ST. FRANCIS HARBOUR.-From Point Spear to Cape Francis the course and distance are nearly North, 6 miles, and from the islands at the entrance of the three harbours, just mentioned, to Cape St. Francis, N.E. 4 N., about 5 miles; nearly half a mile to the westward of the cape is St. Francis Harbour, a snug and secure harbour, though small, and generally filled with vessels during the fishing season, considerables fisheries being carried on in its vicinity. There are two entrances to this harbour, one being to the northward, the other to the south-westward of Pigeon Island, which lies directly before its entrance; the south eastern channel leads to a small but narrow inlet, named Round Harbour; everywhere there is clean ground, with 10 fathoms in the channel as you enter, and the depth gradually decreases as you advance towards its head, where you have 5 and 3 fathoms. In entering to the south-westward for St. Francis Harbour, you should beware of, and give a berth to, the western side of Pigeon Island, for a rocky reef runs off it; proceed on N.N.E.' N., and having got fairly between the two points of the harbour, you will perceive on your starboard side a small white rock, to which go not nearer than 7 fathoms ; steer up North, and having passed midchannel, or rather nearer the starboard shore, the rocks above water, which you will see on each side of you, turn westerly, and anchor in 4 or 0 fathoms. Small vessels go to Birnell's Beach, or, up to the cove at the northern extremity of the harbour. chantman Harbour is about 2 miles W. 1 S. from St. Francis Island ; it is small, but has from T to 15 fathoms water.

Cape St. Francis is the eastern point of an island, between which and Gramby Island is a very narrow passage for boats, with 4 fathoms water, within it. From this cape, in between it and Jasper Islands south eastern point an opening leading into Indian Bight and Shoal Tickle, two harrow coves, the latter of which is shallow, and with only 2 and 14 fathoms water in it. To the northward of Indian Point are Hare and Fox Islands, Bight to the channel, you will have deep water, but when you enter the passage it will shallow to 5, 4; 3, and 2 fathoms; this flat will continue for a quarter of a mile; you in this place on the western side of Hare Island, or rounding the northern end of Fox Island, run through Pearce's Tickle into Sealing Bight.

SEALING BIGHT is a very commodious and convenient place for the fisheries. The best anchorage is in the northern part of the bay, to the westward of Jasper Island, where you may safely ride in 8, 10, or 11 fathoms, or farther in, with less water. There are several coves, situated along shore, to the northward of this anchorage, affording cotxenient anchorage for small vessels. Fresh water can easily be obtained; but wood Island on one elde, and Hare and Fox Islands on the other; the water is deep, and there is no danger, except a reef stretching out to the south westward from Gull Island, upon which the sea breaks very high in stormy weather; it will, therefore; to avoid this reef, be always frudent to borrow close towards Indian Point, in either stilling in or out of Sealing Bight.

FISHING SHIP HARBOUR.—From St. Francis Island to the northernmost Fishing Island, the course is N.N.E. 4 N., and the distance 3 miles. The Fishing Islands are three in number : the two northernmost are connected by a beach, which, with the main, form Fishing Ship Harbour, where ships may lie land-locked, socure from all winds, in from 14 to 6 fathoms water. The entrance is to the southward, on either side of the southern Fishing Island.

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The best passage will be between the two western islands, that entrance bearing from Hare Island N. by W. . There is no danger in this channel, and vessels may sail right through it, in nearly a N. by W. direction, up to the very head of the harbour; and anchor in 12 fathoms; here there is good room for ships to moor. There are two other passages into this place, one to the westward from the entrance of Gilbert's River, the other to the northward of all the Fishing Islands ; the latter has 7-fathomethrough-

out, but is so narrow that you will have some difficulty in discovering the opening. GILBERT'S RIVER.—Between Fishing Islands and Granby Island to the south-ward is the northern entrance into Gilbert's River ; the southern and widest entrance being between Denbigh Island and the main : there is also an entrance between Denbigh and Granby Islands. The passage in has deep water everywhere. The course of the river is nearly N.W. by N., for about 6 miles; it then divides into two branches, one running N.W. by N., 7 or 8 miles, the other S.W. by W., about 6 miles. Both these branches are full of rocks, small islands, and shoals: but in the middle the anchorage is good all the way up, from 20 to 10 fathoms. This river has also passage out to sea, between Hare and the Fishing Islands.

CAPE ST. MICHAEL .- At 6 miles N.N.E. I.N. from the northernmost Fishing Island, and 16 miles N.N.E. 1 N. from Spear Point, is Cape St. Michael, which is high and steep towards the sea. It lies in lat. 52° 47° N., and besides being high and steep, towards the sea, may be known by a large bay, named St. Michael's Bay, to the northward of it, having in it a number of large and small islands. The largest of these islands, named Square Island, lies in the mouth of the bay, and is 34 miles long;

and very high; its north-east point is a high round hill, and makes in coming from the southward, like a separate island, being only joined by a low, narrow neck of land. OCCASIONAL HARBOUR About 24 miles to the southward of Cape St. Michael, is Occasional Harbour, which may be easily known by the Twine, two large rooks, lying } of s mile outside of the antrance. They are very near to each other, and vessels may pass on either side of them ; the entrance to the harbour is between two high lands, and runs in W. by N. for two miles, then N.W. by N. ; both sides are steep-to, without any dangers; good anchorage may be had, in from 10 to 7 fathoms, about 2 miles from the entrance. The wind between the high land sets right into or out of the harbour.

From Cape St. Michael to Cape Bluff the course and distance are about N.N.E., V miles.

iles. These two capes form the points of entrance to St. Michael's Bay. ST. MICHAEL'S BAY.-The best monorage for small vessels in St. Michael's Bay, is on the south side ; that is, keep Cape St, Michael's shore on board, then keep, along the south side of the first island you meet with, hamely, Long Island, till you are nearly as far as the west end of it, where you may anchor in from 12 to 20 fathoms. land-locked, and may work out to sea again on either side of Long Island.

From Cape St. Michael to the entrance of Square Island Harbour, the course is N.W. 31 miles; in the entrance lies a small is of a moderate height, to the west-ward of which is the best passage into and out of the harbour, there, being only 2 fathoms water in that to the eastward of it.

About a league N.N.W. from Square Island Round Hill, lies the entrance into Dead Island Harbour, which is only fit for small vessels, and is formed by a number of islands. Between these islands and Cape Bluff there is a passage out to sea.

Cape Bluff is very high land, ragged at the top, and steep towards the sea. Cape Bluff Harbour is small, and only fit for small vessels. To sail into it, keep Cape Bluff shore on board till you come to a small island, then pass to the eastward of it and anchor.

From Cape Bluff to Barren Island the course is north-castward, about a league ; and from the south point of this island to Snug Harbour the course is N.W. by W., 14 miles. This is but a small harbour, but in it there is very good anchorage in 26 fathoms water, and there is no danger in sailing in or out. One mile to the northward of Barren Island lies Stony Island ; and within these

islands, in the main, are Martin and Otter Bays, in the northernmost of which is very good anchorage and plenty of wood, and no danger but what shows it alf. DUCK HARBOUR.—On the western side of Stony Island is Duck Harbour, which

is very good for small vessels. Large vessels may anchor between the west point of Stony, Island and Double Island, in 20 or 24 fathoms water, and may sail out to sea again on either side of Stony Island, in great safety. HAWKE ISLAND lies a mile to the northward of Stony Island. Within Hawke

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Island lies Hawke Bay, which runs to the westward 2 leagues, and then branches into two arms, one running to the W. by S., 2 leagues, and the other N. by W., 5 miles; these arms are well supplied with wood. After you are within Pigeon Island there is very good anchorage up to the head of both arms.

On the south side of Hawke Island hes Eagle Cove, wherein is very good anchorage for large vessels, in 30 or 40 fathoms water. Small vessels may anohor at the head in

CAPLIN BAY .-- On the main, within Hawke Island, about 5 miles to the E. by N.

of Hawke Bay, lies Caplin Bay, in which is very good anchorage and plenty of wood. PARTRIDGE BAY lies 43 miles to the northward of Hawke Island. In this bay there is very good anchorage, but difficult of access, unless you are acquainted, on account of a number of small islands and rooks which lie before the entrance. The land bermebout may be easily known, for the southern point of the hay is a remarkably high and barren table hill, and all the land between this bill and Cape St. Michael high, while that to the northward of it is low

SEAD ISLANDS .- From Cape St. Michael to the southernmost of the Seal Islands the course is N.E. 1 N., 9 leagues; and from thence to Bound Hill Island it is about N.E. 114 miles; this latter island is the easternmost land, on this part of the coast,

and may be known by a remarkable high round hill on the western part of the coast, From Round Hill Island to Spotted Island the counter is N.N.W. 3 N., distance 15 leagues. From Spotted Island the land trends N.N.Westerly, and is fronted with numerous islands.

SHALLOW BAY .-- From the southernmost Seal Island to White Book, the course is N/N.E. \pm E., about 5 miles; and from this tock the conrectinto Shallow Bay is W. \pm S., 4 miles. There is tolerably good anchorage in this bay, and no danger except a

small rock which lies off a cove on the port hand, and about one third of the bay over : this rock is uncovered at low water. There is very little wood on the shores of this bay. From White Rock to Porcupine Island the course is N.N.W., distant 2 legues. This island is high and barren, and you may pass on either side of it into Porcupine

Bay, where you will have very good anchorage, but there is little or no wood. SANDY BAY lies on the couthern side of the Island of Ponds, and N. 1 W. 5 miles In it there is very good anchorage in 10 fathome water, on sandy. bottom; but wood is exceedingly searce, otherwise this would be a convenient place for fishing vessels. Between this bay and Spotted Island are a great number of islands and rocks, which render this part of the coast dangerous. SPOTTED ISLAND is high barren land, and may be known by several large white

spots on its eastern side. It is about 8 miles long, and 3 miles broad, and the northern part lies in lat. 53° 25' N. Within this island, to the westward, lies Rocky Bay : you may sail into this hay by passing to the northward of Spotted Island, and between either of the islands that lie before the entrance of the bay. There is no good anchor-age in the bay, the ground being rocky, until you are between Level Point and Eagle Island, where you may anchor in 8 or 10 februar writer, good bottom, taking care to Island, where you may anchor in 8 or 10 fathoms water, good bottom, taking care to Island, where you may another in our to manners water, got to west side of Eagle give Level Point a good berth. The best anchorage is on the west side of Eagle Island, in 8 or 9 fathoms water, muddy hottom. Passing between Eagle Rocks and Duck Rocks, you may borrow on either side to within two-thirds of a cable's length, or, you may run up and anchor on the south side of Narrow Island, in Narrow Harbour, and be handy for wooding and watering. From Spotted Island to Wolf Rock, the course is N.N.E. 1 N., 18 miles. This rock

just appears above water, and is about 10 miles from the main. There are some sunken rocks about it, and several islands between it and the coast.

Indian Island lies 2 miles to the northward of the entrance of Rocky Bay; it is re-markably high land, the western end being highest. Between this island and the main is tolerably good shelter for small vessels, and it appears to be a good place for

SAND-HILL COVE .- About 4 lesgues to the westward of Indian Island lies Sand-Hill Cove (so named from several sand-bills lying on the southern side of the entrance): in this cove is tolerably good anchorage about 1 a mile within the entrance, in 8 and 4 fathoms water, sandy bottom. In sailing into the ve take care to give the north point a good berth, there being a ledge of rotheretching off from the point about a cable's langth, and which runs to the westward along shore for about 2 cables length. TABLE BAY.—The south head of this bay lies 2 leagues to the N. by W. of Sandve take care te give the north . tretching off from the point about

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Hill Cove, and may be known by a remarkable table hill on the north eide of the bay at about S miles within the entrance; this hill may be seen from the Wolf Rock, which lies N.W. 3 N. 74 leagues from the entrance of the bay. In the bay, about 4 miles from the entrance, lies Ledge Island, so named from a ledge of rocks stretching to the westward from the island up the bay for about 2 miles. On the south side of this island is anchorage, in 12 or 14 fathoms water, in what is named South Harbour. or, you may run higher up and anchor in Table Harbour. On the north side of the bay, just within Ledge Island, lies North Harbour, in which is very good anchorage. In sailing up the bay on the northern side of Ledge Island to Table Harbour, take care to keep the main close on board, in order to avoid a rock lying nearly half-way between the north-western extremity of the ledge off Ledge Island and the main.

THE GANNET ISLANDS are a cluster of islands lying from about 7 to 11 miles from the main; the outer one bears N.W. & W., 10 lengues from the Wolf Rock. CURLEW HARBOUR lies nearly S.W. of Gannet Islands, and may be known by a round green island lying before its entrance. The channel into the harbour is be-tween this island and a low point of the main to the southward of it, having a small rock above water, close to the point : there is no danger in sailing into this harbour. The best anohorage for large vessels is about a mile within the satrance, bringing the -small rock off the point of the entrance on with the northern point of Long Island -(which lies about half a league to the N. by W. of Green Island); they will then lie in 14 or 15 fathoms water, good bottom. Small vessels may run higher up, and anchor in 10 or 7 fathoms water. On the southern side of the harbour is a shoal, lying at a small distance off shore. There is no wood to be had in this harbour, but water is plentiful.

ISTHMUS BAY .- Round the western point of Curlew Harbour lies the entrance into Isthmus Bay: in sailing into it from Curlew Harbour, you should keep Great Island on board, in order to avoid a shoal that stretches off the point towards the island. There is another passage into Isthmus Bay, between the western point and a small bare rock of a moderate height, that lies off the south point of Great Island ; this passage is narrow, and has 5 fathoms water in it." Both wood and water may be obtained here.

HARE HARBOUR .- One league to the westward lies Hare Harbour, which is only fit for small vessels, the ground being foul, until you are near the head, where you may anohor in 31 fathoms water, good ground. Hare Island, which lies before the extrance to the harbour, is high land. The eastern point of Huntingdon Island lies about 2 miles to the northward of Hare Island, and W.S.W. 2 W., 13 miles from the outer Gannet Island; it is of a moderate height, and is in length, from east to west, 7 miles. About 14 miles off the eastern point of Huntingdon Island are Saddler and Leveret's Isles, and to the northward of the latter is a rocky flat. _ There is a safe passage along the south side of Huntingdon Island, leading to Huntingdon Harbour: in it you may anchor in from 15 to 5 fathoms water, but the best anchor-age is in about 6 fathoms near the island; here you will lay secure from all winds, and be very handy for wooding and watering, there being plenty of both on the island.

SANDWICH BAY .-- On the S.W. eide of Huntingdon Island lies Earl Island, on either side of which is a passage into Sandwich Bay, which is a very fine one, being 6 or 8 miles broad and 6 leagues deep, having plenty of word, and four fine rivers that seem to be well stored with salmon. There is very good anchorage in a cove on the east eide of this bay, and on the north side under a high mountain; from the shore at the foot of the mountain and for about 5 miles to the westward, the soundings stretch off gradually from 5 to 25 fathoms, muddy bottom, and are about 3 miles from the shore. The passage into the bay, on the west side of Huntingdon and Earl Islands, has not been sufficiently sounded to he recommended, though it is, by far, the widest. The passage on the east side of Earl Island is narrow, and has but 8 fathoms vator in it.

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PROCESSING Westward from York Point, along the Labrador side of the Strait of Belle Isle, the coast is straight and bold to Wreck Bay. WRECK BAY bears W. | S. 10] miles from York Point, and has a small river at its

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head, but affords no shelter. Off the east point of this bay, at the distance of 24 miles S. by W. lies a small patch of rocky ground, with 5 fathoms, least water. On it the basaltic columns of Henley and Castle Islands are just open to the southward of York Point; and Barge Point, the next extreme to the westward, bears W. by S. distant 6 miles. The bottom can be plainly seen on this patch in fine weather; there is a heavy swell upon it in easterly gales, and frequently a great rippling; icobergs often.

Barge Bay, 41 miles to the westward of Wreek Bay, affords no anchorage. GREENISH BAY, 51 miles W, by N. from Barge Bay, is about 2 miles wide at the entrance but narrows within. Small vessels occasionally anchor in it ; but the ground entrance but narrows within. Small vessels occasionally anonor in it; but the ground is of sand, not very good for holding, and it is open to the wind and sea from the S.E... About 14 miles W. by S. from the west point of the bay is Oil Islet, a small, low, and bare rook, the south extreme of which bears W. 1 N. 64 miles from Barge Foint, Point it one, bearing E. 1 S. lies the Sunk Ledge a small path of rocks awash at point it one, bearing E. 1 S. lies the Sunk Ledge a small path of rocks awash at the tothe bear S.E. the south of the sale. low water, on which the sea usually breaks. The rocks hear S.E. ; E., about \$.5ths

of a mile from Twin Island, which stands close to the east point of hed Bay. RED BAY is an excellent little harbour, perfectly sheltered from all winds. It is formed by Saddle Island, lying off the entrance of a bay of the main which island has a hill at each end, about 100 feet high. ... To the westward of Saddle Island, at the distance of three-quarters of a mile, is West Bay, affording tolerable anchorage in westerly winds, in 10 or 12 fathoms water, over sandy bottom, but exposed to easterly winds. The outer harbour of Red Bay is between Saddle Island and Harbour Isle, at the entrance of the inner harbour, and the depth is from 6;to 9 fathoms, muddy bottom. The entrance of this harbour from the westward is sbout 100 fathoms wide, and the space to anchor in is 400 fathoms long, by 200 fathoms There is no entrance eastward of Saddle Island, except for boats. Immediately to the N.E. of this anchorage is the entrance to the inner harbour, which is between Harbour Isle and the main to the sastward, and 100 fathoms wide; but sheal water on either side diminishes the deep water channel to about 50 fathoms in breadth. The depth that can be carried in is 7 fathoms. Within there is a capacious basin, nearly three-quarters of, a mile in diameter, 16 or 17 fathoins deep, over muddy bottom, and where many vessels might basely winter. Captain Bayfield says that "Red Bay is easily entered with a leading wind, but

nothing larger than a schooner of 160 tone can beat in or out. The dangers outside the harbour to be avoided are the Sunk Ledge, off the Twin Island; another small rocky sheal about 170 fathome off the south side of Saddle Island; and a rock awak about 70 fathoms south from Peninsular Point. Running for the harbour from the eastward, the first will be avoided by keeping Greenish Point just open to the southward of the bare islet to the westward of it, till the west extreme of Saddle Island bears N.W. 1 N. Then steer N.W. 1 W. for the entrance of the bay between Saddle Island and the point of West Bay, taking care not to go nearer to the former than a quarter of a mile, or by the lead than 11 or 10 fathoms. As soon as the west Saddle Island bears N. by W., you may hall up for it, and round it to the eastward island, there is a reef running out 70 fathoms in, that is, off the north point of the island, there is a reef running out 70 fathoms to the northward, or towards Harbonr Island. The channel between this reef and the shoal of large stones connecting Harbour Isle with the main land to the westward of it is only 100 fathoms wile. As soon as you are through this entrance, you may choose your anchorage, only obsooring that there is shoal water all along the inner side of Saddle Island, and to the distance of 70 fathoms. A vessel moored here will be perfectly secure from all winds ; but if you wish to go into the inner harbour, there will be no difficulty in doing so with your chart, or if you first send a boat to look at the narrow entrance. In approaching Red Bay from the westward there is nothing in the way, accepting the rock off the Peninsular Point near West Bay, already mentioned; and which, being

so close to the shore, may be easily avoided." Carrol Cove, about 35 miles W by S. from Red Bay, is very small, but affords ac-commodation to a few vessels. About 4 miles to the westward of Carrol Cove is the easternmost of two small islands, a mile spart, named the Little St. Modest Islands, which have a dangerous rock swash at for water off them, half a mile S.E. by S. from the west extreme of the western isle. St. Modest Isle; on the opposite or west

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afforde aclove is the st Islands, S.E. by S. to or west side of Black Bay, is bare; within it, fishing vessels moor to the rocks on either aide.

BLACK BAY, 11 miles west of Bed Bay, is 3 miles wide, and about 2 miles deep. It is open to S.E. winds, which send in a heavy swell, but there is tolerable anchorage in 10 fathoms off a fine sandy beach to the west of a river at the head of the bay. There is a rocky sheal of 2 fathoms one mile N.E. of St. Modest Island.

From St. Modest Island, 13 miles S.W. is Cape Diable, and to the west of this is Diable Bay, which with Loup Bay. 3 miles farther, may be readily known by the magnificent cliffs of red saidstone, 300 or 400 feet high, which extend two or three miles between them. "Schooger Cove is on the S.W. side of Loup Bay; it is open to the eastward, but fishing rescele use it in the summer months. There is a fishing establishment and several houses in this sove: "The anchorage in Loup Bay is extremely god, particularly in the N.E. corner of it; and although open to the south, vessels ride here all the summer.

FORTEAU BAY, 4 miles west of Loup Baya's 4 miles broad between Point Belles Amours, the S.E. point, and Point Forteau, the S.W. point, which points bear from each other E. J. S. and W. J.N. it is about 21 miles deep, and rune to the northward. At the head of the bay is a fine sandy beach, and a large and rapid river, abounding in salmon. There is a fine fall of water 14 miles within the bay, from Point Forteau, which, with a remarkable, high rock off the S.W. of Point Belles Amours, will serve to point out the bay to atrangers. It is considered to be the best roudstead in the summer; they have large fishing, establishments on the most side of the bay. The best andorage is on the N.W. side, opposite the fishing establishments. From Point Amour, across the entrance of the Strait of Belle Iele, to the N.W. extremity of Newfoundiand, the distance is 94 miles.

Four miles W.N.W. from Fortsau Point is a small bay open to the southward, named St. Clair, which affords no anchorage. Off its east point a small low islet and reef extend some distance.

About 3 miles to the westward of St. Clair Bay is the hay of Blanc Sahlon, which is exposed to westarly winds, but sheltered to the S.W. by two islands fasmed Wood and Greenly. It is an unsafe anchorage, particularly in the fall of the year, and during winds from the west, which send in a very heavy sea. It is a mile deep, and 14 miles wide; and on a projecting point at the head of the bay, are the buildings of a fishing establishment. Close to the east side of this projecting point is a rest of rocks which runs of 800 fathors from the shore. Wood Island, off Blane Sahlon Bay, is low and barren, and about 14 miles long; it

Wood Island, off Blane Sahlon Bay, is low and barren, and about 13 miles long; it has some fishing establishments on its east side. From its west side a reef extends a quarter of a mile

Greenly Island lies 14 miles wast of Wood Island, and between them is a clear channel. Off the south point of the island, at the distance of about 200 fathoms, is a rocky shoal. On its east side is a cove sometimes used by the fishers, but this anoherage, as well as that under Wood Tsland, is not good.

One mile and a half westward of Blanc Sablon Bay is Gulch Cove, a small inlet of the main, off the entrance of which there are some rocks which shelter it; it is so narrow, that there is not room for the smallest schooner to turn about in it, hence the vessels which frequent it are warped out stern foremost.

From Bland Sablen Bay to Grand Point, the distance is 22 miles. Off it is a dangerous reef of rocks, 850 fixhoms to the south and west; and eastward of this reef, for 14 miles, there are rocks above and under water, extending off the shore for a quarter of a mile in wome places.

Perroquet Island lies N. by W. 1 W. 1 miles from Grand Point. It is high, and less than half's mile in diameter, and frequented by vast flocks of puffins. It is nearly balf a mile from the land, but there is no channel between. Three miles in the same direction (N. by W. 1 W.) from Grand Point, is the edge of the mile in the same direction (N. by W. 1 W.) from Grand Point, is the edge of

Three miles in the same direction (N. by W. 1 W.) from Grand Point, is the edge of the shoals on the south side of Ledges Island, between which island and Pergoquet is the passage to Bradore Harbour. Opposite to the centre of this island, on the main, to the eastward, is an establishment which is about 11 miles N.N.E. from the west side of Percoquet Island.

BRADORE HARBOUR.-Bradore Harbour, on the east side of Ledges Island, should be approached from the southward, between a chain of islands off the island,

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which are quite bold-to, forming the western side of the channel, and the coast of the main, on which is the before-mentioned establishment, forming the eastern side. There is no passage to this harbour to the north or west of Ledges Islands, as the epace is crowded with rocks and dangers, although there is a narrow and very deep channel for small vessels close on the island. To enter Bradore Harbour, coming from the eastward, give Grand Point a berth of balf a mile, to avoid the reefs lying off-it, or take care that the west extreme of Perroquet Island does not bear to the west of North. Perroquet Island may be passed as near as a quarter of a mile. Having passed it, haul towards the entrance till the west extreme of Greenly Island is half a point open of the west extreme of Perroquet Island, or bearing S. & W., in order to clear the Gull Rock and Ledge, which bear S.W. by W., and are distant 280 and 490 fathoms respectively from Point Jones, on which the houses stand. The rock just covers at high water, and therefore can always be seen ; but the ledge has 2 fathoms least water, and therefore is extremely dangerous. On the west side of this ledge, the west ends of Perroquet and Greenly Islands are in one, and they may therefore be woided by the course above mentioned. Proceed on this course N. & E., till Jones's house bears E.N.E. and the northern islet on the east appearing like the north extreme of Ledges Island; N.E. by N.; then steer for the latter, leaving the Gull Rock to the east, and looking out for a small rock lying off an island on the opposite side, after passing which, the channel is clear, keeping nearer the islets than the main. A run of about 700 fathoms from the houses, will bring you opposite the entrance of the harbour, when you must haul sharp round to the westward, between the islets into the harbour; this entrance is 80 fathoms wide and 8 fathoms deep. The harbour is perfectly land-locked, and will accompodate but a small number of vessels; the depth is from 4 to 17 fathoms, muddy bottom.

In approaching Bradere Harbour from the west, beware of the reefs, extending three-quarters of a mile to the south-wast of Ledges Island, which may be cleared by not bringing Perroquiet Island to bear to the southward of S.E. by E. uhtil Jones's house bears N.E. by E.; then steer for the latter, until the marks come on for clearing the Gull Rock and Ledge, when you must proceed as before directed.

To the north-west of Bradore Harbour are the Bradore Hills, conspicuous as being the highest land on the coast. They consist of three round-backed mountains, the northernmost of which is the highest, being 1264 feet above the level of the sea. Bradore Bay, between the harbour and Point Belles Amours, is considered to be

dangerous on account of the straggling rocks scattered about, and of its exposure to southerly winds, which send in a heavy sea. Point Belles Amours is a mound of red granic, 60 or 70 feet high and will be easily recognized. BELLES AMOURS HARBOUR.—This harbour hes to the north-east of Point

Beiles Amours, the north-east side of the entrance being named Stony Point, from which at 12 miles S. by E. are the Flat Bocks. Harbour Point is a bare grants hill, 160 feet high with segrel stone beacons upon it, situated 14 miles within Point Belles Amours on the westermaide. To enter the harbour by the eastern passage, steer N. by W. 4 W., so as to leave the Flat Rocks a quarter of a mile to the eastward; proceed on this bearing until you have approached the east side of Harbour Point, as near as 100 fathoms, taking care, however, not to approach Stony Point within a cable's length. Then steer N. until you are abreast of the rock above water off the sandy part of Harbour Point, when you must haul a little to the westward, so as to bring the east side of Harbour Point and Point (nearly opposite to Stony Point) in one. Keep them in one, in order to round the north extreme of the Flat, and you will have 4 fathoms until Mark Point (the extreme on the north side within the harbour Peak Point (a remarkable rocky point in Middle Bay), seen over the low land at the head, of the harbour, and bearing W. 4 S. As soon as this mark comes on, haul the high north-shore until within the sandy spit, when you may haul to the southward, and anchor anywhere; in from 6 to 7 fathoms, muddy bottom.

Nearly midway between Point Belles Amours and the Flat Rocks, there is a rocky patch, with only 2 fathoms water upon it; and there are other patches of 84 fathoms between it and the point. To enter the harbour by this westerly passage, which is preferable in westerly winds, take care not to shut in Stony Point behind Point Belles Amours, for fear of the Middle Ledges, which he off Middle Point, the outermestbeing 600 fathoms off shore. Pass Point Belles Amours at the distance of 200

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fathoms, and keep at that distance from the shore till you have passed Pond Point;

then bear away to Hart Point, and proceed as before directed. Belles Amours Hart Point, and proceed as before directed. Belles Amours Hart Points a fine place, where a number of vessels may lie perfectly land-locked; water may be had, but wood for fuel is scarce.

At 11 miles W. 1 N. from Point Belles Amours is Middle Point, with several rocks off it, and it miles farther is Five Leagues Point, the coast between bending inwards two miles, and forming a fine open bay named Middle Bay, in which you may anchor in from 4 to 13 fathome, sandy bottom, free from all danger. For the first mile in, the shore should not be approached nearer than 150 fathoms.

Five Leagues Point is the extremity of a low penineula which is remarkable for an isolated and precipitous hill nearly 200 feet high, at three-quarters of a mile northeast from the point. Off the point a reef rune a quarter of a mile to the south-west, outside of which, in the same direction, are the two Barrier Reefs which may be cleared by bringing the south extremities of Middle and Belles Amours Points in one, bearing E. & S.

To the westward of Five Leagues Point is the harbour of the same name, which is quite unfit for any but small vessels. At 34 miles, W. by N. from Five Leagues Point, is Salmon Islet, which is nearly joined by a spit of sand to Caribou Island, and off which the shoals extend nearly 400 fathoms to the S.E. Between Caribou Island and the main, to the east of it, is the eastern entrance to Salmon Bay, which has but 6 for depth at low water; the other entrance is from Bonne Esperance Harbour round to the north of Caribou Island, in which is plenty of water, and good shelter. BONNE ESPERANCE HARBOUR, considered to be the best on this part of the coast, lies to the westward of Caribou Island. A good mark for the harbour is Whale Island, the south-casternmost of the Esquimaux Islands, which lies N.W. by W. 1 W. 18; miles from Greenly Island, at the entrance of the Strait of Belle Isle, and is made as there is also on almost every one of these islands. Whale Island bears W.S.W. W., 41 miles from Salmon Liket, before mentioned. Between them lie the islands forming the harbour, which are very steep, and of bare granite. To the south-west of Caribou Island lies Goddard Island, which is joined to it and another islet by shoal water ; it has a small rock above water off it, 130 fathoms to the south-west, and 350 fathoms to the south of it is Goddard Rock, which dries at low water. On the other

side of the channel, opposite to these rocks, are the Watch, a small uncovered rock, and Breaking Ledge, which just covers at him, water. The entrance to the barbour between the various dangers, is 460 fathoms way, with 17 fathoms water in the centre. Beacon Islet lies W.S.W. W. we hearly a mile from Goddard Islet; it is rather low, and has a pile of stones on it. Three-quarters of a mile, west of it is Red, Head, an island bearing E.N.E. 900 fathoms from Whale Island; between them is Fish Islet, To the north-east of Red Head Island is Chain Island, formed of two penineulas, and beyond it Bonne Esperance Island, three-quarters of a mile long and 150 feet high. Lion Island lies a quarter of a mile east of Bonne Esperance Island, and between them is a low islet joined to Lion Island by shoal water, but leaving a narrow and difficult channel between it and Bonne Esperance Island. Off the east side of Lion Island is the Whelp Rock, always uncovered, at 50 fathoms from the island. Between this rock on the west, and Goddard and Caribou. Islands on the east, is, what may be termed, the inner entrance from the main channel; it is 450 fathoms wide, and has 10 to 13 fathoms water.

To enter Bonne Esperance Harbour, from the eastward, with the wind from the east, stand toward Caribou Island, and when of the south side, at half a mile from it, the south sides of Bescon and Red Head Isless and the north side of Fish Islet, will be in one, bearing W. 1 N. Bear up on this mark, or else steer West, keeping the lead going, and a sharp look out for Goddard Rock. You will have about 9 factoms at low water, until past this, when it will deepen suddenly to 15 or 19 fathoms, and then you will be in the channel. Steer immediately N. by E., and Whelp Rock will be right ahead and appear in one with the wear side of House Island, which lies close the fight alread and appear in one with the wess show in the bar a house on it. Keep on this bearing till fast Bold Routh the south-west point of Goddard Island, when you must bear a little eastward, the south west point of Goddard Island, length, and then run up W.N.W. contrast the inner sides of Lion and Bonne Esperance Islands into the harbour, and when you please, in 12 to 16 fathoms.

FROM YORK POINT TO CAPE WHITTLE ..

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ever a muddy bottom. The whole bay may be considered as a harbour, and is so good that it will afford accommodation for a fleet. We all water may be procured from the main land, but not from the islands.

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In coming from the west with a westerly wind, keep half a mile from the south point of Whale Island, and steer E. by N., to avoid two 4-fathoin dangers; one the Whale Patch, lying half a mile E. by S. from the centre of Whale Island, and the other twothirds of a mile south of Beacon Island, named the Middle Patch. These may be avoided by not coming within a less depth than 10 fathoms, or by keeping southward of the track above mentioned. Keep on this bearing till Whelp Book and House Island are in one, bearing N. by E.; then haul in tipon that bearing, and proceed as before. There are several other entrances into Bonne Esperance Harbour, between the surrounding islands.

To the north of Bonne Esperance Harbour are Esquimaux Bay and Harbour. Esquimaux Island lies in the middle of the bay, and forms, with the main to the east, a very narrow channel, which runs 14 miles E. N.E. and then opens into a wide space with two islets in it. -The mouth of the River and the trading post may be reached by keeping along the east coast. The trading post is on a sandy point, backed by spruce trees, 2 miles above Esquimaux Island. The river abounds with salmon ; the approach to it from the westward is so intricate, from the number of islands, that no directions can be given.

ESQUIMAUX ISLANDS.—These islands commence at Caribou Island, and extend for 14 miles to the westwird. They are generally bare of trees, and are of all sizes and heights under 200 feet. They form an endless number of channels, which it would be impossible to describe; and off them are several small rocks and shoals, some of which are fully 4 miles from the main land.

Proceeding westward from Whale Island, outside the islands, 44 miles W. by N., we come to the outermost of the Fort Rocks, a cluster of low rocks extending 650 fathour to the south-west of Old Fort Island, which island is of moderate height, and 14 miles the south-west of Old Fort Island, which island is of moderate height, and 14 miles the south west of Old Fort Island, which island is of moderate height, and 14 miles the south west of Old Fort Island, which island is of moderate height, and 14 miles the south west of Old Fort Island, which island is of moderate height, and 14 miles the south west of Old Fort Island, which island is of moderate height, and 14 miles the south west of Old Fort Island, which island is of moderate height, and 14 miles the south west of Old Fort Island, which island is of moderate height, and 14 miles the south west of Old Fort Island, which island is of moderate height, and 14 miles the south west of Old Fort Island, which island is of moderate height, and 14 miles the south west of Old Fort Island, which island is of moderate height, and 14 miles the south west of Old Fort Island, which island is of moderate height, and 14 miles the south west of Old Fort Island, which island is of moderate height, and 14 miles the south west of Old Fort Island, which island is of moderate height, and the south west of Old Fort Island, which island is of moderate height, and the south west of Old Fort Island, which island is of moderate height, and the south west of Old Fort Island island island is of moderate height, and the south west of Old Fort Island i

is the Whale Channel, between Whale and Teat Islands. let, at 12 miles W.N.W. of the outer Fort Rock, is low, and has a ledge

Ist. Midway between Fort Rock, is low, and has a ledge burse in through Old Fort Channel will be N.E. 4 N., with very deep water the when way to Old Fort Bay, which runs toward the north-east for 4 miles, with deep water to its head.

The Dog. Islands, to the westward of the Fort Rocks, are very numerous, and surrounded with innumerable rocks and shoals. There is anchorage between them and the main, which can only be got at easily by running down with a westerly wind from Shecatics, does along the main land, and in the channel between the latter and the scattered rocks and Bdges which lie off it; where there is very deep water the whole way, of nearly 60 fathoms in some places.

To the northward of the Megmot Islands, and eastward of the Dog Islands, is a group of rocky islets, named the Eiders.

About 34 miles, W.N.W.d. W., from the outer Dog Rocks are two or three black rocks above water, named the Perpoises, lying three-quarters of a mile, from shore. Farther on, in the same direction; at the distance of 34 miles, is the Boulet, a small round-backed islet, green at the top and about 70 feet high, which, together with the opening to Lobster Bay, 14 miles E.N.E. from it, will serve to indicate to a visual its position off the coast. Lobster Bay is completely exposed to south-westerly winds; it is about 4 miles in depth, by about 200 fathoms half-way up, after which there is anohorage quite to the head, with muddy bottom.

At haif a mile N.W. from the Boulet is Crab Islet, and 44 miles W. by N. from it are the Four Rocks, having within them the Inner Islet. These are the only islets between the Boulet and Shecatics; but there are many rocks and ledges between them, and also off the Boulet, to seaward. Of these the most dangerous is the Peril Rock, which is very small, dries at half this part of the coast; the sea, however, It is the outermost and greatest danger off this part of the coast; the sea, however, almost always breaks over it, and also over the others which lie between "it and the Four Rocks. There is no warning by the haud-lead in approaching any of these rocks, as they are all steep-to.

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About a mile to the eastward of Lobster Bay is Rocky Bay, on the eastern side of which, at a mile within the entrance, there is a small cove frequented by the fishermen. who anchor in 5 fathoms, muddy bottom, and well sheltered from all winds; hero there is a house and stage. To the westward of Lobster Bay, distant 34 miles, and very similar to it; is a straight and narrow inlet n Narpetepee Bay, which runs up to the north-assward about 44 miles, and the shelter, being open to sesward. About 84 miles W.N. from the stage of the shelter, being open to sesward. About 84 miles W.N. from the shelter, being open to sesward. attos Island, which has near it, blose to the main, the Island of the same name; this bay runs inland 3 m

name; this bay runs inlam 3 m in the centre, decreasing to 17 f from the head is anchorage on mut

Opposite the mouth of the bay, o bour, having a depth of fifteen to t

anchor in less water (about 12 fathom the bay and the island, but the channel is

homs wide. Half a mile to the thoms farther Diver Islet, baving on westward of Mistanoque is Enter Islet, and the southern side a reef, which runs out to the distance of 130 fathoms. These islets are low. About 400 fathoms to the N.W. of them is a group of small islands, forming with the others the western channel to the harbour, which is quite clear. There is nothing immediately outside of Shecation, Mistanoque, Enter, or Diver Islands; so that no other instructions appear to be requisite than to run through the centre of

either channel, as may be preferred. Nearly 71 miles, W. # S., from Mistanoque is Bhsg Islet, which is very remarkable, being small and high, with a round-peaked hill looking green in the middle, and is an excellent guide for making Mistanoque from the westward, as the Boulet is from the eastward. There are many rocks to the S.E. by E. of it, the outermost of which, the Shag Rock, is 2 miles distant. When three-quarters of a mile to the southward of the Shag Rock, the south point of Shecatica will bear E.N.E. 8 miles off, and this course will take you a mile to the south of the Three Rocks, lying midway between them.

The coast hence to the south-westward is broken into immense bays and inlets forming islands of moderate height, and partially covered with moss. The outer coast is lined with small islets and rocks, which are very difficult to pass through ; while within them there is a great depth of water in the intricate channels and bays between the islands and the main.

CUMBERLAND HARBOUR, formed by Cumberland Island on the east, and Duke's Island on the west, lies N. by E. 4 E., about 3 miles, from the outer Shar Rock, and may readily be distinguished by a remarkable high hill on the main land, appearing like a castle at its summit, having steep cliffs looking like walls; this hill lies northward, nearly 81 leagues, from the entrance to the harbour. The islands forming the harbour are moderately high, the eastern one making in two round hills. The harbour should be approached between the Shag Rock and the Three. Rocks. which bear from each other E.N.E. and W.S.W., distant 21 miles. In sailing into this harbour there is no danger but what appears above water, excepting a small rock, which lies S. by W. rather more than half a mile from the west point of the entrance. The entrance is about 200 fathoms wide. As soon as you arrive within its outer points, haul over to the western side, and run along it to the inner point on that side, bearing N. by W. $\frac{1}{2}$ W. about three quarters of a mile from the outer east point of entrance. As soon as you arrive there, you may haul to the eastward, and anchor where you please, in from 7 to 20 fathoms water, over good ground. This is an excellent harbour, the best and easiest of scoess on this coast; and good water can be had in plenty on the east side of the harbour; but for wood you must go up to Shecation Bay.

Shecatics Bay lies 3 or 4 miles to the north-eastward, of Cumberland Harbour, and rons inland to the northward many miles. It has many islands, branches, and narrow crooked passages, too intricate for any one to attempt who is not perfectly acquainted with the navigation of the coast.

SANDY HARBOUR .- This harbour lies N.N.W. 1 W. 24 miles from Shag Islet, and is situated on the south side of Sandy Island. To sail in, pass to the eastward of the Egg Rocks, which bear N.W. by W. 13 miles from Shag Islet, and keep the starboard point of the bay (which is the west extreme of Duke's Island, bearing NE. more

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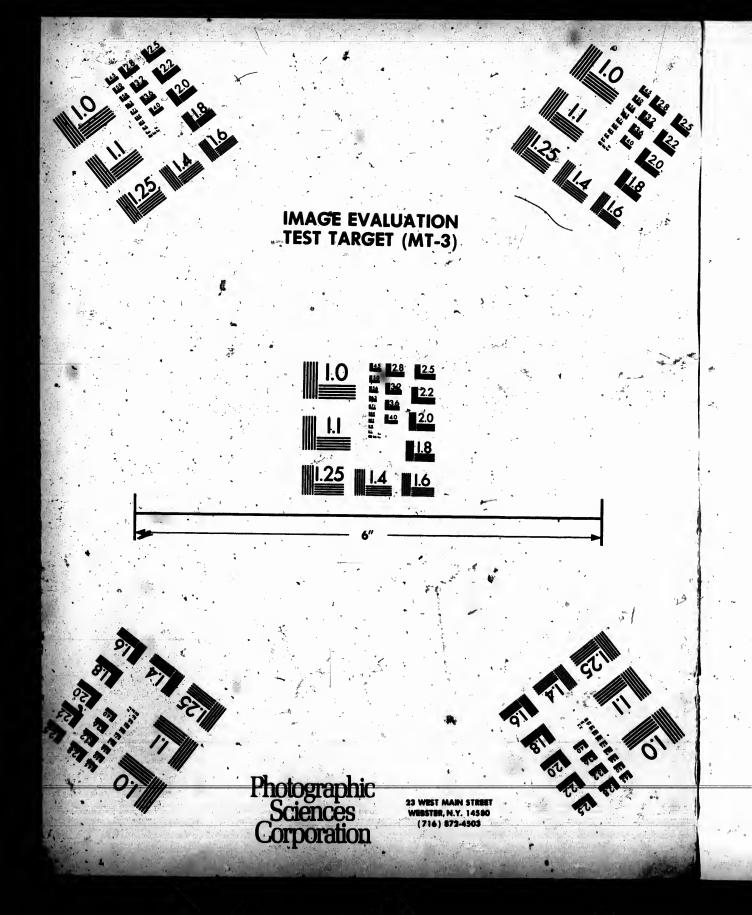
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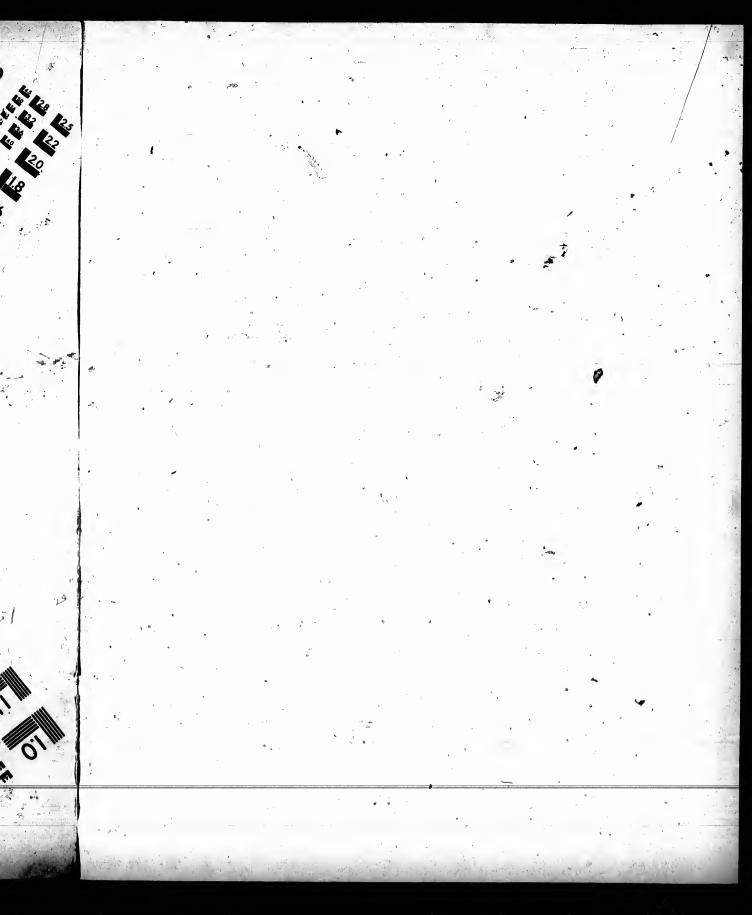
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than half a mile from the Egg Bocks,) on board in going in. You will then see a small rook above water, to the northward, lying over towards the east side off the entrance of the harbour, and which you may pass on either side, and then steer in N.N.E. $\frac{1}{2}$ E for the harbour, there being nothing in the way but what appears. After you have passed the entrance, which is about two cables wide, you must haul to the N.W. into the harbour, and choose your berth in 5 or 6 fathoms. This is a very safe harbour, with good ground. Here, as in Cumberland Harbour, is no wood to be had, but plenty of water. In making for this harbour, care should be taken to avoid a ledge under water, west of the Shag Rock, and about a mile south of Shag Island; and also another nearly a mile S. $\frac{1}{2}$ E. from the Egg Rocks, and W. by N. from the top of Shag Island. There is a small reef with shoal water extending $\frac{1}{2}$ of a mile from Shag Island towards this ledge, leaving a deep channel between, more than $\frac{1}{2}$ of a mile wide.

Port Augustine is a very small harbour, with a very narrow and intricate entrance, and is fit for small oraft only. The approach to it is to the westward of Augustine Chain, a chain of small islets, the outermost of which is a round smooth rock, with a high black rock half a mile to the westward of it. Between these last-named rocks there is a ledge, which shows at one-third ebb. The passage is on either side of this ledge, and then northward along the west side of Augustine Chain.

The south extremity of Augustine Chain bears W. $\frac{1}{2}$ S. about 7 miles from Shag Ialst. Between them lies Square Channel, the largest in between the islands, towards the main land. It is too intricate for description; at 14 or 10 miles up it, in a N.W. $\frac{1}{2}$ N direction, is the entrance of the River Augustine with a sand bar across it, dry at low water. There is plenty of wood at this river.

Eagle Harbour, on Long Island, is unfit for anything but small vessels, the entrances being narrow and intricate. This part of the coast is very dangerous on account of the numerous islets and rocks off it.

Off the entrance of Fish Harbour, N. $\frac{1}{2}$ W. $4\frac{1}{2}$ miles from the Bottle on the north of Great Mecatina Island, is Wood Island, so called from its being covered with wood. The entrances to Fish Harbour are on either side of Wood Island, the northern being the best f there is a ledge to the south of the island, which always shows, and a rock with only 3 feet water upon it, one-third of a mile S.S.E. $\frac{1}{2}$ E. from the east point of the island. Wood and water may be obtained, and there is a trading establishment here.

HA-HA BAY.—This bay lies in the main, to the westward of Long Island, and has several small islands at its entrance, forming separate entrances. The best of these is, that which lies between Seal Point and Round Island, and leaves all the islands on the starboard side; this being a wide and ease passage, having no danger but what is visible. Ha-Ha Bay runs in to the N.E. by N. 8 miles, and has a depth, in one part, exceeding 60 fathoms; in it there are many islands at its head, on the starboard side. Within these islands, to the eastward, are numerous aneberages, with from 9 to 20 fathoms water. Vessels may occasionally anchor anywhere along the eastern side of the bay, in 12 and 14 fathoms, muldy bottom; but on the western side the water is too deep. N.N.E., about 2 miles from the entrance on the west side, is a high buff head. Hound this head, N.W. by W. half a mile; is a small but safe harbour for small vessels, in which you will have 12 fathoms, good ground. This harbour is formed by an island, on either side of which there is a narrow but safe

passage. GREAT MECATTINA ISLAND, to the southward of Ha-Ha Bay, is a miles S.E. from Bed Point; the nearest part of the main. It is by miles long, north and south, 3 miles wide, and about 500 feet high in the centre. It is composed of granite, and the position of the island, with relation to the high land inside of Cape Meesttina, 4 or 5 miles W.N.W., distinguishes it from any other island in the Gulf.

Nearly joined to is north point is the Bottle, a high round islet, with a small rock olose off it, to the N.W. by N.; and half a mile in the same direction, is s rocky sheal of 4 fathoms. Bluff Head is the high N.E. point of the island; and between it and the Bottle is a cove, one mile deep, named Island Harbour, sheitered from the cast by a cluster of small islets and rocks, having a passage on either side of them. The anohorage is near the head of the cove, in from 14 to 20 fathoms, good ground; here both wood and water may be obtained. If you enter by the south passage, keep Bluff Head on board; and if breast north, pass between the cluster just mentioned and a small isolated rook about a ‡ of a mile N.W. of it, and a cable's length from the shore of Great Mecattina.

Treble Hill Island lies E. by S. about 3 miles from the centre of the island of Great Mecatima, Flat Island; S.S.E. ‡ E. 3 miles from its south point, and the Murr Islats S.W. about 4 miles from the same point. To the N.E. by E. from the casternmost of the Murr Islands there are bidge, on which the sea generally breaks. All these islands are quite bold-to, and swarm with sea fowl. The Murr Islats are of considerable height, and flat at top; about ‡ a mile to the S.E. of the southernmost of them are two small and low rocks above water.

MECATTINA HARBOUR, behind Mecattina Island in the main, is safe but small, yet will admit vessels of burthen, there being not less than 8 fathoms at low water in either passage to it; but they must more head and stern, there being no room to moor otherwise. This harbour lies 31 miles N.W. by W. W. from Round Head, a high peninsula on the west side of Great Mecattina Island, and 54 miles N. by W. + W. from the Murr Islets. It is only 28 fathoms wide in the western entrance, and 60 or 70 fathoms wide within. It may be safely taken by small vessels in fine weather, but not in stormy weather, the entrance being so narrow; the least neglect in steering might place the vessel on shore. To sail in through the western passage there is no danger, but to sail in through the eastern channel you must observe the following directions :- From the eastern point of Mecattina Island Steer N. by W. towards the main land, keep that close on board, until you get the N.W. point of the island at the western entrance on with the south point of Dead Cove; this is a small cove on the main, which lies open to the eastward; the land which forms it is very low, with some brushwood upon it. Sail on, in that direction, until you get above a stony point, which is the north side of the said cove; or until you bring the north point of Gull Valand, which is a small island lying E. by N., distant a mile from Mecattina Island, on with the E.N.E. point of Mecattina Island, you will then be, within a spit of rocks which stretches off the island, and must haul over for Mecattina Island, in order to avoid a ledge running off from the south point of Dead Cove; and when you open the western passage, you may anohor in 6 or 7 fathoms water.

Vessels coming from the eastward, and bound for the harbour of Mecattina, in, passing between Guil Island and the main, should be careful either to keep Gull Island or the mainland close on board, in order to avoid a sunken rock that lies nearly, half-way between them, on one part of which there are not above 8 feet water. The highest part of the land between Grand Point and Ha-Ha Bay is directly over the harbour of Mecatima.

CAPE MECATTINA, or GRAND POINT, is the extremity of a promontory, running out from the main land; it is low at the point, but rises, inland, gradually, until it becomes of considerable height; it may easily be recognized by the adjacent: islands and rocks, the nearest of which is a small low rock not far from the point. Two of these islands are much larger, and rise much higher than the others, and have named the Dyke Islands; the outermost are small, low, rocky islands, lying of the off the point; they all lie in a S.S.E. is a fiber point to point. Vessels bound to Mecatina Harbour from the westward sither pass through the clear and deep, channel between the Northern Murr lalet and the Outer/Rocks, or between the islands, for there is a safe passage on either side of Entrance/Island, the second from the point; the best channel however among these islands, is between Entrance and Dyke Islands. The cape is situated in lat, 50° 10" N., and long: 50° 2' 30" W.

Portage Bay, to the westward of Mecattina Harbour, is 2 miles N. by E. from the south point of Cape Mecattina. It runs in about 14 miles to the northward, and affords some shelter. A small late lies in the mouth of the bay, towards the east side, which forms a small harbour, the western entrance to which is the best. In the approach to this harbour there are two 15-feet ledges to be avoided, one 400 fathoma S. 5. W. from the west and of Mouton Island, and the other half a mile N.E. by E, from the southern Seal Book, which is three-quarters of a mile N.E. by N. from the south point of Cape Mecatina.

The Great Island of Mecattina being the most remarkable land about this part, vessels frequently make it their point of departure, and shape their courses from its to other places. When without the Murr Bocks a W. by S. course, 55 miles, will take you without the rocks to off Cape Whittle; though by this course you will pass very near to St. Mary's Rocks. From the Murr Jelands to Wood Island, near Grand

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LITTLE MECATTINA ISLAND is 74 miles long, in a N.N.E. direction, and 3 miles wide. It lies W.S.W. 4 W., 15 miles, from Cape Mecattina; between them is berth given to them. Salaberry Bay, on the west side of this island, outs it nearly in two. The northern part of the island is low land, joined to the southern part by a 660 feet above the level of the sea. Little Mecattina River is large and falls 30 feet the north end of the island.

Little Mecatina Island, having no channel between it and the main for vessels, and scarcely even for boats at low water, may be considered as forming the west side of a large bay. The promontory of Mecattina forms the east side of this bay, which, as already mentioned, is filled with islands and rocks innumerable, among which no vessel could find her way, and where it is possible to lose oneself for a time in a boat.

Hare Harbour, on the east side of Little Mecattina Island, has depth and room enough for the largest ships, but has several rocks and ledges in it, which render it difficult to strangers. As it opens to the southward, the prevailing westerly or easterly winds are favourable for sailing in, and are generally accompanied with a smooth sea in the entrance. It is only when the wind is well to the southward that there is any swell, and even then it never rolls into the harbour so as to affect a vessel.

In order to enter this harbour with an easterly wind, you ought to pass to the southward of the Fin, Scale, and Single Rocks, at the distance of about half a mile. The Single Rock is just awash, and has three sunken rocks near it, and should not be approached nearer than a quarter of a mile, as the sunken rocks are 160 fathoms from it. There is nothing in the way to the westward of the line from Single Rock to the Eden Islands, excepting the Cat Rocks, above water, and Staff Islet and its ledges. When abreast of the Single Rock, hauk round to the north-westward by the harbour will bear N.W., with nothing in your way, and you may steer directly Letter and the start of the s

In coming with a westerly wind, steer N.N.E. & E., passing Point A the state of the steer point of Little Mecattina Island, at the distance of one-third of the steer, the tinue on N.N.E. & B., leaving the Cat Rocks and Staff Islet and Ledges on your port see the entrance of the barbour bearing N. 4 W., distant a mile; and, when abeam, you will because there is no other channel through which you can see clear into the harbour Data the former position abreast of Staff Islet, continue Daly and Price Islands; or, from the former position abreast of Staff Islet, continue on N.N.E. & E., 300 fathoms farther, till the entrance bears N.N.W. then haul directly in for it, leaving Eden Islands and Price Island on your right hand, and Island on your left, or to the westward, is quite bold.

About 170 fathoms, within the entrance on the east, or Price Island side, you will see the small Wateh Rock above water, and farther in a very small islet, named Bold Islet, which lies about one-third of a mile within the entrance and 80 fathoms W.N. W. from the inner end of Price Island, and is quite bold. On the west side, bearing N. $\frac{1}{2}$ W. 200 fathoms from the east extreme of Daly Island, lies Safe Rock, very small and above water, and is quite safe on its east side; and nearly mid-way between Safe Rock and Bold Islet lies Rag Ledge, which just dries at low water. This is the prinoipal danger in the way, but it can almost always be seen from aloft, and there is a fathoms. The western obannel, however, is the better; and the course from the centre one-third of a mile. When within these dangers, you must choose your anohorage the bottom is in general of mud, with from 9 to 14 fathoms water. In doing this,

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FROM YORK POINT TO CAPE WHITTLE.

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however, there is one more danger to be avoided, namely, the Foul Rock, a 2-fathom patch bearing exactly north 600 fathoms from the S.W. point of Price Island. Until within this rock, therefore, you should keep more than half-way over from the islands forming the east side of the harbour, towards its western shore. You may, if you choose, run in nearly half a mile farther than this patch, and anchor to the eastward of Cluster Point, which consists of some low small islets and rocks extending off the Little Mecatting shore; this position is considered the safest in the harbour.

The south shore of Little Mecattina Island, as far as Cape Mackinnon, is high and bold, with remarkable beaches of white boulder stones occasionally. About 14 miles W.N.W. 4 W. from the cape is a dangerous reef, awash at low water, named the Spray Reef, which is bold-to all round, and should always be passed to the westward when entering Aylmer Sound.

Aylmer Sound, to the westward of Little Mecattina Island, affords no anchorage until beyond the Doyle Islands at its head, behind which is Lou Road and Louise Harbour; in the latter vessels can ride in 4 fathoms, in the southern part of the harbour, but will be exposed to the W.S.W., although protected in a great measure by the Doyle Islands. To sail into this harbour of into Lou Road, keep the eastern side of the Doyle Islands aboard, by which you will clear some ledges lying in the entrance of Salaberry Bay to the N.E.

The western side of Aylmer Sound is formed by a cluster of high islands named the Harrington Islands, the extremity of the outermost of which is named Cape Airy. There is no passage between these islands on account of the multitude of rocks. Of Cape Airy at the distance of 2 miles, S. by W. W. W. is the Black Reef, composed of low black rocks above water, and W. by N. 14 miles from the cape is Major Reef, awash at low water, and 8 miles farther are the Netagamu Islands, within which and the Harrington Islands, the mainland bends inwards and forms a bay, having a quantity of rocky islets at the entrance. On the largest of the Netagamu Islands is

About 12 miles Noby W., from the Netagamu Islands is the river of the same hame, which may be known by a sandy beach, backed with a thick growth of fir trees, on either side of the entrance, which entrance, though narrow, has deep water close up to the falls, a distance of 12 miles; these falls are 50 feet high. A bar of sand, with 3 feet over it, extends a mile from the entrance, and is extremely dangerous to boats because of the heavy surf. The current of the river is rapid.

because of the heavy surf. The current of the river is rapid. Ten miles, W.S.W., from Cape Airy are the St. Mary Islands, estimated to be 200 feet high; they are composed of bare steep granite, and bold all round. To the westward of them are the clusters of the Cliff and Boat Islands, separated by a channel half a mile wide, with 17 to 30 fathoms in it. •

To the northward of these clusters of islands is Watagheistic Island, 3 miles long and above 14 miles broad, lying at the entrance of a large bay, within which is a large sound containing several good anchoring places, but unapproachable without passing through 7 miles of dangerous navigation. To the north of the St. Mary Islands are several islets, rocks, and reefs, the largest of which islets is Cove Island, bearing 4 miles N.N.W. from the north point; there are thickly scattered rocks both above and below water, between it and the Netagamu Islands. The eastern entrance, between Watagheistic Island and the main, is narrow and intricate, but the western entrance is half a mile wide; and though there are several rocks and ledges in it, yet it can be safely sailed through with proper care; but there is no good anchorage on the route to, or outside either entrance to Watagheistic.

St. Mary Reefs are four very dangerous ledges, just under water, extending a mile, N. and S.; the southernmost bearing S.W. $\frac{1}{2}$ S., $\frac{3}{2}$ miles, from the S.W. extreme of the Boat Islands; W.S.W. $\frac{1}{4}$ W., 6 miles, from the S.W. extreme of the St. Mary Jelands, and S.E. $\frac{1}{2}$ S., $\frac{3}{2}$ miles, from the westernmost of Southwest Islands. The Tender Rock, small and awash, lies N. by W. $\frac{1}{2}$ W. a mile from the northernmost St. Mary Rock, and 2 miles S. $\frac{3}{4}$ W. from the westernmost of the Middle Islands, which lie within the Boat Islands, between them and Watagheistic.

Between the Middle Islands and Wapitagun, the coast is broken into coves, and lined with innumerable islets and rocks, among which hothing but a very small ressel, perfectly acquainted with the coast, could find her way. There is nothing worth notify except the Etemenu River, which enters the sea at 4 miles N.E. from Wapitagun : it is rapid, and there is a trading and salmon-fishing post at jis mouth. Mistassini Stone, situated upon the S.E. extreme of the outer Wapitagun Islands, is a remarkable block of granite resembling a mortar, and hence sometimes named the Gun by the fishers. It is an excellent guide to the eastern entrance to Wapitagun, from which it is distant three-quarters of a mile to the westward.

Southmakers Ledge lies S. $\frac{1}{4}$ W. $\frac{3}{4}$ miles from the Mistassini Rock; West 9 miles from St. Mary Rocks; and $\frac{3}{4}$ miles S. $\frac{1}{4}$ E. from Cape Whittle. The course from this dangerous reef to Greenly Island, near the entrance of the Strait of Belle Isle, is E. $\frac{1}{4}$ N., distance 128 miles. It is a small rock, which is never entirely covered in moderate weather; the extent of the reef around it is 130 fathoms E. and W. and 50 fathoms N. and S., and there is no danger near it. The soundings are very

WAPITAGUN HARBOUR is a long narrow channel between the outer islands of Wapitagun, which are of bare granite, and appear as but one island, and Wapitagun Island to the northward of them, and is completely sheltered; the western entrance to the harbour is sharp round the western extremity of the outer Wapitagun Islands, fathoms wide, and the harbour itself is narrow and unsuitable for resels about 80 or 200 tons.

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To enter from the southward with an easterly wind, siter for the eastern entrance, which has been indicated, and you will meet with nothing in the way. On the west side of the entrance there is a rock and ledge which shows, and therefore you must there are three small islets, and to the northward a cove, in Wapitagun Island, off it to the S.E. Leave all three islets to the left, passing close to them, and bear up but agood look-out ought to be kept.

To enter the harbour with a westerly wind, run down between the Southmakers Ledge and the Cormorant Rocks, which lie to the south of Lake Island, bearing to the north to pass the S.E. Cormorant Rock, at the distance of half a mile. This rock will be readily known from the Nest Rock, covered with birds and whitened by them, and 120 fathoms to the west of it; 400 fathoms to the N.E. of the S.E. Cormorant, is a two-fathom ledge, which must be left on the left. Then haul to westward a little, to as to leave the Slime' Rock or N.E. Cormorant, not less than 300 fathoms on your left, to avoid another two-fathom ledge, bearing N.E. & N. one-quarter of a mile from that rock. Passing close to the east of this, steer for the islet in the channel, which you will see between the west extreme of the outer Wapitagun Islands and Cormorant Point; but to pass to the eastward of Long Ledge, lying midway between Slime Rock and Cormorant Point, the course must not be above N.N.W. 1 W., or the west end of the before-mentioned islet, on with the high point, which is the east end of Lake Island, lying northward of the islet. When within 2 cables length of the islet, the harbour will begin to open to the eastward, when you must bear up quickly for it, leaving the islet to the northward, keeping 200 fathoms off the west point of the outer Wapitaguns, to clear a ledge lying off it, and when it bears to the eastward of north, proceed into the harbour and anchor where you please. The best berth is in a small bay on the south side of the harbour, 600 fathoms within the western entrance, in 7

CAPE WHITTLE, the south-west point of Lake Island, has many dangers off it to the southward and westward, the two outermost of which, named the Whitle Rocks, are half-tide rocks. All these rocks are steep, with from 20 to 40 fathoms water between them. The cape is considered to be in lat. 54° 10′ 44″ N., and long. 60° 9′ 46″. had hitherto maintained, to west. Wood can be obtained on Lake Island, but for The data of the main-land.

The flood from the eastward and ebb from the westward usually run past the entrance of Wapitagun, at a rate varying from a half to a mile; but both streams are much influenced by the winds.

THE GULF OF ST. LAWRENCE.

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PART III.

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THE GULF OF ST. LAWRENCE.

GENERAL REMARKS.

It has always been supposed that the navigation of the Gulf and River St. Lawrence is attended with considerable difficulty, and the numerous accidents constantly cocurring to vessels would seem to show that the opinion is well founded.

Captain Bayfield, R.N., has remarked that, "Among the difficulties of the navigation, may be mentioned the ice. In spring the entrance and the eastern parts of the gulf are frequently covered with it, and vessels are sometimes beset for many days. Being unfitted for contending with the danger, they often suffer from it, and are occasionally lost; but serious accidents from this cause do not frequently occur, because the ice is generally in a melting state from the powerful effect of the sun in epring. In the fall of the year accidents from ice seldom occur, except when the winter commences suddenly; or when vessels linger imprudently late from the temptation of obtaining, high freights.

But all danger from ice is far less than that which arises from the prevalent fogs: they may occur at any time during the open or navigable season, but are most frequent in the early part of summer; they are rare, and never of long continuance during westerly winds, but seldom fail to accompany an easterly wind of any strength or duration. The above general observation is subject, however, to restriction, according to locality, or season. Thus winds between the south and west, which are usually clear weather winds above Anticosti, are frequently accompanied with fog in the eastern parts of the gulf. Winds between the south and east are almost always accompanied with rain and fog in every part. E.N.E. winds above Point de Monts, are often E.S.E. or S.E. winds in the gulf, changed in direction by the high lands of the south coast, and have thereforp in general the same foggy character. I speak of winds of considerable strength and duration, and which probably extend over great distances. Moderate and partial fine weather winds may occur without fog at any seeson, and in any locality. In the early part of the navigable seeson, especially in the months of April and May, clear weather N.E. winds are of frequent occurrence, and they also sometimes occur at other seasons, in every part of the Gulf and River St. Lawrence.

The fogs sometimes last several days in succession, and to a vessel either running up or beating down, during their continuance, there is no safe guide but the constant use of the deep sea lead, with a chart containing correct soundings.

The fogs, which accompany easterly gales, extend higher up into the atmosphere, and cannot be looked over from any part of the rigging of a ship. They, however, are not so thick as those which occur in calms after a strong wind, and which are frequently so dense as to conceal a vessel within hail; whilst the former often, but not always, admit the land, or other objects, to be distinguished at the distance of half a mile, or more, in the daytime.

The dense fogs, which occur in calme, or even in very light winds, often extend only to small elevations above the sea; so that it sometimes bappens, that when objects are hidden at the distance of fifty yards from the deck, they can be plainly seen by a person fifty or sixty feet up the rigging. In the months of October and November the fogs and rain, that accompany casterly gales, are replaced by thick snow, which causes equal embarrassment to the navigator.

The prevailing winds, during the navigable season, are either directly up or directly down the estuary, following the course of the chains of high lands on either side of the great valley of the St. Lawrence. Thus a S.E. wind in the gulf becomes, E.S.E. between Anticosti and the south coast, E.N.E. above Point de Monts, and N.E. above Green Island. The westerly winds do not appear to be so mach, guided in direction by the high lands, excepting along the south coast, W.N.W., and N.W., as we ran down along the high and curved coast, until it became a N.N.W. wind at Cape 90

Gaspé. These winds frequently blow strong for three or four days in succession; the westerly winds being almost always accompanied with fine, dry, clear, and sunny weather; the easterly winds as frequently the contrary, cold, wet, and foggy. In the spring, the easterly winds most prevail, frequently blowing for several weeks in succession. As the summer advances, the westerly winds become more frequent, and the S.W. wind may be said to be the prevailing wind in summer in all parts of the river and gulf. Light south winds take place occasionally; but north winds are not common in summer, although they sometimes occur. Steady N.W. winds do not blow frequently before September, excepting for a few hours at a time, when they generally succeed easterly winds which have died away to a calm, forming the commencement of atrong winds, and usually veering to the S.W. The N.W. wind is dry, with bright clear sky, flying fouds, and showers. After the autumnal equinox, winds to the northward of west become more common, and are then often strong steady winds of considerable duration. In the months of October and November the N.W. wind hail and snow, and attended with sharp frost.

Thunder storms are not uncommon in July and August; they seldom last above an hour or two; but the wind proceeding from them is in general violent and sudden, particularly when near the mountainous part of the coast; sail should, therefore, be fully and quickly reduced on their approach.

Strong winds seldom veer quickly from one quarter of the compass to another directly or nearly contrary: in general they die away by degrees to a calm, and are succeeded by a wind in the opposite direction. I do not mean, however, by this observation, that they may not veer to the smount of several points. N.W. winds seldom or never veer round by north and N.E. to east and S.E.; but they do frequently, by degrees, to the S.W., after becoming moderate. S.W. winds seldom veer by the N.W. and north to the eastward, but sometimes by the S. to S.E. and E. Easterly winds generally decrease to a calm, and are succeeded by wind from the opposite direction.

In the fine weather westerly winds of summer, a fresh topgallant breeze will often decrease to a light breeze or calm at night, and spring up again from the same quarter on the following morning : under these circumstances only may a land breeze off the north coast be looked for. I have observed the same off the south coast also, but not so decidedly or extending so far off shore. I have occasionally carried the north land wind nearly over to the south coast just before daylight, but have never observed the south land wind extend more than five or six miles off, and that very rarely. Under the same circumstances, that is, with a fine weather westerly wind going down with the sun, a S.W. lend breeze will frequently be found blowing off the north coast of Anticosti at night and during the early part of the morning. ever, the weather be not settled fair, and the wind does not fall with the suh, it will usually prove worse than useless to run a vessel close in shore at night in the hope of a breeze off the land. Such is the usual course of the winds in common seasone, in which a very heavy gale of wind will probably not be experienced from May to October, although close-reefed topsail breezes are usually common enough. Occasionally, however, there are years, the character of which is decidedly stormy. Gales" of winds, of considerable strength, then follow/each other in quick succession and from opposite quarters.

The marine barometer, which is at all times of great use to the navigator, becomes particularly so in such seasone; and the following remarks upon its general indications, when taken in connexion with the usual course of the winds and weather in the St. Hawrence, may therefore be useful. The barometer has a range from 29 to 30.5 indees in the Gulf and River St. Lawrence during the navigable season, and its changes accompany those of the winds and weather with a considerable degree of constancy. The fluctuations of the 'barometric column are much greater and moreafrequent there than in lower latitudes; and audden alterations, which in other climates would be alarming, may occur there without being followed by any corresponding changes either in the wind or the weather. But the navigator should not be inattentive to those minor changes, as a constant attention to the instrument can aloue enable bim to appreciate those desistive indications of the mercury which seldom or never which usually indicate the approach of a gale of considerable strength, or of a anit

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THE GULF OF ST. LAWRENCE.

of wind and weather; the correct anticipation of which is often of the utmost importance to the safety of a vessel, as well as to the length of her voyage. When after a continuance of westerly winds and fine weather, the barometer has risen nearly to its greatest height, easy some tenths above thirty inches, or begins to fall a little, an easterly wind may be soon expected. If to this notice given by the barometer be added a warm hazy atmosphere during the day, and a heavy precipitation of dew at night, with very bright twinkling stars, or a coloured aurora borealis, the approach of an east wind is almost certain. If land be in sight at such a time, and appears much distorted by terrestrial refraction, or if vessels in sight have the relative proportions of their hulls and sails changed by the mirage, or present double or treble images, such appearances will render the more, probable indications of the barometer certain. At the commencement the easterly wind will probably he light with fine clear weather, but this will not last above a few hours if the barometer joinues to fall; on the contary, the wind will gradually increase, and as it does so the sky will be overcast by degrees until it is completely clouded. Both rain and fog will follow, and continue during the continuance of the easterly wind, with hitle intermission, uutil they are dissipated by a fresh breeze from the contrary quarter.

If the fall of/the barometer, during the continuance of the casterly wind, be very slow, the gale will probably continue, and not be very violent : if rapid, it will probably be of short duration, and of greater strength : at any rate, when the mercury falls towards 29 inches, a change is certainly at hand, and the gale will in general come from the N.W. The strength of this succeeding gale will be in proportion to the fail of the barometer, and to the strength of the easterly gale which preceded it. In such a case, there is seldom many hours' interval between the one gale and the other. The east wind generally dies away to a calm, and in a very few hours, or sometimes in much less time, the N.W. gale springs up. A heavy cross sea remains for some time from the previous gale. This barometer sometimes begins to rise in the interval of calm which precedes the N.W. gale, at others at its commencement : the fog and rain cease, and the weather becomes quite clear, generally in a few hours, and sometimes amost immediately. The strength of the westerly gale is usually greatest soon after its commencement, and diminishes as the barometer rises, veering gradually to the west and S/W. It is worthy of remark, that the circumstances just mentioned are exactly the reverse of those attending the easterly gale. The gale usually commences with clear weather and a high barometer, light at first from the sonth or S.E. and gradually increasing as it veers to the eastward, with a falling barometer. To return to the westerly gale. If, after it has veered to S.W. and become moderate, the barometer remains steady at a moderate height, fine weather may be expected. If of remains at a considerable height, but still fluctuating and unsteady, within certain limite, variable but not heavy winds, and variable weather, may be expected. If of the contrary, it rises quickly to a great height, a repetition of the easterly gale will not be improbable. We have experienced seasons in which the barometer may be said to have been no sooner blown up by one wind, than it has been blown down by another, and this stormy alternation to have continued for several months, whilst in others we have scarcely had a double-reefed topsail breeze during the while summer.

There is in fact so great a difference in the phenomena of the weather in different seasons, that it becomes very difficult to write anything respecting it that shall not be liable to many exceptions. There are, however, some strongly marked cases of connexion between the indications of the barometer and changes of the winde and weather, which, within our own experience of eight or nine years, have been subject to few, I might almost say no exceptions. The first of these cases is that most common one, which I have endeavoured to describe, of an easterly gale, with a falling parometer, being always wet and foggr, and enceeded by a strong wind from the opposite quarter with a rising barometer. A second case, not of so frequent cocurrence in common seasons, excepting in spring or early in summer, is the easterly will almost always become fine and clear, and end in fine weather. A third case may be considered certain : if the barometer fall suddenly and greatly, at any time, a northerly, and most probably a N.W. gale, of great strength, may be confidently exercised. It does not follow that it will be immediate, for it may be preceded by a strong gale from S.W., for a few hours, during which the barometer will seldom rise, and even, probably, continue to fall; but when the S.W. gale dies away, the northerly or N.W. will soon succeed, with a rising barometer.

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In conclusion, I may remark that as, on the one hend, a considerable fall of the harometer may occur, without being followed by a strong wind; so, on the other, a breeze of considerable strength may come on without any indication from the barometer, but not anything that deserves the name of a gale. There has never, within our experience, occurred a gale, so heavy as to be of serious consequence to a good vessel, the approach of which has not been indicated by the barometer. But it must be remembered that a high barometer, in this climate, and under the circumstances which I have mentioned, is often indicative of an easterly gale. It is remarkable that, in the gulf and estuary of the St. Lawrence, a high barometer may be considered as the forerunner of wet and foggy weather, which usually accompanies its fall; whilst a low barometer renders it equally probable that dry weather will ensue, since it often accompanies its rise. I am fully of opinion, that the marine barometer is of the greatest assistance in the navigation of the Gulf and River St. Lawrence, and that by attending constantly to its state and changes, with reference to the winds and weather which preceded them, combined with the indications afforded by the appearance of the sky, &c., those changes of the wind and weather, which are about to take place, may be anticipated with a degree of certainty sufficient, in most cases, to enable us to avoid being caught on a lee-shore, or in an unsafe anchorage, as well as to regulate our course in a voyage, in anticipation of the coming change.

An opinion is prevalent that the compasses of vessels are disturbed in the Gulf and River St. Lawrence, and such disturbance has been attributed to the magnetic ores of iron in the hills, particularly those of the north coast. The magnetic oxide of iron does exist abundantly, and attracts the needle very powerfully at some points, particularly along the coast from the Bay of Seven Islands eastward. Among the Mingan Islands, we found the variation to vary from this cause from 19° to 81° W. At Port Neuf, and on Manicousgon Point, the needle was also disturbed. But these effects were only noticed when the instrument was placed ou the shore. In two instances only, when sailing within two miles of the shore, have we observed any effect of the kind upon the compasses on board the Gulfnare (the vessel in which the survey was made), and then only to the smount of a few degrees.

When running from place to place, at greater distances from the coast, nothing of the kind has been noticed; so that I feel sure, that in nine cases out of ten where this source of erroneous reckoning has been alleged as the cause of accidents to vessels, they originated either in errors of the chart, or in the local attraction on board the vessels themselves."

CURRENTS, &c.-Capt. Bayfield, R.N., says-" It is a generally received opinion, that a current sets constantly to the south-eastward out of the Gulf of St. Lawrence, between Newfoundland and Cape Breton Island, and also that it is frequently deflected to the southward, towards the shores of the island last named, by another current from the northward, which is said to enter the Gulf by the Strait of Belle Isle.

I have myself observed that a current sets to be enter the Guil by the Strait of Belle Isle. Y Island, during westerly winds and in calm weather; but it is checked by easterly winds, and I believe that it may sometimes run in a contrary direction from the same cause. Northerly winds, and perhaps also the above-named current from the northward, may cause the stream to set to the southward towards Cape Breton Island. Bit the truth is that winds, both present and at a distance, possess so powerful and irregular an action upon the set and strength of the currents and tides in this entrance of the Gulf, that I can say nothing certain or definite respecting them.

The reality of a current inwards through the Strait of definite respecting them. the presence of iceberge, which it transports into the Gulf every summer, against the prevailing S.W. winds; frequently carrying them as far as Mecattina, and sometimes even to the neighbourhood of the east point of Anticosti. Its strength is very much increased by a prevalence of N.E. winds: at such times it rans at the rate of 2 knots, through the Strait, and for 30 to 40 miles further to the westward; diminishing gradually in force as it spreads out in the wider parts of the Gulf. Usually, however, its rate is much less. At times, when S.W. winds prevail, it becomes very weak; and it has even been reported to me, that a current has been observed setting out of the Gulf, in a contrary direction to the N.E., for days together, but this was never observed by us during either of the three seasons which we passed there. There is, however,

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erable fall of the , on the other, a on from the barohas never, within quence to a good er. But it must e circumstances remarkable that. be considered as s its fall; whilst ue, since it often ometer is of the nce, and that by nds and weather ppearance of the take place, may able us to avoid to regulate our

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weak; and it ng out of the lever observed e is, however, no doubt that this current is extremely inegular, as might be expected at the narrow outlet of a great inland sea, where winds, both within and without, must of necessity possess great influence.

After entering the Gulf, it runs along the north or Labrador Coast, at the distance of 2 or 8 miles from the outer islands; leaving a narrow space in shore, in which the streams of the tides, when uninfluenced by winds, are tolerably regular. Passing outside of Mistanoque, the islands of Grand Mecattina, and the Southmakers Ledge, it pursues a direction given to it by the trending of the coast, till it is turned gradually to the southward, by the weak current which is often found coming from the westward between Anticosti and the north coast, during westerly winds, and which is set off to the southward from Natashquan Point. The united streams continue their southern course at a rate diminishing as they become more widely spread, and which seldom exceeds half a knot; and, finally, joining the main downward current out of the St. Lawrence, of which an account will be given immediately, they all pursue a S.E. direction towards the main entrance of the Gulf, between Oape Ray and the Island of St. Paul. It is this current, from the northward, which is felt by vessels crossing from off the Bird Rocks wards Anticosti; and which, together with neglecting to allow for the local attraction of the compase, has been the principal cause of masters of vessels so often finding themselves, unexpectedly, on the south coast. Many shipwrecks have arisen from this cause near Cape Rosier, Gaspé, Mal Bay, &c.

Effect of the Tides on this Current.—Both these currents, viz., that from the northward, and the main downward current of the Str Lawrence, are modified by the tides, but in a way directly contrary: for the northern current, in through the Strait of Belle Isle, is accelerated by the flood, and checked by the ebb; whilst the other is accelerated by the ebb, and checked by the flood tide. These modifying causes, viz., the tides and winds, give rise to various combinations, and consequent irregularities, in the direction and strength of, these streams, which it is extremely difficult at all times to estimate and allow for correctly.

Main Ourrent of the River .- The current along the south coast appears to be superficial sat least we found it so in the lower parts of the Estuary, where observations upon the specific gravity of the water on the surface, and taken up from different depths, proved to us that the water of the St. Lawrence and its numerous tributary streams was widely diffused over the Estuary. It has also been observed that the current is strongest in spring, soon after the opening of the navigation, when the rivers are swelled by the recently dissolved snows of the winter. But, although, generally speaking, there seems no doubt that this current is the tribute of the St. Lawrence on its way to the ocean ; yet, in the upper part of the Estuary it is not alone, and at all times, caused by the discharge of the St. Lawrence, but depends also upon peculiarities in the set of the tides. Thus, when our observations had confirmed the truth of the report, that the current always ran down on the south side of the Estuary from a few miles below Red Island towards the Island of Bio, we could not at first account for the fact; for it appeared imposed that this could be the comparatively freeh water of the St. Lawrence flowing on the strate towards the sea, when we knew that the whole body of water a few miles above, from shore to shore, on either side of Hars Island, and also in the Saguenay River, was running up during the flood tide. Attention, and numerous observations, together with an examination of the temperature and specific gravity of the water, informed us that this was an eddy flood, which is thus explained.

The flood tide ascends in a wide channel more than 100 fathoms deep: when it arrives at the comparatively narrow pass formed by Green Island, Red Islet Reef, and the extensive sheals off the entrance of the Saguenay River, it is obstructed thereby, as well as by the shealness of the channel to the southward of Hare Island. There is not room for so great a volume of water to pass, and part of it is in consequence turned back, and forms an eddy flood, setting from below Red Islet Reef, towards the Razade Islets. During the ebb tide, the stream of the Saguenay sets over to the southward in the same direction, hence the current on that side is always down.

There is no upward stream of the tide (excepting so close in-shore as to be useless to shipe) all along the south coast from Cape Gaspé to a few miles below Red Islet, in consequence of the union of this eddy flood with the main current of the river; and they have, therefore, so much influence on the navigation that I shall endeavour to trace their course more particularly. Commencing from a short distance below the Red Islet Reef, the current is there very strong—about 4 knots. It decreases in velocity as it proceeds to the south-eastward, slanting over towards the Razace Islets; off which its rate is from 2 to 3 knots. It runs strongly along the northern edge of the Bask of Soundings off the south coast, upon which, especially in spring tides, a weak stream of flood will be found flowing in the opposite direction, and the boundary of the two streams is usually marked by a strong ripple. From Father Point to Cape Chatte, the rate of the dewnward curof the year.

During the ebb tide the stream rune down on both sides, stronger on the south than the north coast, and weakest in the middle of the Estuary. It is deflected, or turned off to the southward, by the Points Mille-Vaches, Bersimis, Manicouagan, and Point de Monts, and by the ebbing streams of the large rivers between them: a circumstance which should be carefully attended to by vessels coming up with a northerly wind; as they will infallibly be set over to the southward upon a lee shore, if they do not make the necessary allowance by keeping their wind well over to the north-

During the flood tide this stream still continues to run down outside the Bank of Soundings off the south coast, although with diminished velocity, and is felt about half way over towards the north shore. In the middle of the Estuary there is usually slack water; whilst along the north coast the stream of flood is regular in its recurrence, increasing in force as we ascend the Estuary. The strength of the stream of flood is greatest in-shore, and diminishes as we proceed over to the southward, till at strength and direction of the streams produce strong ripples in various parts of the Estuary, but their position varies with the different times of tide, and perhaps from other causes, so that they cannot asfely be trusted for any guidance to the seturn.

Round Point de Monts there is little or no stream of flood, excepting very close inshore; the downward current is constant, or nearly so, off that point; and it requires a fast-sailing vessel to beat round it against a westerly wind. Point de Monts turns this current over to the S.S.E., at a rate varying from 1 to 2 knote; so that a vessel, a rate varies to a standing over to the southward on the starboard tack, will be quarter; during her board tack to the northward she will be retarded, the current being then directly opposed to her course. When sailing at he rate of 4 knots, it will usually require only about half the time to go from near Point de Monts over most important circumstance, which it is necessary to carefully guard against, when weather.

Below Point de Monts the current is no longer felt near the north coast, nor, indeed, anythere to the northward of a line joining Point de Monts and Anticosti. It is confinat to the neighbourhood of the south coast, which it follows in its curve to the southward, running strongly past Cape Gaspé, Flat Island, and Bonarenture Island; whence, curving gradually to the south and S.E., it continues its course towards the entrance of the Gulf, with a rate very much leasened in consequence of the grad. River to Cape Gaspé is 3 or 4 leagnee; but this, I believe, is not uniform. When the vicinity of Magdalen River towards Anticost; part of the stream running round the weinity of Magdalen River towards Anticost; part of the stream running round the weinity of Magdalen River towards Anticost; part of the stream running round Mingane), whence turning gradually down outside the Mingan and Esquimaux Natashquan Point and is turned off to the southward, as has been already mentioned. The other part sweeps round the large ourve, or bay, between the west and S.W. eausing a great ripple off it, which has been mistaken for breakers on a much moreextensive reef that exists there.

I have noted the rate of this current, off different parts of the south coast between Capes Chatte and Gaspé, in the months of June, July, August, and September, and in different years, and scarcely ever found it the same. It varied between 1 and 2 kno and bre diff of that easy stro war swe from

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t, nor, indeed. sti. It is concurve to the nture Island; e towards the of the great om Magdalen form. When en over from unning round d (ane of the Esquimsux westward of ly mentioned. st and S.W. it, frequently a much more

oast between ptember, and cen 1 and 2 knots in weaking winds. It was weaker, often nearly insensible, in easterly winds; and in one instance, off Mont Louis River, in a calm which was followed by a strong breeze from the eastward, it could not be perceived.

Vessels beating up the St. Lawrence against westerly winds usually experience little difficulty in making good way to windward, after having weathered the west point of Anticosti and arrived on the north coast: because there is seldom any ourrent on that side, and the tides, although weak, are tolerably regular. It is in general very easy to beaf from the Soven Islands to Point de Monts; for there the stream of flood is stronger than the ebb; the latter, as well as the curfent, being turned off to the southward by Point de Monts. There seems, at times, also to be an eddy current there, sweeping round the great bay or curve between the above-named points. It sets off from above Egg Islet to the S.S.W.; and is the probable cause why vessels, which shape a direct course for. Point de Monts with a leading N.W. wind off the land at night, so often find themselves obliged to haul up for, or unable, to fetch the light."

ST. PAUL'S ISLAND, THE MAGDALEN ISLANDS, BRYON ISLAND, THE BIRD ISLETS, ANTICOSTI.

ST. PAUL'S INLAND. — This island is nearly 3 miles long, and 1 mile broad. The bearing and distance from the south point of the island to Cape North are, W.S.W. 4 W., 13 miles; and from the north point of the island to Cape Ray, the bearing and distance are, E. by N., 414 miles. The margin is rooky and precipitous almost all round, indented by coves, in which shelter, during the prevalence of certain winds, may be obtained. A small detached islet forms its N.E. point, which is separated by a very narrow channel, from a peninsula, between 300 and 400 feet high, which, together with the isthmus, is so precipitous as to be nearly inaccessible.

Two lighthouses are established on this island; one on the northern end, and the other on the southern point, one of which will always be open, unless to a vessel very near the contral rocks. The northern light is fixed, and isible six leagues all round the compass, except on the bearings between N. by E. and E. by N., when it will be obscured by the hills to the southward of it. The southern light revolves at about the same elevation as the northern one (140 feet), and is visible six leagues on all bearings, except those between West and S.S.E., when it is concealed by the land. At the southern lighthouse a bell is kept tolling in foggy weather, worked by machinery.

About a mile from the south point on the west side of the island, is. Trinity Cove, at the northern part of which is a provision post; and on the opposite side of the island is Atlantic Cove: a landing may be effected in either of these. The cove on the N.W affords a small and bold beach, about 150 feet long, where a landing may be effected, but generally with difficulty, by reason of the continual swell of the sea. The interior of the island rises into three hills, the highest being nearly in the centre, and terminating in a square summit of about 50 feet on each side, nearly perpendicular, and estimated to be about 500 feet above the level of the sea. The surface of the island is, in general, rocky, with some spots of marsh or bog, which probably supply the fresh witter issuing from the rock. Stunted fir and white birch trees are the only products of the isle, but some drift wood may be picked up.

There is anchorage all round the island, and close in-shore, which circumstance enables vessels to lie there with any winds, by shifting their stations as the wind and weather require; —a mode practized by the privaters of the United States during the late war. There are tolerably regular soundings off the north side, at the distance of half or three-quarters of a mile; on the N.E. side a bank lies off about three-quarters of a mile, with from, 7 to 8 fathoms of water. The general depth, of the soundings around the island, at half a mile from the shore, is from 20 to 40, but the water soon deepens to 100 fathoms, so that there is little or no warning by the lead when, approaching this island in foggy weather. There is a plentiful fishery of cod and a mackers around the coast, and also an abundance of seals.

mackerel around the coast, and also an abundance of scals. **MAGDALER** ISLANDS.—These islands form a obsin, in an irregular curved direction, and lie between the parallels of 47° 12' and 47° 39' N. The Magdalens, when first made from sea, appear like several hilly islands, with channels between ; but, on a nearer approach, they are seen to be all connected together, with the exception of Entry Island, by a double line of sand-bars and beaches, inclosing extensive lagoons, having very narrow entrances, by which the tide finds access and egress. In some parts these sand-bars are only a few feet above the sea, whilst in others they rise into hills of sand of considerable height. They appear to be increasing, since there are generally ridges of sand, with from 9 to 12 feet water, parallel to and from 50 to 100 fathoms outside the beach. Between these ridges and the shore there are 3 and 4 fathoms of water, a circumstance which has proved fatal to the orews of vessels wrecked upon these shores. The central parts of these islands attain an elevation of 200 to 580 feet. They contain a population of about 1100 inhabitants, whose principal dependence is upon the cod-fishery. Wood, for fuel, is scarce near the settlements, and especially from Entry Island; and water may be had from Amherst Harbour. These islands possess no harbours for ships; but there are three fit for small vessels, named Amherst, House, and Grand Entry Harbours. The names of the islands are Entry Island, Amherst, Grindstone, Alright, Wolf, Grosse, and Coffin Islands; exclusive of Bryon or Cross Island, and the Bird Islets, which lie more to the north.

AMHERST ISLAND.—The most southerly and principal island of the group is Amheret Island, which is connected with Grindstone Island by a double line of sandbars, enclosing an extensive lagoon, 5 or 6 miles long, and from 1 to 3 wide, the southern part of which is named Basque Harbour: it has three outlets into Plessant Bay; the southernmost is the deepest, but has only 8 feet at low water. To the east of this, and N.E. of the island, is Pleasant Bay, which is the best roadstead in the Magdalens, and the only one where vessels can venture to lie with all winds, during June, July, and August. The best anchorage is in 4 fathoms, with the rocky point of the entrance of Amheret Harbour bearing S.W. 1 W. two-thirds of a mile. Amheret Harbour is situated in the S.W. corner of Pleasant Bay; its entrance is very narrow and crocked, and over the bar is 7 feet least water.

The hills in the interior of Amherst Island rise to the height of 550 feet above the see. Towards the S.E. part of the island, and about a mile to the N.W. of Amherst Harbour, is the very remarkable conical hill, named the Demoiselle, 280 feet high. At 74 miles, N.W. $\frac{1}{2}$ W., from the western part of Amherst Island, is situated Deadman's Islet, which is about 3 cables in length, and $1\frac{1}{2}$ in breadth, and is about 170 feet high; a reef extends from it, about one-third of a mile, towards Amherst Island. At 7 miles, N. 60° E., from Deadman's Islet, and $6\frac{1}{2}$ miles, W.N.W., from Cell Islet is a very dangerous reef, named the White Horse, which is sout a cable's length in diameter, and has but 10 feet water over it; on it the see often breaks.

GRINDSTONE, ISLAND.—This island is the next largest of the group, being, in respect of size, intermediate between Amherst and Alright Islands. Its highest point is elegated 550 feet above the sea at high water. On the west side of the island is a dangerous reef, with 18 feet least water, named the Pierre de Groe Cap, which is seldom seen, as the sea breaks upon it only in very heavy weather, It lies N.E. by E. A. 6 miles from the White Horse; N.W. by W. from Hospital Cape; and 33 miles from Cape Is Trou, the nearest part of Grindstone Island; this reef, as well as White Horse Reef, may be cleared on the west side by not bringing Deadman's Islet to bear westward of S.W. 3 W.

Cape Alright ISLAND.—This island lies to the eastward of Grindstone Island. Cape Alright is the southern point of the Island, and is remarkable, the cliffs being of a greyish-white colour, with occasional brick red low down, and 400 feet high. The south extremity of the cape is low, with a small rock close off it. To the N.W. of Cape Alright, boot 22 miles, is the entrance to House Harbour; it is narrow and crooked, with only 6 fathoms water in it.

Alright Reef lies S. 80° E., 9} miles from Cape Alright, to the outer edge of the freef, which is 400 fathoms long by 300 wide; it is of white pointed rocks, having only 6 feet over them. To clear it on the S.W. side, keep the well-marked summit of Grindstone Island open to the sonth-westward of Cape Alright; and to clear the S.E. side of the reef, keep the east side of the woods of Wolf Island (seen over the bars,) open to the seatured of Shag Island.

WOLF ISLAND .-- From Grindstone Island the sand-beaches continue in a northeasterly direction, for 10 miles, to Wolf Island, which is about three-quarters of a mile long, with low sandstone cliffs; from Wolf Island the sand-beaches recommence

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and continue, with occasional sand-hille, 9 or 10 miles farther, to the North Cape in Grosse Island. A rocky shoal, of 3 fathome, named the Wolf Rocks, lies about half a mile from the shore off Wolf Island, and 10 miles north-sastward of Hospital Cape.

GROSSE ISLAND.—The northern point of Grosse Island is the North Cape of the Magdalens, and is a precipice of considerable height. The North Cape Rocks lie to the westward of the cape, the outermost being about 600 fathoms from the shore. The sandy beaches and hills continue, from Grosse Island, curving to the eastward, 6 miles farther up to the East Point.

The East Point of the Magdalens is of low sand, inclosing several shallow ponds, and having several sand-hills, extending westward to the N.E. Cape. 'Off the East Point is the Long Spit, a ridge of sand, with from 2 to 3 fathoms of water, extending 11 miles S.E. 1 S. from the point; and for 11 miles farther in the same direction the depth is from 4 to 6 fathoms. To clear this spit in 5 or 6 fathoms, take care not to bring Old Harry Head, the N.E. point of Coffin Island, to bear to the southward of west. It is extremely dangerous, and there is a heavy breaking sea on it.

Doyle Reef lies S.E. ; E. 6; miles from the East Point. The least water on it is 3 fathoms on one spot, and 12 to 18 fathoms all round it. It seldom shows, but is one of the worst dangers of the Magdalens. The only mark to clear it is the North Cape of the Magdalens open two-thirds of its breadth to the N.E. of the North-East Cape, which is a remarkable hill, 280 feet high, on East Island, which stands at the head of

Grand Entry Harbour, and can be seen over all the and-hills. COFFIN ISLAND.—This island lies to the S. Wird East Point, and its N.E. point, named Old Harry-Head, lies W.S.W. 41 miles from The Columbine Shoals are a patch of rocks, with only 8 fathoms on them, lying S.S.W. 1 W., 24 miles, from Old Harry Head. There are numerous small shoals and patches within them, towards Coffin Island, on some of which are only 8 feet. This is a dangerous part, and should not be approached at night, or during fogs.

The entrance of Grand Entry Harbour, situated at the S.W. eud of Coffin Island, is extremely narrow, and ought not to be attempted without a pilot. The depth in this entrance is not more than 10 feet least water, and the harbour itself is extensive and well sheltered.

At 6 miles W.S.W. from the entrance of Grand Entry Harbour, is Shag Island,

which is small and low, and out of the way of vessels. ENTRY ISLAND.—At 7 miles, S. } E. from Cape Alright, is the N.E. point of Entry Island, and the channel into Pleasant Bay lies between them, and also between Alright Reef and the Pearl Reef. The summit of Entry Island is 880 feet above the level of the sea, and is visible 8 or 9 leagues off, in clear weather. The red cliffs of this island are magnificent and beautiful, rising at the N.E. point to 850 feet, and at the south point to 400 feet. The S.W. cliffs of Amherat are also steep, but of less height; and as there is no land to the sonthward and westward, it cannot be mistaken.

The Pearl Reef is a small dangerous Reef of white-pointed rocks, having only 8 feet water over it. It bears E. by N., 44 miles, from the N.E. part of Entry Island, and S.E. 3 S., 84 miles from Cape Alright; even with a moderate swell the sea breaks heavily upon it. Demoiselle Hill kept more than half a point open to the northward of Entry Island, will clear it to the northward, and the same hill shut in with Entry Island clears it to the southward.

BETON ISLAND .- This island is about 4 miles long in an E. by S. and W. by N. direction, and is only a mile broad. The north side is the highest, and on the south side are some coves, where boats may easily land with the wind off shore. Its eastern end hears from the East Point of the Magdalend, N. by E. 1 E. 101 miles, but its S.W. point approaches to within 8⁴ miles of the North Cape of these islands. A reaf runs off from the S.W. end of the island 11 miles; another from its east end of a mile to the N.E.; and there is a third running off to the sonthward from the S.W. point of the island, 1; miles. Close to the eastward of the last of these reefs there is good anchorage, in 4 or 5 fathoms, or in 6 fathoms a mile from the shore. Small vessels often ride out heavy N.W. gales under this island, slose to the reef. Between Bryon and Magdalen Islands the soundings are regular; from 9 to 11 fathoms. excepting a patch of foul and rocky ground with 5 fathoms upon it, lying between S.W. | W. and W.S.W. from the west end of Bryon Island. Although the soundings in approaching Bryon Island are regular, great care must be taken in approaching

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the reefs before mentioned, as they are very steep, especially the one running to the southward.

THE MIND INLETS are small and not far apart: they are of moderate height, and flat and white at the top. In the passage between them there are rocks. The southermost is the largest; from the east end of the N.W. Bird Rock there extends a ledge of rocks.

Nearly midway between Bryon and Bird Islands there is a rooky shoal, said to have only 4 fathoms on it in one part, but not less than 7 have been found on it. This, as well as the patch 34 miles W.S.W. of Bryon Island, should be avoided by large ships in rough weather.

At 4 leagues to the eastward of the Bird Islands is the edge of the bank of soundings, on which are 55 fathoms. You should come no nearer the east side, in thick weather, than 40 fathoms.

ANTROGETZ.—The island of Anticosti lies at the entrance of the River St. Lawrence, and is about 40 leagues in length by 10 in breadth. It is of moderate height, being estimated to be nowhere more than 700 feet high, and is extremely barren, affording scarcely any support for the few quadrupeds which inhabit it. Although so destitute of sustemance, yet streams of fresh water may be found on every part of the coast, but generally too small even for boats. These streams become rapid immediately within their entrances; and even the largest of them, Observation River, to the westward of the S.W. Point, is barred with sand, excepting for short intervals of time after the spring freshest or heavy rains. There are no harbours or anchoring places suitable for large vessels. The only inhabitants are the people in charge of the lighthouses and provision poets, and at Fox Bay at the east end of the jand.

bouses and provision poets, and at Fox Bay at the east end of the island. Upon the island there are various provision posts established by the Government of Lower Canada for the relief of castaway crews, one of which is at Ellis Bay, 2 leagues S.E. from the west end of the island; the second at the lighthouse on the S.W. Point; a third at Jupiter River or Shallop Creek; and a fourth at Heath Point.

There have also been placed direction boards at different parts of the island, near the beach, to assist persons, who may have had the misfortune to be wrecked, in finding the provision posts above mentiohed, which are nailed to trees with their branches cut off, to render the writing visible. They are or were placed as follows:-lst, on the west point of the island; 2nd, 4 leagues south-eastward of Ellis Bay; Srd, 10 leagues westward of Jupiter River; and the 4th,7 leagues eastward of Jupiter River.

Lighthouses .- There are now two excellent lights established on this island.

The S.W. Point Lighthouse is built on the extremity of the point. The tower is of the usual conical form, 75 feet high, and shows a bright light, revolving every minute, which can be seen from N.N.W. round by west and south to S.S.E. $\frac{1}{2}$ E. The lantern is 100 feet above the level of high water, and can be seen 15 miles from the deck, and 19 $\frac{1}{2}$ miles when the eye is elevated 50 feet. To the lighthouse is attached a provision post, which forms a conspicuous landmark.

Heath Point Lighthouse is of the same form, dimensions, and colour as that on the S.W. point of the island. It shows a bright fixed light from W.N.W. to N.E. by N., at 100 feet above the sea, and can be seen 5 or 6 leagues in clear weather. It was first lighted in October, 1848.

EAST CAPE.—The East Cape, in lat. 49° 8' 25" N., and long. 61° 39' 59" W., is a perpendicular oliff, 200 feet high. To the southward of it, at the extremity of the low land, is Heath Point, with its lighthouse. This building at a distance appears like a sail, and is useful in marking the extent of low land to vessels either to the east or west of North. Between Heath Point and East Cape is Wreck Bay, in which there is no anchorage.

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A dangerous reef rune off Heath Point about 2 miles in an E.S.E. direction; beyond which are 5 fathoms, increasing to 7 fathoms at the distance of 8 miles from the point. To avoid it, come not nearer to the east side of the point than 20 fathoms; to the south-westward of the point the sheal water only extends off three quarters of a mile. A little farther to the westward is one of the best open anchorages on this side of the island, where you may anchor in 10 fathoms, with the lighthetise bearing E. by N., and Cormorant Point W.N.W., on a bottom of sand and mud, at nearly 2 miles from the shore.

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THE QU. OF ST. LAWRENCE.

Heath Point, for the winds coming along the land on each side of the island, sometimes do not meet until several miles to the eastward of the point. Between them you will be becaimed, and a strong current round the point might set you upon the reef. About 6 miles W. by N. from Heath Point is Cormorant Point, beyond which, at the distance of 164 miles, is South Point, off/which a reef runs nearly 14 miles, outsing theavy breakers. To clear this reef at the distance of 2 miles, bring Heath and Cormorant Points in one bearing E. by S./ South Point has a beacon 40 feet high upon it, situated in lat. 49° 3′ 48° and logg. 62° 18′ 30° W.

From South Point to the lighthouse on the S.W. Point, the distance is 56 miles,

And the intervening land has a similar appearance throughout. Between these points are the Jupiter River or Shallop Creek/Parilion River, and Salt Lake River and Bay. At Jupiter River, which lies 18 milds N.W. of South Point, are the houses of the provision establishment. Pavilion River lies 10 miles from Jupiter River, and its locality may readily be distinguished by the beacon erected near it, between, the coast is all low, but may be approached safely by the deep-sea lead, the reefs nowhere extending more than 14 miles off. At nearly 21 miles to the north-westward of Derillow River we safe Late River and Reg more the SW Boing the safe is the s Pavilion River are Salt Lake River and Bay, from whence to S.W. Point the coast is higher and bolder, and should be approached with caution in foggy weather. When standing in-shore at night do not bring the lighthouse to bear to the westward of N.N.W. Off the centre of Salt/Lake Bay is indifferent anchorage in 7 fathoms, which must be very cautiously taken; six miles eastward of this bay there is a beacon, the latitude of which is 49° 17' 30'', and the longitude 63° 20' 30'' W. S.W. POINT.-The S.W. Point is a low point, with a small cove on its north side,

and has a reef running off /it about half a mile towards the west and south-west, 2 miles ontside of which are 30 fathoms. In this cove vessels may anchor in 12 or 13 fathome, sand and gravel with the extremity of the point bearing S.S.W. 1 W., dis-tant three-quarters of a mile, sheltered from N. by E. to S. by W.; but the anohorage is not recommended, being exposed to westerly winds, and the ground being indifferent. Hence to Ellis Bay the coast is lined by reefs extending out, in most parts, about a mile, with 10 or 12/fathoms close to them; and there is no safe anohorage for

vessels. In running/down this shore the lead should be kept going. About 5 miles to the northward of S.W. Point is Observation River, the largest stream on the island, having 5 or 6 feet water at the entrance, but barred with southwesterly gales. On the north side of the river are some high sandy cliffs, and 16 miles farther westward are some others, named the St. Mary's Cliffs, of less height and less remarkable, but not difficult to distinguish, as their situation is pointed out by a beacon, in lat. 49° 40' 30", and long. 63° 58' W. Beyond St. Mary's Oliffs at the distance of/7 miles is a small stream, falling into a cove, named the Becscie River ; this cove affords shelter for boats.

ELLIS Bay affords tolerably good anchorage. Its east point is named Cape Eagle, and its west/point Cape Heury. 'A reef of flat limestone runs off a mile south-westward from Cape Henry; and

another reef runs off three-quarters of a mile to the westward from Cape Eagle; the entrance between them is 600 fathoms wide, from 8 fathoms on each side. Both the reefs show themselves by a line of breakers.

In approaching this bay from the westward, run down along the reefs off Cape Henry/in 10 fathoms, until the west side of the White Cliff, which is on the east side of the bay, comes on with the east side of the westernmost of two hills, back in the country, bearing N.E. # N., then haul up with these marks on, which will lead you into smooth water, close under Cape Henry Reef, in 31 fathoms - Continue running on /until Gamache House bears N. by E., then haul up for it, and anohor in 3 fathoms, muddy bottom, about half a mile from the flats at the head of the bay, and 300 fathoms from those on either side. Keep the lead constantly going.

In running for the hay from the eastward, with an easterly wind, keep along Cape Eagle Reef, in no less than 7 fathoms, till the east side of the White Cliff comes, on with the cast side of the same hill, as before ; then haul up till the houses bear N. by E., and proceed as before. It is high water at Cape Henry, full and change, at Ih. 43m.; spring tides rise about 7 feet, neaps, 4 feet.

Ellis Bay may be readily known by Cape Henry, which is a bluff point, and the land at the head of the bay being low causes the entrance to show distinctly. Two ridges of hills, back in the country, will help to distinguish it.

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WEST POINT is low and wooded, with reefs extending not more than a mile from the shore. It may be safely rounded in 15 fathoms, at the distance of 14 miles. Between West Point and Ellis Bay, the shore is lined with reefs to the distance of 14 miles, it must not therefore be too closely approached.

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The coast from West Point to North Point is low, with reefs running off about a mile, and should not be approached nearer than 25 fathoms. From North Point to High Cliff, the distance is 13 miles, with a moderately low and wooded shore. High Cliff may be easily known by being the only one on the island that has not its base washed by the sea. White North Cliff lies 20 miles south eastward of High Cliff; this part of the coast

White North Cliff lies 20 miles south-eastward of High Cliff; this part of the coast is dangerous, for at about one-third of the distance from High Cliff the reefs extend fully 2 miles from the laid, and continue so for some distance. On approaching White North Cliff they only reach about half a mile from the shore. White North Cliff may. be seen 6 or 7 lagues off, appearing like a white patch. Carleton Point lies 10 miles south-eastward of White North Cliff; under this point

Carleton Point lies 10 miles south-eastward of White North Cliff; under this point vessels may anchor in fine weather, and procure wood and water. About 10 miles south-eastward of Carleton Point is Cape Observation, which, bold

About 10 miles sonth-eastward of Carleton Point is Cape Observation, which, hold headland, under which vessels may anohor during westerly winds and fine weather, and obtain supplies of wood and water very conveniently. Farther eastward, at the distance of 12 miles, is Bear Head, a similar headland to Cape Observation, and 400 feet higb, which last-named cliff may be easily recognized, as there are no high cliffy headlands of equal height to the westward of it.

Between Bear Head and Cape Robert is Bear Bay, which is considered to be the best readstead on this part of the coast of Anticosti; as the bottom is excellent, the depth moderate, and the shelter extends from 1N.N.W. round by west and south to S.E. by S. It is divided by two high eliffs, into three bays, in each of which is a fine beach of sand and shingle and a fresh-water stream. The best anchorage is in 18 fathoms with Tower Point (the southernmost of the cliffs) bearing N.W. 4 W., Cape Mobert S.E. 4 S., and Bear Head N. by W. $\frac{7}{4}W.$

To the south-eastward of Gape Robert, distant 19 miles, is Table Head, remarkable by its hill of a table form, immediately behind it; the coast between contains several small bays, but no anchorage. Four miles farther is Fox Head, much lower than Table Head; and to the southward of the head is the bay, affording good anchorage for small vessels during the summer months. The southern point of the bay is named Reef Point, and has a reef running off it fully 14 miles, close off the end of which are 10 fathoms, so that to avoid it vessels should not spproach nearer than 18 fathoms. The north point of the bay has also a reef running from it, fully half a mile. Winds from E. by N. to E.N.E. blow directly in.

Hence to East Cape the coast is cliffy and about 100 feet in height, but bold and free from danger. About half way is Cape Sand-Top, between which and East Cape vessels may anchor during westerly winds, in 16 to 20 fathoms, fine sand, at a mile from the shore.

THE NORTH COAST OF THE GULF.

CAPE WHITTLE TO THE MINGAN ISLANDS.

THE first bay to the westward of Cape Whittle is Wolf Bay, a place full of rocky ledges, but which, however, all show. On the west side of the bay is the island of the same name, of a greater beight than the islands usually are off this part of the coast, being about 150 feet high, hence it is easily recognized; outside of it is a small low islet.

To the westward of Wolf Islet is Coaccache Bay, affording the only anchorage for large vessels on this part of the coast, and which is represented to be easy of access, although the number of islets and rocks scattered about would convey a different impression. At the head of the bay is the Basin, an excellent harbour, and another

CAPE WHITTLE TO THE MINGAN ISLANDS.

harbour is formed by an arm running in an E. by N. direction, named the Tertiary Shell Bay, which is equally safe. Farther out than these harbours the bay is more than half a mile wide, and quite sufficiently sheltered for the safety of any vessel with good anchors and cables.

Outside the entrance of the bay are two small dangerous ledges, named the South and South-west Breakers, the first of which has only 12 feet on it, and shows only in heavy weather; it lies W.N.W. $\frac{1}{2}$ W. from the small low islet outside Wolf Islet, and is the outermost of any danger on this part of the coast. The South-west Breaker has but 3 feet on it, and bears N. W. by N. 24 miles from the South Breaker, and west 24 miles from Point Audubon, the west side of the bay.

The passage into the bay lies between these breakers, and in sailing in, the rule is, to leave Outer Islet (the low islet off Wolf Island) and the rocks to the northward of it, 300 fathoms to the eastward, and when abreast of these rocks, a chain of low rocks, extending off to the south-west of Emery Island, will be seen right ahead. Bring the point of this chain to bear N.E. $\frac{1}{2}$ N., when it will appear on with the extreme point of the mainland, on the N.W. side, near the head of the bay, and run in on this mark, and then haul to the northward a little, so as to leave the Emery Rocks on the starboard. Their outer point bears N.M.E. $\frac{1}{2}$ E., 8 miles from Outer Talst, and when up to them, the bay is open before you, and clear of danger. The farther in, the better the ground, and the least he, swell with S.W. winds, which are the only winds that send any swell into the bay. Tertiary Shell Bay is quite clear, excepting a small rock, one quarter of a mile within the entrance, which from δ to 11 fathoms, muddy bottom.

To enter the Basin, you leave Tertiary. Shell Bay, and the point of low rocks to the northward of it, to the east, and continue the course till within half a mile of the island, at the head of the bay. 'Then steer over to the eastward, towards that island, to avoid a shoal of boulder stones, extending 200 fathoms off the west side of the bay, leaving a deep channel between it and the island, 100 fathoms wide. Leave the island 50 fathoms to the eastward, and as you pass through, the water will deepen from 9 to 19 fathoms, and as soon as you are past the inner end of the island, haul to the N.W., into the mouth of a small bay, anchoring in 8 fathoms, over inud, and perfectly sheltered. On the east side of the entrance of the river, is a house occupied for furtrading and salmon-fishing.

In running for the bay from the westward, you may either pass between the Southwest and South Breakers, by bringing the inner or N.E. end of Wolf Island to bear East, and steering for it; or by bringing Outer Island to bear nothing to the southward of East, and running towards it, until you are within less than a mile, when you may haul in for the Emery Rocks, as before.

Thirteen miles to the westward of Coscoseho Bay is the River Olomanosheebo, Paint, or La Romaine, for each of these names it bears. It is very sheal, and has a trading post on its east side, and can scarcely be seen from the sea on account of the islets, but may be known by the low sandy cliffs, covered with spruce trees, on either side of the entrance. The coast to the castward and westward is fronted with innumerable islets and rooks. When sailing to the westward, soon after leaving the river, you will see Treble Islet and Loon Rocks; the latter are 3 miles from the main and always visible, and are the outermost dance's on the part of the coast.

and always visible, and are the outermost dangers on this part of the coast. Wash-sheeootai Bay, 10 miles west of Olomanosheebo, has off its entrance several small rocky ledges, making it very difficult of access. Three miles within Cloudberry Point, the western point of the bay, the bay contracts to a very narrow inlet, with several rocks and islets in it, and after proceeding about 8 miles you will reach a trading post of the Hudson Bay Company.

Musquarro River, another post of the Hudson Bay Company, 44 miles westward of Cloudberry Point, is situated 3 miles within the west point of a bay full of small islets and rocks, and becomes narrow and rapid just within the entrance. It will be known by the buses on the east side of the entrance, and also by a remarkable precipitons red ridge of granice, about 200 feet high, and 2 miles to the west of the river. It can be used only by boats and very small vessels.

KEGASHIA BAT.-About 41 miles to the westward of Musquarre River is Ourlew Point, having off it several low bare rocks and ledges which are always visible; this

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orage for f access, different point forms the eastern alde of Kegashka Bay, a wild place, safe only in fine weather and has a sandy bottom with bad holding ground. The weatern aide of the bay is Kegashka Point, consisting of an island nearly joined to a rocky peninsula, and distinguished from all other islands on this coast, by being partly covered with spruce trees. A chain of small islets, wide apart from each other, afford very indifferent shelter from the prevailing southerly winds, and the heavy sea which they roll in upon the coast. The best berth is in the N.W. corner of the bay, where the vessel must be moored with an open haves to the eastward, and have a third auchor on shore to the S.W. so as to be able to haul close in under the point, in the S.W. and southerly gales; her bows will then be within 15 or 20 fathoms of the rocks, and the spray of the sea, breaking on the point, will reach her bows.

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To enter the bay, the best channel is between a small and low black islet, lying between Green Island (which is covered, with grass, three-quarters of a mile eastward of Kegashka Point) and Kegashka Point. This channel is 170 fathoms wide, and 8 deep, and is quite cleat; the only direction necessary when coming from the westward, is to give the south extremity of Kegashka Point a berth of a quarter of a mile, or to go no nearer than 8 fathoms; then run along the east side of the point, which is quite bold, leaving all the islets on the starboard hand. Three-quarters of a mile on a N.E. $\frac{1}{2}$ N. course, will bring you to the narrow channel between the westermost islet and the inner end of Kegashka Point; haul round the point to the north-westward, at the distance of half a cable, and when within it, anchor as before stated.

La scorning from the eastward, give Curlew Point a berth of half a mile, and run N.W. 4:N. 34 miles, till the inner end of Kegashka Point bears North, and then proceed as before. It is high water on the days of full and change of the moon at 10⁴/₂h., with a rise at spring tides of 5 feet.

Three miles to the westward of Kegashka Bay is the river, which affords only shelter for boats. Within the entrance there is a fishing station.

NATASHQUAN POINT.—From Kegashka River the coast runs 15 miles to the weatward to Natashquan Point, in nearly a straight line, and presents nothing remarkable, consisting principally of a sandy beach in front of sandy oliffs covered with spruce trees.

Nearly 5 miles to the westward of Kegashka River, and 11 miles off shore you will meet with a rocky shoal, which should not be approached nearer than 17 fathoms, not having been examined.

Two miles before reaching Natashquan Point is Mont Joli, a small eminence, scarcely distinguishable. Captain Bayfield remarks that "Mont Joli has no existence, at least there is no mountain, nor even anything that deserves the name of a hill; but near the termination of the sandy cliffs, which end at the S.W. extremity of Natashquan Point, the sandy ridge, with spruce trees, rises into a alight mound, a very little higher than the rest of the country. This is Mont Joli; but so little remarkable in its appearance that we should not have noticed it, had it not been for its name."

The Cod Banks off this part of the coast, are of sand, gravel, and broken shells, and have 24 to 40 fathoms on them. They are from 6 to 11 miles from the shore, with 50 fathoms between. There is a small cod bank, with 44 fathoms least water, at 34 miles S.W. from the S.W. end of Natashquan Point.

On the west side of Natashquan Point is the river of the same name, having an entrance of about a mile in width. An island divides this entrance into two narrow channels, the northernmost of which is nearly dry, but the southernmost has 9 to 11 feet water at high tide. At the distance of half a mile from the island, on the south shore, there is a trading-post and fishery. Above this the river is navigable only for boats.

At the distance of 34 miles from the river, is Little Natashquan Harbour, formed by a number of islets and rocks, and fit only for small vessels. The entrance to it is between some islets on the east, lying near the month of the Little Natashquan stream, the westernmost of which is much the largest, and on the western side is a rather high and round-backed islet of grey granite, with a wooden cross on it. Off this islet a rest extends S.W. by S. rather more than half a mile. Between the two sides of the entrance, is a central reef, part of which laways shows, and which is bold to, on its east and south sides; the other sides must have a berth in passing

CAPE WHITTLE TO THE MINGAN ISLANDS.

them. To enter the harbour, having arrived in 12 fathoms at half a mile distant from the harbour, and made out the islets at the entrance, bring the west point of the longer island on the east side, to bear N.E. by N., and the islet with the cross on it will bear N. by E. $\frac{1}{2}$ E.; and then ister for the latter, till abreast of the outer part of the reef to the westward, and then bear sufficiently to the eastward to pass on either aide of the central reef, keeping clear of the sheal water on its north and northeast ends, and anchor in the centre of the harbour in 4 fathoms, with the rock of the central reef bearing S.S.W. 4 W. 180 fathoms off, and the cross N W by W.

central reef bearing S.S.W. 1 W., 180 fathoms off, and the cross N.W. by W. 1 W. Five miles to the N.W. of Little Natashquan is Washtawooka Bay, an infricate and dangerous place, full of small islets and shoals. Outside the bay is an islet or rock larger than the rest, named Shag falet, which will help to distinguish it. Ten miles from Little Natashquan is Agwanus River, a stream difficult of access on account of the small rocks at the batrance; and 5 miles farther is Nabesippi River, only admitting boats in fine weather, with a trading station on its west bank.

Hence to the westward are Pashasheeboo, Müshkoniatawee, and Washatnagunashka Bays, which are full of rocks and too difficult of access for a stranger, although visited by the coasting vessels. Beyond these are the bays of Quetachoo Manloouagon, Peashtebai, and Appeeletat, to which a similar observation may be applied.

A good mark to know this part of the coast is Watcheeshoo Point on the east side of Quetachoo-Manicouagon Bay, which is composed of granite, 127 feet high, and bare of trees; it is a peninsula, having the appearance of an islet, higher than the rest, when seen from a distance. It bears E.S.E., 14 miles from St. Geneviere (one of the Mingan Islands) and N.W. by W., 18 miles, from Nabesippi. Tuland, 6 miles from this, is the Saddie Hill, 374 feet high. Along the coast between the Natashquan and the Mingans, there are innumerable small and bare islets and rocks, but nowhere extending from the points of the main beyond 24 miles. A versel, therefore, ought not to approach nearer than 20 fathoms.

THE MEXICAN INFORMATION are low, and estimated nowhere to attain an elevation exceeding 300 feet above the sea, being in general much lower. They possess very little soil, but nevertheless are thickly wooded with spruce, birch, and poplar, on the side towards the mainland; though towards the sea, barren tracts often occur, composed either of bare limestone, or of banks and ridges of limestone gravel. Supplies of wood and water can readily be obtained from the principal islands, wild berries are soundant in their season, and so are different kinds of wild fowl. Quadrupeds are scarce, but there are plenty of seals upon the limestone reefs, and a few cod fish off the cost.

The coast of the mainland proceeding from west to east, from St. John River to Minggan, is of sand and clay, low and thickly-wooded, and with a fine sandy beach. Farther eastward the shore is sometimes of granite, and at others of limestone, the latter rock lying immediately aver the former.

Monnt St. John, 1416 feet high, is the highest paint of the mainland in this neighbourhood. There are other hills, estimated at 1000 feet above the sea, about 6 leagues farther eastward, about 6 or 7 miles inland, and hearly opposite Quarry lealand. With these exceptions the main is low, especially opposite the Eastern Islands, where the hills are far back in the country.

The tides among these islands, naver exceed a knot, excepting in very narrow channels. They are often rendered irregular by the winds, but in fine settled weather there is a constant alteration of the streams of flood and ebb between the islands and the main, and also within the distance of 2 or 3 miles from the southern shores of the islands.

None of these islands, of which there are 29, are inhabited, some of them are very small, and the largest does not exceed 11 or 13 miles in circumference. They are arranged parallel to the coast, and extend along it 45 miles from St. Genevieve Island, the easternmost, to the Perroquets the westernmost.

Clear Water Point, which is 14 miles to the westward of St. Genevieve, projects out so as to interrupt, the continuation of the chain of islands, and thus separates them into two divisions, the easternmost of which has been named the Equimaux Islands, a name which should be confined to the island, property so called in the western division.

St. GENEVIEVE, the easternmost of the Mingan Islands, is about 5 miles in

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ECOMPT ST. CHERTVIEVE is an isolated table hill on the mainland, of limestone, 339 feet above the level of high water, bearing N. + E. rather more than 2 miles from the N.E. point of the island of St. Genevieve. This mountain, and the high N.E. point of the island, distinctly point out to a vessel at sea, the position of the ohannel between the island and the main. There are two patches of rock which render it necessary to approach the island of St. Genevieve with caution, viz. the Saints, and the Bowen Rocks.

The Saints are two low and bare rocks, lying about three-quarters of a mile to the south of St. Genevieve. There is a channel of 5 fathome deep, but with foul ground, between them and the island; and reefs under water extend from each of them fully 300 fathoms to the south, S.E., and S.W.

The N.W. Bowers Rock, with 3 feet least water, lice about 14 miles E.S.E. 4 E. from the eastern Saint, and with the south side of the latter on with the centre of the western Saint.

The S.E. Boson Rock, with 6 feet least water, lies two-thirds of a mile S.E. 1 S. from the north-west Bowen Rock, and S.E. by H. 1 E., 11 miles, from the eastern Saint, which is just open to the northward of the western Saint. These very dangerous focks lie nearly in a line from the S.E. point of St. Genevieve, at the distance of 14 and 2 miles, respectively. There is very deep water between and close to them, and also for rather more than again to the southward of them and the Saints. The soundings are here extremely irregular, varying from 4 and 6 fathoms rock to 43 fathoms sand, sometimes in a single cast of the lead. The whole of this dangerous part should be avoided by vessels.

HUNTING ISLAND, the next westward of St. Genevievé, is low, thickly-wooded and brokan into many coves, fringed with small isless and rocks on all sides, excepting towards the mainland; it is about 11 miles in circumference. It is longest diameter is parallel to the coast, and about 4 miles. Off its S.W. point, and extending to the distance of 14 miles, lie Wood and Gun Islands, leaving no passage between, and having reefs running out from them 300 fathoms to the southward. They are both low, and the latter is bare of trees, but covered with grass and peat, in which multitudes of puffine burrow and rear their young.

The Garde Rock, always above water, lies rather more than a mile off to the southward, from near the centre of Hunting Island; it would be highly imprudent for any ship to attempt a passage between it and the island, as there are many ledges scattered along the southern side of the island, and the Garde is itself the termination of a long ridge of surker rocks. The south-eastern end of the island is likewise beset with several reefs, some of which extend three-quarters of a mile to the southward.

Collins Shoul, a small patch of rocks, with 12 feet least water, lies 24 miles south, from the S.E. point of Hunting Island. The marks on this dangerous shoal are the east point of St. Genevieve just open to the castward of the western Saint, bearing N. 88° E., and the north point of Wood Island on with the south side of the Garde Rock, bearing N.W. Between Collins Shoal and the reefs off the S.E. point of Hunting Island, the soundings are irregular, from 4 to 17 fathems over rocky bottom, and vessels should not pass there, as in such a place it was impossible to be sure of, having discovered every point of rock which may approach a few feet nearer the surface than the rest.

ST. GENEVIEVE AND BETCHEWUN HARBOURS.—The first is situated between the island of the same name and the mainland, and the second, between Hunting Island and the main. Both are excellent harbours, not difficult of access or egress, and fit for the largest ships. There are two channels leading to these harbours; namely, the East, and the Saints Channels.

To enter by the *East Channel*, with an easterly wind, observe the following directions:—Being at a distance from St. Genevieve Island, of not less than 3 miles, to be sure that you are farther out than Bowen Rocks, bring the N.E. point of St. Genevieve in one with Indian Point (a low wooded point of the main, forming the east point of Pillage Bay), bearing N. 35° W. Run in with this mark on, and you will be the Bowen Rocks half a mile to the westward, and will pass them in between 20 and 30 fathoms, over a bottom of fine sand and coral. When the S.E. point of

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ween the sg Island s, and fit namely, ng direcmiles, to int of St. ming the , and you . 'between . point of St. Genevieve and the west Saint come in one, change your course a little to the northward, so as not to go too near a flat shoal, which extends nearly 300 fathomefrom the seast side of St. Genevieve. Give the N.E. point of St. Genevieve a borth of a cable's length, and passing as close to the shingly north point of that island as you please, bring up in 10 fathoms, mud bottom, half-way between the latter and Anchor Island, which will be seen lying close within the N.W. point of St. Genevieve.

If you wish to proceed to Betchewun Harbour instead of anchoring at St. Genevieve, pass to the northward of Anchor Island, which is quite bold on that side, and you will see the entrance of Betchewun (between the north point of Hunting Island and Partridge Point) bearing W. by N. Mount Partridge, on the N.E. side of the point of the same name, will be easily recognized, being a wooded and steep-sided hill, similar to, but much lower and smaller than Mount St. Genevieve. The north point of Hunting Island is also a cliffy mound, with a cove on the east side of it. It is quite bold and you must pass does to it, to avoid the sheal of Partridge Point, which extends a full quarter of a mile to the southward, and diminishes the navigable breadth of the entrance to 850 fathoms. When in the entrance, you will see a low islet in the centre of the harbour; steer for it, and anchor with it bearing W. by N., and distant one-third of a mile. The depth of water in the harbour is from 9 to 18 fathome, over-mud bottom.

The distance screes from the N.E. point of St. Genevieve to the main is about a mile, but the navigable breacht of the extrance is reduced to half a mile, by the rocks and sheal water off Ledge Point, which is composed of numerous rocks of granite close together. The sheal water extends from Ledge Point directly across Fillage. Bay, to Partridge Point, and you must not approach these sheals nearer than 7 fathoms. This east channel is the best with easterly winds, and may be used with moderate westerly winds during the flood tide, by vessels not too large to work in such narrow channels, but they must be careful in their boards to the northward, especially in that towards Ledge Point.

Saints Channel.—To enter Bt. Genevieve and Betohewun Harbours by the Saints Channel, observe the following directions:—Bring the west points of St. Genevieve and Anchor Islands in one, bearing North, at a distance of not less than 5 miles fromthe former, to be sure that you are outside of Collins Shcal. Run in upon this leading mark, until the north aidee of the two Saints come in one, bearing E.S.E. § E. The east sides of Mount Partridge and of Hunting Island (or rather of an island joined to it at low water) will come in one at the same time, bearing N.W. by N.; steerupon this last-named leading mark (to avoid a reef which extends 280 fathoms from the S.W. point of St. Genevieve), until the east side of Mount St. Genevieve, seen over the sandy S.E. point of Anchor Island, comes in one with the N.W. point of St. Genevieve Island, bearing N.N.E. § E. Change your course now to north, which will take you in through the centre of the channel between St. Genevieve and Hunting Islands, and you may either proceed to St. Genevieve Harbour, round Anchor Island, giving its west end a berth of 3 cables' length, or to Betohewun Harbour along the N.E. side of Hunting Island, which is quite bold.

The directions just given for the Saints Channel will lead a ship in between the dangers off St. Geneviews and Hunting Islands, in not less than 30 fathoms water, and she will not have a less depth until she is in as far as Anchor Island. The breadth of the channel between the shoal water off the Saints, and the shoals off the S.E. point of Hunting Island, is a mile. It diminishes to half a mile between the reef off the S.W. point of St. Geneviews and the east end of Hunting Island, which is the marrowset part of the channel. Within this narrowest part, the ground becomes good for anchoring, as it is everywhere between St. Geneviews and Betohewun Harbours. Indeed so little see comes in, that the whole space may be considered as a harbour espable of holding a great number of vessels of the largest class. Wood and water may be obtained, the latter from small streams, either on the main or on the islands.

There is an inner harbour at Betchewan, to the westward of the low islet which has been mentioned, but from thence there is no channel, excepting for boats, to pass out to the westward between Hunting Island and the main

The tides between St. Genevievs and Hunting Islands, and the mainland, are much influenced by the winds; but their rates seldom mount to a knot at any time, and

are usually much less, excepting through the shallow and narrow channel at the west end of Betchewun Harbour, where there is at times a complete rapid.

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CHARLES ISLAND, the next westward of Hunting Island, is 8 miles long, parallel to the coast, and 11 wide. It is about 200 feet high, boild, and free from shoals; but at the distance of three-quarters of a mile south from its east point, there is a patch of rocky ground on which no less than 5 fathoms has been found, but which had better be avoided by large vessels.

"The east point of Charles island bears N.W. by W., nearly 21 miles, from the west point of Gun Island. The former of these points is quite bold, and so is the latter to point of Gun Island. The former of these points is quite bold, and so is the latter to the N.W.; but to the S.W. it has a reef extending 290 fathoms. Between them is the entrance to Fuffin Bay, which is open to southerly winds. Within the east point of Charles Island and half-way towards a sheat core in this island there is good anchor-age in 7 fathoms, mud bottom, at the distance of 2 cables from the island; but the S.E. winds send in a considerable swell. In the N.E. corner of this bay is the narrow entrance (between sheals off Ragg Point and Hunting Island) of Ragg Bay, which has tolerable anchorage in its N.W. part, but has very deep water on the side towards Hunting Island, and is separated from the western part of Metchewun Harbonr by the sheal and narrow channel for boats between the island and the main, before mentioned. mentioned.

Charles Harbour, between the island and the main, though very narrow, is perfectly secure, and deep enough for vessels of any size, but its entirances are only 80 fathoms Within, it expands to a quarter of a mile wide by force-quarters of a mile in wide. length. Both entrances are 7 fathoms deep, but you must pass over 4 fathoms if you enter from the eastward through Puffin Bay. The depth within the harbour is from 4 to 61 fathoms, with mud bottom.

Strong winds occasionally cause the tides to/run at//the rate of 2 knots in the entrances of the harbour, but in general there is only a weak stream with either tide. To enter this harbour from Poffin Bay, bridg the N.E. point of Charles Island,

which is high and cliffy, to bear N.W.; then speer for it, and give it a berth of 100

to 180 fathoms, as you haul round it to the westward into the harbour. To enter from Trilobite Bay, give the N.W. point of Charles Island a berth of 60 to 140 fathoms, as you haul round it to S.E. by E. into the harbour. All the way from the eastern narrow entrance into Charles Harbour there is a broad zone of shoal water, which curves round parallel to the mainland till it joins Whale Island, and nearly fills up all the N.W. part of Trilobite Bay.

WHALE ISLAND, one quarter of a mile from the east side of Ammonite Point, and with abcal water between them, is distant 800 fathoms to the westward of Charles Island. Both islands are bold and cliffy, and Tyilobite Bay is between them, with excellent anchorage, well sheltered from all but southerly winds. The only danger to be avoided when working into Trilobite Bay is a reef off Ammonite Point, which includes a small islet, and extends half a mile off shore. The mark to clear this reef, when running along the coast is to keep Gun Island open to the southward of Charles Island, and when hauling in from the westward, into Trilobite Bay, keep the north point of Charles Island well open to the southward of Whale Island.

Clear Water Point, about 2 miles westward of Ammonits Point, and 24 miles westward of Whale Island, is low, with shoal water extending about a quarter of a mile from it to the southward.

The coast forms a large bay between Points Clear Water and Equimaux, along which there are high and conspicuous diffe of sand and clay, that distinguish this part of the coast to a vessel at sea. The shoal wage, extends a considerable distance from the shore all round this bay, and opposite Sea Cow Island the 3-fathom mark is a mile out from the sandy beach.

Due west, and 11 miles from Clear Water Point, lies a rocky 8-fathom shoal; and there are three others, with 2 fathoms, lying to the northward of the first, and in a line from the point, towards Walrus Island : the outer or westernmost of them being rather more than 2 miles from the point.

The mark for the outermost of these sheals is the south side of the high land of Niapisca Island in one with the south point of Gull Island, bearing N.W. by W. + W. or the north point of Fright Island, on with the south side of Esquimenz Island, and open to the southward of Green Island, bearing N.W. by W. The leading mark for later and the

CAPE WHITTLE TO THE MINGAN ISLANDS.

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passing outside these shoals, at the distance of half a mile, is the south points of Gull and Fright Islands in one, bearing N.W. by W.

WALRUS ISLAND lies 4 miles to the W.N.W. from Clear Water Point, and Sea Cow Island is close to the N.E. of it. The two islands together cover the space of 1} miles, in a N.E. direction, and are steep and precipitous, excepting to the southward, in which direction the reef off Sea Cow Island extends three quarters of a mile. and that off Walrus Island, 200 fathoms.

There is a clear chaunel to the weetward of these islands, and also between them and the Clear Water Shoals. This latter channel is 12 miles wide, and, although not the best, may be used in proceeding to Esquimaux Harbour from the eastward, by running upon the leading mark, which has been given for clearing the shoals to the westward of Clear Water Point, until the east sides of Esquimeux and Walrus Islands come in one. Then steer for the N.E. side of Sea Cow Island, and haul round it, at the distance of not less than 2 cables, to the north-westward for the east entrance of the harbour.

GREEN ISLAND, small, low, covered with grass, with reefs stretching north and south, 270 fathoms, but bold to the east and west, lies five-sixths of a mile W.N.W.

south, 370 fathoms, but bold to the cast and west, lies flye-sixths of a mile W.N.W.
from Walrus Island; and a third of a mile E.S.E. from Ecquimeux Island.
GULI ISLAND lies a mile W. B. from Green Island, which it resembles, excepting that it is rather smaller. It is distant half a mile from the S.E. point of Equimaux Island, but there is no passage for shipe between them. The south point of GUII island is bold, and may safely be passed at the distance of 2 cables.
ESQUIMAUX ISLAND, 22 miles long, and 12 miles wide, is 200 or 350 feet high towards its north side, sloping to the southward. From its 300 or 350 feet high towards its north side, sloping to the southward. From its S.W. point a sheal extends towards Fright Island, which also has a sheal stretching towards Esquimaux.
Harbour, is 380 fathoms wide, with extremely deep water, but as there are no leading marks for it, and the reefs on either side are extremely dangerous, it cannot be recommended.

FRIGHT ISLAND is nearly a mile from the west point of Esquimany/Island, and about half a mile long, in a N.E. direction ; it is bold on the south and S.W., on which sides vessels may pass at a cable's length, but reefs extend off it to the east, N.E., and N.W., to the distance of 3 cables.

QUIN ISLAND lies within, or N.E. by N. from Fright Island, from which it is distant a short half mile: it is nearly 14 miles long, in a N.N.E. direction, and its shores are bold, with the exception of a broad reef running out half a mile to the W.N.W. from its north point.

There is a deep channel of two cables' width, between Quin Island and the reefs off Fright Island, named the Fright Channel. /This channel may be used with as westerly wind for proceeding to Esquimaux Harbour, by hanking up to the east of Niapisca till the south end of Quin Island comes in one with the south side of the cove in Esquimaux islands, bearing E.S.E., then steering so as to pass close round the south point of Quin Island, which is quite bold, and thence E. by N., 9 miles, to the entrance of the harbour.

But the best channel from the westward towards Esquimaux Harbour is Quin Channel; it lies between Quin Island and the main, which, at Point aux Morts, is distant two-thirds of a mile to the N.N.E. from the north point of the island. The shoal water extends only a cable's length to the northward from the latter, but off Point aux Morts, and also off the small isless which lie rather/more than a third of a mile to the W.N.W. from it, the reefs extend 200 fathoms to the southward, and the shoal water is continuous to the eastward, across the mouth of the wide bay, which is to the northward of the harbour, and between Point aux Morts and Esquimaux Point. The depth of water in Quin Channel is from \$ to 71 fathoms, with rocky, gravelly, or sandy bottom:

EQUIMAUX HARBOUR lies between the north and N.E. points of the island of the same name, and between that island and the mainland. The island is 400 fathoms from Esquimaux Point, which bounds the N.E/part of the harbour. | Esquimaux Point, having the entrance of a small river on its weet side, consists of sand, and is quite bold to the S.W., although shoals extend from it across the bays on either side, as has been mentioned. The north and N.E. points of Esquimaux Island are also

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hold, and may be passed at the distance of 70 fathams by the largest ships. The depth within the harbour is from 5 to 15 fathoms, over a sandy bottom. The space in which, bearing of the points of the island from each other, and the average breadth of the your 4 cables' length. There is therefore room for a great number of vessels, which, if they anohor well over towards the island (that is, within the line joining its north and N.E. points, and in not more than 11 failtone water), will be absittered from all winds. Supplies of good water may be prosured from the river at Point Esquimaux, or from small streams on the faland, and wood is plentiful.

Brief directions have been already given for Sea Cow, Fright, and Quin Channels. leading to this excellent harbour. For the best channels from the eastward and westward, observe the following directions :-

. The best channel with easterly winds is the Walrus Channel, lying between Walrus and Green Islands. This channel is three-quarters of a mile wide, with 8 fathoms least water, and it is only necessary to give either island a berth of 200 fathoms to be older of ali dangers. Being 2 or 3 miles outside of these islands; bring the N.E. point of Equimant Island to appear about half-way between the two islands above mentioned as forming the channel, and it will bear about north. Steer for it, and giving it a berth of a cable's length, haul round it to the north-westward into the harbour, and anohor in the depth and position which has been recommended. The best channel with westerly winds is to the westward of Fright and Quin Islands,

between them and Niapiece Island, and then between Quin Island and the main. The extent and position of the reefs off Fright and Quin Islands have been already given. Niapison Island, however, has reefs of flat himestone extending half a mile to the southward; and also a quarter of a mile to the eastward, from its S.E. and east points, between which a very remarkable group of flower-pot rocks will be seen standing on the limestone just above high-water mark. From its east point, which is the south point of a bay in the island, another reef runs out half a mile to the N.E. by E., but there is ample space between these reefs and Fright Island, the channel being over a

channel, steering N.N.E. J. E., and when you open Moutange Island (next westward of Moniso) to the northward of Niapisos, you will be clear of the N.E. by E. reef above mentioned. Haul up new, if necessary, to clear the reef, which projects half a mile W.N.W. from the north point of Quin Island, until you not only open the north point of Esquimaux Island to the northward of Quin Island, but also the north point of Sea Opy Island to the northward of Esquimaux Island. Run in between Quin Island and the main, with the last-named marks just open, bearing about 8. 54° E., and they will lead you past the north point of Quin Island, at the distance of about 200 fathoms.

Take notice that the mark for the shoals off Point aux Morts, and the westward of it, is the north and N.E. points of Bequimaux Island in . S.E. & E.; if you open them before you are as far to the eastward as will be ashore. Having passed Quin Island, continue your course towing the north

point of Esquimanx Island; and haul round it to the south-eastward into the Harbour. The tides usually run at the rate of about one knot through Esquimaux Harbour, the flood similar round Clear Water Point from the about through Esquimaux Harbour, The time usually run as the rate of social one and, through Esquimaux riarbour, the flood tends round Clear Water Point from the estiward, and passing to the west-ward betty in this Island and the main. The ebb flows in the contrary direction. The flood all the social is the set of the ebb sets out through the social of the set of the ebb sets out through the social of the set of the ebb sets out and duration to the set of the set of the set of the Esquimaux is the set of the set of the set of the set of the NAPISON is the set of the set of the set of the set of the three principal bills, not exceeding 200 feet in height. OUARRY ISLAND, narry 24 miles long, and shout the same height as Niapisca.

QUARRY ISLAND, nearly 22 miles long, and about the same height as Niapisca,

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is separated from the latter by a channel 370 fathoms wide, with a small islet in it, but no safe passage for shipping, because of shoals in the bay to the southward, and of a reef which strotches beyond the small islet. Other reefs also run out one-third of a mile from the west side of Nispisos, and from the south side of Quarry Island.

Quarry Cove is on the north side, and two-thirds of a mile to the north-westward of the seat end of the island. It is 330 fathoms wide, and about 400 deep, with 33 fathoms of water in the entrance, shoaling gradually to 4 fathoms, with mud bottom close to its head. The islands and shoals along the mainland are, distant only 3 miles to the northward of this cove, which thus becomes a completely land-locked, though very small harbours. No other directions are requisits, than keeping the west side nearist on board in entering, and to anchor near the centre in 9 or 10 fathoms: Good water may be obtained from a small stream in the B.W. corner of the cove.

Good what may be obtained from a small surem in the b.v. of an and Large Third. Met our channel, named Quarry Channel, between Quarry Island and Large Mand, which is the next westward. This channel is 400 fathoms wide from island betaland, in the nerrowest part, where the shoal water off Large Island diminiabes the springle breadth to 380 fathoms. The only directions necessary are to bring the obaring to bear N.N.E.; then run in keeping in its centre until two-thirds of a mile within the S.W. point of Quarry Island, after which you may keep that island close on board, as the remainder of the ohannel, 14 miles, is quite bold on that side, while the shoat water extends 180 fathoms from Large Island. The flood runs slowly in through this channel, and the ebb as slowly out.

LARGE ISLAND is of an oval shape, the longest diameter from north to south being 4 miles; it is rather more than 11 miles in circumference, thickly-wooded, and in its highest part estimated at 200 fest above the sea. Beefs of flat limestone transd off its south and S.W. points to the distance of nearly three-quarters of a mile, and the mark for the south point of these paefs, in 2 fathoms, is the south points of Niaplicas and Fright Islands in one. On its west side, a mile to the northward of its S.W. point, there are many flower-pot and arched rocks, standing on the flat limestone above the present high-water mark.

The Middle Reef lies just within the line joining the south points of Large and Mingan Islands, and 2 miles westward of the former. A part of this reef is always above water, but it is not 30 fathoms in diameter, though the sheal 'around it is half a mile long in a N.E. by N. direction, and oue-third of a mile wide. The mark for the east side of this reef, in 4 fathoms, is the east sides of the two Birch Islands in one.

The navigable passage between this reef and Large Island named the Large Channel, is 15 miles wide, and has a depth of 64 fathoms. This is the channel that should be used by a vessel proceeding to Mingan Harbour with an easterly wind, and in doing so the only thing necessary to be observed is, that the reefs extend to the westward off the shore of Large Island, from 3 is 2 cables' length, as far in as the Flowerpôt Columns, after which the island becomes bold. There is little or no warning by the lead on the Large Island side, but the Middle Reef may be approached to 18 fathoms, which, on the east side, is more than half a mile from it. Farther in, the Birch Islands form the west side of this channel, at the distance of nearly 2 miles from Large Island; the east side of the Outer Birch is quite bold and the sheal water extends only 160 fathoms off the east end of the Inner Birch Island.

The OUTER AND INNER BIBOH ISLANDS he to the northward of the Middle Reef, and in a line from it towards the west side of Harbour Island. The channel between the Outer Birch Island and the Middle Reef is almost a mile wide and 30 fathoms deep, and the sheal water extends only 160 fathoms from the south point of the former. But there is a very dangarous reef off the west side of the Outer Birch Island; extending 650 fathoms wide, but the ground is all foul, and not more than 8 fathoms could be carried through by a stranger. The Outer Birch Island is about a mile in diameter, and about 500 feet in height, and it has a remarkable flower-pot rook on its S.W. point. The Inner Birch Island is rather larger; its N.W. point is long and low, extending half a mile to the westward from the body of the island, with a curve to the S.W.; off this point there is a refer running out half a mile to the westward, and having 13 fathoms within a cable's length of its edge.

Half a mile to the S.W. of the same point, there is a small low islet, close to the south point of which stands a very remarkable reck, named the Hulk Rock, from its. resemblance to the hulk of a wrecked vessel. The reef of flat limestone, dry at low

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water, which connects this islet and rock to the low west point of the Inner Birch Island, extends 300 fathoms of the rock to the S.W., and also 200 fathoms to the westward. The flood tide sets out to the S.W. between the Birch Islands, and also between them and the Middle Rack.

Between the Birch Islands and Mingan Island is Birch Channel, which is the best by which to proceed to Mingan Harbour with westerly winds. It is 3 miles wide, and all deep water.

all deep water. MINGAN ISLAND, 34 miles to the weatward of the Inner Birch Island, is nearly 2 miles long, in a N.N.E. direction; and, including two small islets close to its west side, nearly a mile broad. It is about 100 feet in height, and bare of trees. The shoal water does not extend above 300 fathoms off its south point; but to the S.W. and west the reefs, including the islets, run out nearly 600 fathoms. The island is bold on its north and east sides.

To the S.W. 1 S., 34 miles from the south point of Mingan Island, and with the south point of the Outer Birch on with the north point of Large Island, lies the Mingan Patob, which consists of rocky ground of 9 fathoms least water, yet there is a very heavy swell on it at times. There are 22 fathoms of water between it and the island.

The PERROQUETS, the westernmost of the Mingan Islands, are four small islets, low, and bare of trees. The north-westernmost is higher than the others, surrounded with eliffs, and has a superstratum of peat on its flat summit, in which great numbers of puffins burrow and rear their young. The two easternmost of these islets are distant 3 miles N.W. by W. from the centre of Mingan Island, and have a respired flat limestone extending off them three quarters of a mile to the S.S.W. There is also a shoal to the northward of them one-third of a mile, and a narrow channel between them and the other two, but of no use the vessels. The north-westernmost, islet has shoal water off it to the distance of a quarter of a mile, both to the eastward and westward, but a vessel may pass to the northward of it, at the distance of 200 fathoms, in 14 or 15 fathoms of water. The Perroquet Channel, between these islets and Mingan Island, is 11 miles wide, and has a depth in mid-channel, varying from 80 to 40 fathoms. Both the flood and ebb set out through the channel, the former to the S.W., and the latter to the southward.

All the islands above described, from Niapisca Island to the Perroquets, inclusive, are bold, and free from danger on their north sides, so that Mingan Channel, which lies between them and the main, is safe throughout. Monias Island, lying on the mainland side of this channel, is less than half a mile in dismeter, and stands nearly opposite Niapisca Island, from which it is distant about 24 miles. MOUTANGE ISLAND, 14 miles westward of Moniac, is about 14 miles in

diameter, and situated off a bay full of little islets, and in which there are severel small rivers. Moutange is directly opposite Quarry Island, at the distance of 94 miles. These islands, Moniac and Moutange, are distant three quarters of a mile from the nearest point of the main, but the shoals within and between them are nearly dry at low water. "The shoals do not project above 3 cables' length off to the southward of Moniac and Moutange Islands, but there is rocky ground, with irregular soundings between 4 and 10 fathoms, out to the distance of a mile to the southward of them both; so that a vessel beating in the Mingan Channel had better not stand over to the northward beyond 14 miles from the northern shoree of the outer islands, or into less than 10 fathoms.

Sand Lark Reef, 31 miles N.W. by W. of Moutange Island, 24 miles E.S.E. from Mingan Harbour Island, and rather more than a mile from the mainland, is small and low, but always above water. The shoal water does not extend off it above a cable's length, and there is a clear channel, with deep water on all sides of it; but there is a rooky patch, with 5 fathoms of water, 14 miles from it, on a line towards the south side of Moutange Island. This shoal water has not been closely examined, and should therefore be avoided.

Between the Inner Birch Island and Harbour Island, the Mingan Channel is 14 miles wide, with rocky and irregular soundings, between 7 and 20 fathoms. The deepest water is over towards Birch Island, where the bottom is generally of sand, gravel, and shells.

Between the Perroquets and Long Point, and also between Mingan Island and the latter, the Mingan Channel is 22 miles wide, and free from all danger, szepting a sandy shoal extending off the shore, immediately to the westward of Long Point, to with by t be c L as fi M and of li the a m dóe T gua ma T WOU dry Rív abo the beir abo ove A in 🔹 har 1 from the OWI the CAT ent are pas and fat of t isle COD pa: thi a b dir ha wei aid

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nd and the zeepting a r Point, to within a mile of the Perroquets. There is often a great ripple off this shoal, caused by the flood tide being turned off by Long Point toward the S.W. This channel may be conveniently used, in going to Mingan Harbour with a northerly wind.

Long Point consists of sand, and there is a fine beach from thence to the eastward, as far as Mingan Harbour inclusive.

MINOAN HARBOUR is the narrow but well-sheltered space between Harbour Island and the mainland; the latter is low, and has a fine sandy beach, while the island is of limestone, about 100 feet in height; thickly-wooded, precipitous and bold towards the harbour, but shelving and shoal to the southward to the distance of a quarter of a mile from the shore. The length of the island is 2 miles, and its greatest breadth does not amount to half a mile.

The reefs off the east and west ends of the island, and which are the privicipal things to guard against in entering the harbour, extend 240 fathoms out from the high-water mark.

The mainland recedes from the island in the eastern part of the harbour, which would, in consequence, be exposed to easterly winds, if it were not for a sandy sheel, dry at low water, which extends 700 fathoms out from the entrance of the Mingan River. This river is only capable of admitting boats at high water, and its mouth is opposite the east end of the island. The eastern entrance of the harbour, between the above sandy sheal and the island is 200 fathoms wide, the western entrance between the mainland and the island is 170 fathoms wide, the whole breadth in both entrances being in deep water. The space within, in which vessels may anchor in safety, is about a mile long by 270 fathoms wide, with plenty of water for the largest ships, over a bottom of fine sand.

Although these entrances are so narrow, there is little difficulty in taking a vessel in of the size of a cloop of war, and large frigates have occasionally visited the harbour.

To enter Mingan Harbour, observe the following directions: In approaching it from the eastward, bring the north or inner side of Harbour Island to bear N.W.; and the houses of the Hudson Bay Company's post ought then to appear open fully their own breadth to the northward of the island. Steer for those houses so open, leaving the east end of the island 150 fathoms to the southward, or on your left, and taking care to keep the south side of the sandy point of the main, which forms the western entrance of the harbour, shut in behind the north side of the island; for when they are in one, you will be on shore on the sandy shoal off Mingan Biver. After you have passed the east end of the island, run along its north side at the distance of a cable, and choose your berth auywhere near the centre of the harbour, in from 9 to 18 fathoms, sand bottom.

When running for the harbour from the westward, run in towards the sandy beach of the mainlaid at the distance of three-quarters of a mile to the westward of the island, until the sandy point of the mainland, which forms the west end of the harbour, comeg in one with the face of the clay cliffs, to the eastward of the Hudson Bay Company's houses, bearing E. by S., or until you are in 11 fathoms water. Run upon this mark, or course, along the beach, and give the above sandy point of the mainland a berth of half a cable, as you pass into the harbour, and choose your berth as before directed

Mingan Harbour is perfectly secure in all winds, and, like Esquimaux Harbour, it has this great advantage, that vessels can enter or leave it either with easterly or westerly winds.

From Long Point, a broad beach of fine sand reaches to the River St. John; outside of which shoal water-extends to the distance of three-quarters of a mile.

THE WEST AND SOUTH COASTS OF THE GULF.

CAPE GASPE TO POINT ESCUMINAC.

CAPE CASPE is a remarkable headland, of limestone, having on its N.E. side a range of cliffs, which rise from the sea to the height of 693 feet. Off the south-east

extremity of the cape there was till recently a very remarkable white rock, named the Flower-pot Rock, Ship's Head, or Old Woman. The base of this rock had been worn so much by the action of the sea, as at last to came its fall into deep water.

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Off Cape Gaspé there are several rocky patches, frequented by the fishermen. They all lie in the same direction from Flower pot Rock, S.B.E. J.E. The first is a small patch with 8 fathoms least water, the second has 16 fathoms, and the third 10 fathoms. Their distances from the rock are seven eighths, 14, and 18 miles respectively. There is deep water and irregular soundings between them, and the last-mentioned is on the bank of soundings lying off this coast.

At the distance of 71 miles, S.S.W. 1 W. from Cape Gaspé, is situated Point Peter, forming the N.E. point of Mal Bay, and the south point of Gaspé Bay. It is of low sand-stone, and thickly covered with the white houses of the fishermen. Flat Island lies about 400 fathoms of Point Peter, and is small, low, and of sand-

Flat Island lies about 400 fathoms of Point Peter, and is small, low, and of sandstone. Between the island and the point there is a clear channel, but no good anchorage: for although vessels occasionally anchor to the northward of the island, yet the ground is so foul, that there is great danger of losing an anchor from its hooking the rocks. From Flat Island, to Cape Gaspé, across the mouth of Gaspé Bay, the course is N.N.E. 71 miles.

GASPÉ BAY possesses advantages which may hereafter render it one of the most important places, in a maritime point of view, in these seas. It contains an excellent outer readstead, off Douglas Town; a harbour at its head, espable of holding a numerous fleet in perfect safety; and a basin where the largest ships might be hove down and refitted. The course up the bay, from Flat Island to the end of Sandybeach Point, which forms the harbour, is N. by W. 4 W. rather more than 16 miles. From Foint Peter the land rises in undulations to the chain of mountains about 6 miles inland from the courth-western shore of the bay. The south-western shore of Gaspé Bay, from Point Peter to Douglas Town, a distance of 12 miles, presents a succession of precipitous hadlands. Shoal water extends nearly a third of a mile rapidly te allow of much wearing by the lead.

In the N.E. side of the bay there is an anchorage, with good holding ground, but in not less than 17 fathoms, except within a quarter of a mile of the shore; abreast of St. George Cove, Grand Grère, and Little Gaspé. This side is bold, and free from danger in every part with the exception of the Seal Rocks, which are the only detached dangers in the bay.

The Seal Rocks are 64 miles within Cape Gaspé, one mile S.E. by S. from Cape Brulé, and half a mile off shore. The length of this reef, from 3 fathoms to \8 fathoms, and in a direction parallel to the shore, is half a mile; and its breadth a quarter of a mile. The least water is 4 feet, and there are 3 to 34 fathoms between it and the shore. When on the outar edge of the Seal Rocks, Cape Brulé is in one with the next cliffy point up the bay, bearing N. 35° W. by compass, and this only mark is sufficient for the safety of vessels beating, for the rocks are out of the way with fair winds.

Douglas Town is a village of fishermen and farmere, standing on the rising ground at the south side of the entrance of the River St. John. The roadstaad of the town is extensive, and vessels may anchor in any part of it, and in any depth from 11 to 6 fathoms, ever sand and day bottom; although the best berth is in 7 fathoms, with the entrance of the River St. John bearing N.W., by W. 14 miles. The course and distance from Cape Gaspé to this anchorage is N.W., by W. 14 miles. The course and distance from Cape Gaspé to this anchorage is N.W., by W. 74 miles. There is, however, no shelter from winds between S.E. by E. and S.S.E., which blows directly into the bay, and roll in a heavy swell. The riding is, nevertheless, much less heavy on such occasions than might be expected; and, as the ground is excellent for holding, a vessel may safely anchor here during the summer months. Water may be obtained by ascending the River St. John to the islands, a distance of 2 miles. In which is between two points of sand ; and there are 12 feet of water in the narrow channel for some distance within. At the islands the river becomes shallow and rapid. Two miles northward of Douglas is Cape Haldimand, a bluff point of cliff, and the south-eastern terrismition of the range of hills which separates the harbour, Dealer, and, S.W. arm, from the valley of the river St. John.

GASPE HARBOUR .- From the N.E. side of Cape Haldimand, Sandy-beach

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Sandy-beach

Point runs out to the northward, and forms the Harbour of Gaspé. It is a very low and narrow point of sand, convex to seaward, on which side the water deepene gradually from high-water mark to the depth of 3 fathoms, a distance of nearly half a mile: on the inside it is as bold as a wall. Thus this spit, apparently so fragile, becomes a natural dam or. breakwater, upon which the heavy ewell, which often rolls into the bay, can produce no effect, expending its strength in the shoal water before reaching the beach. The water deepens immediately outside of 3 fathoms, all along the outside of Sandy-beach Point, and also off its north extremity; so that it is both dangerous and difficult to beat in or out of the harbour at night; the lead giving little or no warning.

To the northward of Sandy-beach Point, at the distance of nearly a mile, is a low sandy peninsula, covered with spruce-trees, and with several whale-sheds near its west point. Between the sheal water in the bay to the south-statward of the peninsula, and that which extends from the extremity of Sandy-beach Point, is the narrowest part of the entrance to the harbour, which is 420 fathoms wide and upwards of 11 fathoms deep in mid-channel.

To run into the Harbour of Gaspé, attend to the following directions and remarks: —On the N.E. side of the N.W. arm there is a wooded point with low elay eliff, 24 miles above the peninsula. This point appears as if it were file extreme on that side, when seen over the end of the peninsula from a vessel approaching the entrance of the harbour, and is named Point Fanard. Now this point (seen over the peninsula) in one with the inner or north side of the whale-sheds before-mentioned, is the mark for the northern extreme of the sheal off Sandy-beach Point. The extremity of the spruce-trees is as far within the whale-sheds as these last are from the sandy extremity of the peninsula. On the inner side of Sandy-beach Point, and near to its junction with the mainland, stands a wooden windmill. Keep Point Panard in one with that extremity of the spruce-trees on the peninsula, bearing N. 47° W., until the windmill, just mentioned, comes in one with the west or inner side of the end of Sandy-beach Point, bearing S. $\frac{1}{2}$ W., when you may haul into the anchorage under the point, or steer for the basin. When beating in, tack by the lead from the N.E. side of the bay, and in the board towards Sandy-beach Point, put the helm down the instant the marks for leading in, just given, come in one.

At night, when neither Sandy-beach Point nor the peninsula can be seen, it becomes rather a difficult affair to take a vessel into the harbour. The only guide then is the lead : soundings should be first struck on the N.E. side of the bay, about two miles outside of the entrance of the harbour, and the edge of the shoal water on that side should be followed, in from 5 to 7 fathoms, until you judge, by the distance run, and the change which takes place in the direction of the edge of the bank which you are running upon, that you are approaching the peninsula and have passed Sandy-beach Point, and can in consequence venture to haul to the southward into the anohorage. To form this judgment accurately is the difficult part of the process, and as a failure in this would probably cause the loss of the vessel, if the usual heavy swell should be rolling into the bay with S.E. winds, Captain Bayfield recommends a vessel rather to trust to her anchors off Douglas Town than to make the attempt. In the case of a vessel losing her anchors, the directions which have been given may prove of use. Within Sandy-beach Point, the shelter is complete fromall winds i the bottom is mud, and the depth nowhere exceeds 113 fathoms.

Capt. Bayfield says:—" There are regular but weak streams of flood and ebb in the entrances of the harbour and basin. In the bay the streams of the tides are irregular, and are usually almost imperceptible, excepting near the shores, and even there they are so weak as to be of little or no consequence to a vessel.

The current down the St. Lawrence runs strongly past Flower-pot Rock over towards Flat Island, especially in the ebb tide, which often increases its rate to 2 knots, and this should be remembered by vessels making the bay with a northerly wind. This current, when it meets the swell which so often prevails from the south and S.E., causes a high, short, and breaking sea, all along the coast from above Cape Rosier to Cape Gaspé, and extending across the entrance of Gaspé Bay. When the wind is light, a vessel becomes quite unmanageable in this sea, and it is extremely dangerous to be eaught in it, close to the shore, by a light breese on the land.

In fine summer weather there is often a sea-breeze blowing right up the bay from

about 9.4.M. until sunset. At such times there is generally a light land-breeze at night down the arms, which often extends for several miles out into the bay. In the outer part of the bay, however, it will generally be found to be calm, even at times when a occasions is generally from the S.W."

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MAL BAY.—Point Peter, as before mentioned, is the N.E. point of Mal Bay. This bay is between 6 and 6 miles wide, by 4 miles deep, and entirely open to the S.E. A fine broad sandy beach extends right across the head of the bay and incloses a shallow lagoon, into which a considerable river and several small streams discharge their watere; this lagoon has an outlet, named the Tickle, in the N.W. corner of the bay, admitting boats at high water and in fine weather. There is anchorage all round the render it difficult for a vessel to beat out, it cannot be recommended. There is an close to the shore, and in 3 fathoms water.

From Point Peter to Cape Despair the distance is 13¹/₂ miles, and between lies the Island of Bonaventure, having bold and perpendicular cliffs on all sides except the west, from which side shoal water extends to the distance of a quarter of a mile. There is achorage in 15 fathoms between the island and White Head; but the riding is insecure and heavy in consequence of the swell, which, in bad weather, rolls round the island. Between Bonaventure Island and the Percé Rock to the northwestward, the channel is about 1¹/₂ miles wide and free from danger.

Within Bonaventure Island, and close to the main, to which it is joined by a reef, nearly dry at low water, is the Percé Rock, so named from having two large holes in it, one so large as to admit the passage of boats, at high water. It is so precipitous as to be nearly inaccessible, and 288 feet high, and at a distance appears like a citadel. A reef runs out from the shore to the southward of the rock, about half a mile, on either side of which small vessels occasionally anchor.

The town of Percé, behind the perforated rock, is inhabited principally by the fishermen, who have an excellent beach to dry their fish on. At the back of the town is the Mont Percé or Table Roulante, 1230 feet above the sea, from which it rises abruptly on the north side, where the precipices of red sandstone and limestone, 666 feet high, off which are 8 to 12 fathome.

CHARTEUR BAT.—The N.E. point of the Bay of Chalsur, named Cape Despair, is of a moderate height, and has at rather more than 14 miles S.S.E. from it, the Leander Shoal, which is rocky, but with a clear passage between it and the cape. It is about a it is difficult to find. The line of the White Head, in one with the inner or N.W. end Percé Rock, passes just outside of the shoal, in 7 fathoms; therefore the whole of all. From a half to the whole of the Percé Rock, shut in behind the White Head, will lead between the Leander Shoal and Cape Despair.

Chalcur Bay is 25 miles wide at the entrance, between Cape Despair and the north part of Miscou Island, with a depth in mid-channel of about 40 fathoms. It is in approach to the shoals. The tides are regular, and have but little relocity, excepting on them. Inside the bay are so irregular that but small dependence can be placed with; the climate is also much milder.

The North Shors.—From Cape Despair the coast trends to the westward 7 miles to Grand River, with its shallow bar, outside of which to the westward there is a sheal running half a mile from the goat. Beyond this, at the distance of 4 miles, is Little of which are small fishing places. At 34 miles farther is another small fishing place named Newport, off which small vessels eccasionally anohor under shelter of a sheal. To the south-west of this place, distant 6 miles, is Point Maguereau, hold to and dark point are 40 to 50 fathoms.

A few miles to the westward of Point Maguereau is an extensive bay named Port Daniel, where supplies both of wood and water can be obtained. At the head of the eze at nightn the outer nes when a ses on such

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CAPE GASPE TO POINT ESCUMINAC.

bay is the outlet of a small river, near which are the houses of the fishermen, ; The west point of the bay has a detached rock off it. Port Daniel /s exposed to the S.E., and winds from that quarter roll in a heavy swell. This port may be easily recognized by a high hill, one mile to the westward of the harbour, the summit of which is 400 feet above the sea; it is the highest land on this part of the coast, and often appears like an island.

From Port Daniel the coast runs 9 miles to Nouvelle River, a place of no moment, and 51 miles from this is Paspebiac, off which is an excellent roadstead. The point is low, being composed of sand and shingle, and incloses a small lagoon. The town is considerable, although straggling along the coast; and there is an English and Roman Catholio Church. On the west side of the point are a number of fishing-huts, and the extensive white buildings belonging to the fiehing-establishment of Messrs. Robins and Co., of Jersey; on this side of the point is also the roadstead, in which vessels lie sheltered from S.E., round north, to West, although open to southerly winds. Jersey vessels lie moored here all the season, on excellent holding-ground. A sandy spit runs out sonth-westward, nearly half a mile from the point, and affords some shelter to the roadstead. The best berth to anohor is in 6 fathoms, clay, with the sandy point S.E., and Robins' flagstaff East.

In rounding Paspebiae Point from the eastward, keep Daniel Hill open to the southward of Nouvelle Point until the Roman Catholic Church opens to the westward of the south end of the sandy spit N. by E. ; keep the lead going, and steer towards Carlisle Point, until Robins' flagstaff (at his northernmost large, white store) and the above-mentioned church come in one N.E. N.; when you may haul in for the anchorage by your lead, taking care to give the spit a berth in going in.

Carlisle Town is 84 miles to the westward of Paspebias, and is rendered conspicuous by the jail and court-house, which can be seen from the anchorage. The point is covered with wood, and assists in sheltering the roadstead of Paspebiac from the westward.

Five miles to the westward of Carlisle is Bonaventure Point, formed by a low red saudstone cliff, off which a socky shoal extends to the westward fully a mile, and con-tinues along the coast to Red Point, a distance of about 8 miles. Here vessels may anchor, sheltered from the eastward, riding in 6 or 7 fathoms, with the point bearing S.E. & S., the church N.E. & E., and the entrance of the river E. & N., 14 miles. From the extremity of the point the coast trends to the northward 2 or 3 miles to the river of the same name, which is too shallow to be of any use to navigation; and 10 miles farther is another small stream named the Caplin, off the entrance to which then is a reef.

From hence the coast runs to the northward 10 miles, and then trends to the southwestward a similar distance to Carleton, forming the bay of Cascapediac. At the head of this bay is a stream, available only for boats in consequence of the flats which extend out 2 miles from the entrance; to the eastward of this is the village of Richmond, having anchorage before it, in 8 fathoms, with the church bearing N.E. # E., and Black Point, the east point of the bay, S.E. ‡ S.; but you may anchor farther out in 5 or 6 fathoms, although not so well sheltered. When approaching Richmond from the eastward, in order to avoid the shoal that stretches off to the westward 12 miles from Indian Point, keep Red Point well open of Black Point S.E. 1 E., and approach no nearer than 4 or 5 fathome, until the church bears N.E. by E., when you may steer for it, and anchor as before.

On the western side of the bay are extensive settlements, at the back of which are some lofty hills, conspicuous at a great distance, the highest of which, Mount Carleton, is estimated to be 1830 feet high.

Tracadigash or Carleton Point, the west point of Cascapediac Bay, is low and incloses a shallow lagoon, which admits small craft at high water. On the north side of this lagoon is the village of Carleton, behind which are the Carleton Mountains. Off the point a spit runs half a mile, which can be cleared by keeping in 10 or 9 fathoms, or by bringing Mount Dalhousie just open of Point Maguacha, bearing about W.N.W. ‡ W. To the westward of this spit there is good anchorage in 5½ fathoms, mud, with the point bearing S. by E. ‡ E.; Carleton Church E. by S.; and the watering place N. by W. ‡ W.: here you will lie, little affected by the tides. From Carleton Point the coast trends round to the westward 7 miles to Maguacha Point Maguacha

Point, which is composed of red sandstone cliffs, and has a reef running off it about a

mile to the westward. Between, in the northern corner of the bay formed by the two headlands, is an extensive lagoon, nearly dry at low water, into which the New River falls. Outside this basin the water deepens to 25 fathoms at the distance of a mile, entrance to the River Ristigouche, which is a broad estuary running some miles into the country.

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DALHOUSIE HARBOUR is frequented principally by vessels loading with timber. Off the town is a high and rocky but well wooded island, 2 cables in length, named Dalhousie Island, which is connected to the shore by a shoal drying at low connected to the shore by a sandy spit. Between these islets a sandy strand joins the shore, and it is along the edge of this that the vessels anehor in 6 and 3 fathoms Off the island a think of the shore by a sandy spit.

Off the island, on the north side of the harbour, is the Middle Ground, having 6 feet least water on it. Its eastern side is very steep, and a buoy marks its northcanadian abore to the north-sestward, is about three quarters of a mile wide, with a depth of 12 to 16 fathoms; here the runs about 2 knots. The harbour of Dalboustie is very much sheltered from the northward by this sheal.

When making Dalhousie you may do so either from the eastward between the island and the Middle Ground, or by running round to the northward of that shoal, enter it from the north-westward. In this latter course there is much more room, but you have to cross a flat of 3 fathoms water; the other passage is 1¹/₂ coble's length wide,

To run for the harbour, and being 6 miles south from Carlisle Point, steer N.W. by W., 34 miles, which will bring you midway between the east point of Heron Island and Tracadigash Point; in this run you will shoalen your water from 36 to 10 and 12 fathoms. Off Heron Island a bank runs out some distance, which you may clear by bringing the highest summit of the Scaumenaed Mountains open north of Dalhousie Island; and you may also clear the spit running from Tracadigash Point by bringing this position (midway between Heron Island and Tracadigash Point) steer about W.N.W. fowards Dalhousie Mountain, and when near Maguacha Point steer about running from it, by bringing the bighest part of the Scaumenac Mountains open to 9 or 8 fathoms, when the Bonami Rocks will bear about S.W., distant half a mile. Haul now to the northward, keeping in the same depth of water, until Lalime Point, the western point of New Brunswick, somes just open north of Dalhousie Island and on, and enter the harbour, being oareful not to approach the island nearer than 60 or 100 fathoms; when in the barbour you may anchor in 5 or 6 fathoms.

To enter the harbour by the western and more roomy passage, instead of steering W. by N. for Point Lalime, steer to the N.E. until you get into 8 fathoms on the Dalhousie Chursh bears S. W. by S., when it will open to the westward until Then steer to the westward directly up the estuary, until the church bears S. by W., and crossing a 3-fathom flat, you will enter the harbour, where you may anchor as

•RIVER RISTIGOUCHE. — From Dalhousie the river runs up about 12 miles to Campbell town, and is navigable for large vessels to within 4 miles of that place, when the channel becomes both narrow and intricate. At its entrance, just opposite Dalhousie, is Fleurant Point, off which is a very convenient anohorage, in 6 or 7 fathoms, for vessels visiting the river for supplies of wood or water: it is easy of fathoms, for vessels facilities for getting under weigh, in all winds and at all times of tide. Half a mile westward of the point is a brook of excellent water, and a little half-way across the river.

Campbell-town is situated at the foot of a lofty hill named the Sugar Loaf, estimated to be 950 feet high. Here it is high water at 4h, with a rise at spring tides of 9 or 10 feet, and at nears of 7 feet water. When the tide is up vessels

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CAPE GASPÉ TO POINT ESCUMINAC.

drawing about 20 feet water can ascend the river as far as the town, off which they may lie affoat at low water. Small craft may ascend still farther up.

The South Shore.—From Dalhousie the coast runs to the eastward about 14 miles to Bonami Point, off which are some high steep rocks, with no passage between them and the shore. Hence to the small River Carlo the distance is 44 miles, with a shallow lagoon, about half-way between, named the Eel River; and three miles farther is Heron Island, which is 4 miles long and of moderate height. Between the island and the shore there is a channel of 8 to 5 fathoms at low water, in which is good anchorage, but it is narrow and contracted by the shoal water on either side; near the eastern part of the channel, and directly in the middle, is the Heron Rock, a danger of only 6 feet water, with 4 to 5 fathoms all round it. It is recommended always to take a pilot as the navigation is very intricate.

Three miles from Heron Island is the entrance of the River Nash, resorted to by vessels for timber, which moor outside in 4 fathoms, muddg bottom, with the east point of Heron Island bearing N. by W., 24 miles, and Black Point N.W. one mile. In this position they are much exposed to easterly winds, but the ground being good, they are enabled to ride in safety during the summer months. About 34 miles S.E. from Heron Island and 14 miles off shore, there is a rocky ledge upon which not less than 4 fathoms was found, yet there- may be less water. From hence to Belledune Point the distance is about 9 miles, when the ocast turns to the southward, a distance of 16 miles, to the entrance of Bathurst Harbour, at the head of Nipisighit Bay; in this last distance the only objects of particular remark are the church and village of Rochette situated about half-way. The whole of this coast is low and moderately clear, and may be approached by the lead, but a large vessel is recommended not to get into a less depth than 10 fathoms.

BATHURST HABBOUR is about 2 cables' length in width, between Carron and-Alston Points, which are of sand, with stores and other buildings upon them. There are two beacons on Carron Point, on the S.E. side, which, when kept in one, bearing S.W. $\frac{1}{2}$ S. lead in through the narrow obannel over the bar, in 7 feet at low water, and 14 at high water, spring-tides. From 3 fathoms outside the bar to the entrance of the river is 1 $\frac{1}{2}$ miles, very narrow the whole distance, and between sandy shoals, nearly dry at low water. Between the sandy points, or just outside in 3 or 4 fathoms at vessels generally moor to take in timber. It is high water at Bathirst Harbour at Sh. 15m.; spring-tides rise 7 feet, neaps 4.

The Town of Bathurst is well situated 24 miles within the entrance, and at the head of the basin. A depth of 14 feet at high water can be carried up to the wharves of the town, and vessels may lie in 14 feet at low water, in some parts of the channel; here the tide runs from 14 to 2 knots, and sets fairly in and out over the bar, which should never be crossed without a pilot; they are always on the look out for vessels. The bar bears from Paspebiac Point, on the Canadian shore, S.W. by W. 4 W., distant 8 leagues.

Some few vessels load inside the bar, but the usual place of anotherage is just outside in 6 or 7 fathoms, muddy bottom, where there is safe riding in the summer months, but exposed to N.E. gales, which are attended with a heavy sea.

From Bathurst Harbour the coast runs to the north-eastward to Point Mizzenstie, a distance of 29 miles, and is clear, with the exception of a S-fathom shoal, threequarters of a mile from the shore, about 9 miles from Bathurst; it may in general be approached to the depth of 10 fathoms, which is near enough in the night-time. Eastward of Mizzenetic Point the shoal water extends half a mile out.

CARAQUETTE HARBOUR.—After passing Mizzenette Point the coast line falls back and is hordered by several islands and dangerous shoals, within which there is an excellent harbour affording safe anchorage in from 4 to 21 fathoms.

excellent harbour affording safe anchorage in from 4 to 24 fathoms. Nearly 3 miles E.S.E. of Point Mixmenette is Caraquette Island, which is low and wooded, and 14 miles long in a direction nearly parallel to the cost. Sandy points extend from both ends of the island towards the maiusah, or to the southward, so as to form a bay, in which there is a perfectly land-locked anchorage for vessels not drawing more than 15 feet. There is no passage for shipping between the island and Point Mixments, but only a very narrow channel for boats on the side next the island. The island stands on an extensive bank of flat sandstone, partially covered with sand, and which, commencing at Point Mixmenette, extends to the castward parallel to the coast all the way to the entrance of Shippigan Sound, a distance of 8 or 9 miles. Caraquetic Shoal extends 43 miles to the eastward of the island, from which it drive out occasionally in very low tides to the distance of 2 miles, and is very shallow in every part. From its east end, Caraquette steeple hears W. S., and in one with the extreme of the trees on Caraquette Island; and Shippigan steeple, South, in one with Pokesuedie Point. This latter bearing clears the shoal to the eastward in 3 fathoms and in one with Point Marcelle.

Mizzenette Ledge of Rocks, with 5 feet least water, bears N.N.W. 14 miles, from the west end of Caraquette Island, and will be cleared to the northward, in 34 fathoms, by keeping Donax Point just open to the northward of Point Mizzenette, bearing of the Caraquette Shoal until they strike the Scollop Patch, which has 16 feet least water over a rocky bottom: When ou this patch, Caraquette Church steeple and the N.W. end of Caraquette Island are in one, and the S.E. end of the island will bear The Fisherman Ledge is a detached bed of rocks, with 10 feet least water, iying to

The northward of the Caraquette Bank, and separated from it by Fisherman Channel, which is a mile wide and from 4 to 7 fathoms deep. This ledge, lying more in the direction, and a third of a mile wide from 3 fathoms to 8 fathoms. The northward edge of this ledge is distant 3 miles from Caraquette Island, and its east and west Great Anse and Donar Point in one, bearing W. by N. lead through Fisherman Channel; it cannot, however, be recommended to large factor.

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Great Anse and Donax Point in one, bearing W. by N., lead through Fisherman Great Anse and Donax Point in one, bearing W. by N., lead through Fisherman Pokesuedie Shoal is an extensive flat of sand extending 2 miles to the northward and eastward from Pelesuedie Island, and has only 6 or 7 feet water over the greater bearing W. 1 S. lead over its north point in 2 fathoms at low water; and if the steeple trees on the same island, the north point of the shoal will be cleared in 44 fathoms.

The channel forming the entrance to the known of Caraquette lies between the Pokesuedie and Caraquette shoals for about 24 miles, and has water enough for the largest ships; but it is crooked, and only 220 fathems wile between very steep shoals, and without sufficient leading marks: hence its navigation is attended with some difficulty. The harbour commences immediately within, or to the westward of Pokesuedie Island, and extends westward between the mainland and Caraquette Shoal and Mizzenette, and the fish-stores and houses of Lower Caraquette nearly opposite to Point island. There are 5 and 6 fathoms in the eastern part of the harbour immediately S.E. point of the island.

Between the island and the main, the channel is only 120 fathoms wide and 24 deep; but farther westward it increases to a quarter of a mile wide and 44 fathoms across to the island. The bottom is sandy in the entrance of Caraquette Channel, and of mud within the harbour. Although this harbour is excellent for merchantexcesses of large tonnage, it is exceedingly dangerous to attempt to run for it without hour.

SHIPPIGAN SOUND.—This extensive place is formed by Pokesuedie Island and the mainland on the west, and by Shippigan Island on the east. Simon Inlet, which is the best harbour in the Sound, is situated on the western aide within Pokesuedie Island: here you can lie landlocked in water deep enough for large ships. The bays of Alemek and Little Alemek lie on the opposite or Shippigan side. Alemek Bay lies A bar of mud and sand extends across the Sound which limits the depth that can'be carried into Alemek Bay to 2² fathoms, and into Shippigan Harbour to 2¹ fathoms at low water. On the south side of the bay stand the church and village of Shippigan, and off them is the harbour of Shippigan, a narrow channel with 2¹ to 4 fathoms, water lying between shoals of mud and esi-grass nearly dry at low water. This narrow, channel continues 2¹ miles beyond the church, and terminates at Shippigan Gully, which it dries y shallow in one with the in one with a 3 fathoms by W. 4 W.,

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and and let, which base uses of Bay lies may ater. at can be fathoms inprigan, fathoms a parrow n Gully, the southern entrance of the Sound, which is used by shallops and fishing-boats. In Shippigan Gully the tide is generally very rapid, and there is often a heavy surf on its bar of sand, which partly dries at low water, leaving a channel only 4 or 5 feet deep. The harbour of Shippigan is perfectly secure in all winds, and it is, there that the greater part of the vessels which have recently visited this place for timber lie moored. At a short distance to the westward of the church is the watering-place at a small stream in Basse Bay.

The channel leading from Shippigan Flats to the church is 9 miles in length, with deep water, but it is narrow and crooked, without leading marks; and some of the banks are very steep, so that an experienced pilot is absolutely 'necessary to navigate a large vessel into this harbour with safety. In Shippigan Harbour it is high water F. and C., at 3h. 42m.; spring tides rise 5a or 6 feet, neaps 3 feet. In the channel the rate seldom exceeds a knot. The stream is regular in fine weather, running in at the Gully, to the northward, through the Sound, into the Bay of Chaleur, from about half-ebb to half-flood by the shore, and in the reverse direction, or to the southward, from about half-flood to half-ebb.

A flat extends 24 miles off the north side of Shippigan Island, and is the most northern of the Shippigan Sheals. It consists of sandstone, thinly and partially covered with sand, and has on some parts only 6 feet of water. There is good warning by the lead all along its northern side, which may be safely approached to 6 fathoms in a large ship, and to 3 fathoms in a small vessel. This flat separates the channel leading to the harbours of Caraquette and Shippigan from that which leads into Miscon Harbour.

MISCOU HARBOUR, between Miscou and Shippigan Islands, lies just within the sandy spit at the S.W. extreme of Miscou, where there are from 4 to 6 fathoms, for upwards of a mile in length; and 2 cables' length wide. This forms the harbour for large vessels; but the harbour for small craft is still more extensive, there being a considerably greater breadth with 2 and 21 fathoms water, and also a narrow channel extending eastward through the flate of mud and weeds to within a mile of Miscou Gully, which boats can only enter at high water. Within the harbour the bottom is soft mud; in the channel, just outside the entrance, sand; and, between the shoals farther out, sandstone. This place is much frequented by the American fishermen, who are good pilots for it. The Miscou Channel, leading to the harbour, between Shippigan Flat and the Shippigan Shoals, on the S.W.; and the Miscou Flats on the N.E., is only 170 fathoms wide in one part, between shoals so steep that the lead affords not the slightest warning. Only small vessels should attempt this harbour without having first buoyed the channel, or secured the assistance of a good pilot. It is high water F. and C.; at 3h. 30m.; spring tides rise 5 feet, nears 3 feet.

At fully 42 miles off to the N.W. of the S.W. point of Miscou, is the 5-fathom edge of the Miscou Flats, and at 22 miles from the same point there are not more than 8 fathoms. These flats, of sandstone, extend 4 or 5 miles to the N.E. of the harbour; and towards their northern termination there is an opening in the trees which extends across the island, and which has been mistaken by vessels, at night or in foggy weather, either for the harbour or the Gully, according as they were west or east of the island. The remainder of the shore is tolerably bold, with steep sandy beaches surrounding the north end of Miscou Island, where the hits and stores of fishermen will be seen along the shore. The north point of Miscou Island is distinguished by a green mound, or grassy sand-hill, and the shallow water does not extend more than one-third of a mile off shore; but to the eastward, opposite a small lagoon, where there are several huts and fishing-stores, shallow water, to 8 fathoms, stretches off a mile north-eastward, and to 5 fathoms 21 miles in the same direction. At 11 miles to the south-eastward of the north point is Birch Point, which is a steep cliff of sandstone about 10 feet high, and may easily be recognized by the white birch-trees, which are higher there than in any other parts near the shore. A reef of stones and sand extends half a mile out from the shore. The shoal off the north point may be avoided either by day or night, by the soundings on the chart. Very good anchorage may be obtained on either side of it; under the north point in from 5 to 10 fathoms, with southerly winds, and off Birch Point, In from 84 to 6 fathoms, with westerly winds-the bottom being of sand, which holds sufficiently well for off-shore winds. The Miscou Banks extend about 22 miles to the eastward of Miscou, and the soundings upon them will fully direct a vessel approaching this part of the coast. The

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shealest part of the banks are on an east line of bearing from Birch Point, whereon, for the first 6 miles off shore, there are only from 54 to 7 fathoms on a rocky bottom; after which the water despens rapidly, there being from 12 to 17 fathoms with red sand, rock, and shells for the next 9 miles, at the end of which if despens to 20 fathoms; 7 miles farther, with depths between 20 and 80 fathoms, over red sand, gravel, shells, to shout 40 fathoms, and the soundings change to mud. The northern edge of the Point, and passes the north point of Miscou, at the distance of 4 miles, into the Bay of Chaleur, thus affording excellent guidance to vessels. These banks continue greater general depth than in the part to which the name of the Miscou Banks has been applied.]

The Coast Southwards.—From the east side of Miscou Island to the lighthouse on Point, Escuminae the course is S.W. by S., and the distance from the north point of Miscou to the same object is SS miles. The coast between is low and wooded, with have shifting bars before them. They all afford shelter for boats; but in the whole the tance there is not any harbour for shipping until we arrive at Miramichi. The coast the day-time, as there are no detached shoals during this course, though in several places shoal water extends to a considerable distance, as at Wilson Point, on the sveral if miles to 5 fathoms at low water. Again, the shoal water extends two-thirds of a mile of Miscou Gully, 7 miles to the southward of the north point of Miscou; Island, there are rocky patches with little more than 2 fathoms, and nearly a mile off shippigan laland, and 6 miles to the northward of Shippigan Gully, there is another similar patch at nearly the same distance from the shore.

STRACTION BAY. - The north point of the bay is Point Buckland, which is low and swampy, with steep and black peaty banks. Round it and within the sandy and the inner Bay of Miramichi.

The outer bay is about 14 miles wide from the sand bars off Point Blackland to the lighthouse on Point Escuminac, and 64 miles deep from that line scross its mouth to the main entrance of the inner bay, between Portage and Fox Islands. The onter and inner bays are separated by a range of low sandy islets, between which are three small passages and one main or ship channel.

The northernmost of these islands is named Negowac Sand-Bar, which, together with several sand-bars lying off Point Blackland, form the abore for 4 miles to the W.S.W. from Tabisintac Gully. Between Negowac Sand-Bar and a small one to the shangeable character lies off it nearly a mile to the S.S.E., and had about 9 feet over channel within the gully, leading westward up the inner bay, but it is only fit for boats. Between Negowac Gully and Portage Island; a distance of 14 miles to the S. W. there are several shoals which dry nearly at low water.

Portage Island is 4 miles long in a S.W., by S. direction, and the channel between it and Fox Island is 14 miles wide. Fox Island is 34 miles long, in a S.S.E. direction; and between it and Huckleberry Island is Fox Gully, which is 150 fathoms wide at high tide, and has from 2 to 25 fathoms water, but there is a bar outside, with only 7 feet on it at low water. Huckleberry Island is about 14 miles long in a S.E. direction; and between it and the mainland is Huckleberry Gully, 200 fathoms wide, but not so deep as Fox Gully. Both Fox and Huckleberry Gullies are only fit for boats or very small craft." At rather more than a mile from Huckleberry Gully, towards Point Escuminac, stands the South Beacon, which is large and white, and of the south beacon, there are bouses, where some of the pilots reside. Point Escuminac is low, covered with spruce-trees, and may be known by its lighthouse, painted white, which exhibits a fixed light at 70 feet above the level of the sea. Esouminac

CAPE GASPE TO POINT ESCUMINAC.

Reef is very dangerous, as it runs off fully 2 miles to the N.E. to the 3-fathom mark, and nearly 32 miles to 5 fathoms. At night come no nearer than 10 fathoms.

To the seatward of these islands the shallow water rune off to a considerable distance. From the north-cast end of Negowao Sand Bar, in a S.W. direction, to the middle of Portage Island, a distance of 6 miles, the shallows run off about 14 miles; from thence they run in a S.E. by S. direction, 6 miles, to the entrance of the Ship Okannel; in the latter distance the shoals run off fully 3 miles from For's Island and the bouth part of Portage Island. An extensive flat also borders the south side of the bay, from Huckleberry Island to the pitch of Escuminas Reef, and in its eastern part, for fully 3 miles, extends 2 miles from the shore; but when you approach the pilots houses and the south beacon, you may approach within a mile of the shore. You cannot approach the land so near in any other part of the have a of the south.

cannot approach the land so near in any other part of the bay as off the south beacon. Upon the bar of Miramichi there is only a foot or two of water in some places at low spring-tides; but there is water enough for small vessels near Portage Island, and there is a still deeper part near its S.E. end. The S.E. extreme of this bar will be cleared by keeping the church at French Village in the centre of Fox Gully, bearing W. § S. A black buoy is moored at the S.W. extreme of the bar, in 3 fathoms at low water, and must be left on the starboard hand going in; and about a mile N.W. from this black buoy there is a red buoy moored in the same depth of water on the Lump (a sheal with 2 fathoms least water on the west side of the channel), and which must be left on the port hand going in. Within this red buoy the channel is clear and straight, about 000 fathoms wide, and from 4 to 7 fathoms deep, running in a N.W. § N. direction for 3 miles, until you arrive at the Spit buoy, which is also a red buoy, and must also be left on the port hand going in.

On the north point of Fox Island two small beacons will be seen on the sand hills, the one red and the other white : these kept in one, and hearing S.E. ‡ E. lead in the despest water, from 24 to 24 fathoms, to the outer red buoy of the Horse-shoe.

The Horse-shoe Shoal is § miles long north and south, and 21 miles wide. It consists of sand and gravel, with 8 feet least water, and not more than 6 feet over many parts of it. Its north-east extreme is nearly joined to the shoals of Portage Island, there being only a narrow and intricate channel left which is never used. Good anchorage may be prosured in 4 or 5 fathoms water between the Horse-shoe and the south end of Portage, where vessels, drawing too much water to cross the inner bar, may safely anohor during the summer months. The Horse-shoe Shoal is separated from the shoal which connects Fox, Egg, and Vin Islands, by the very narrow ship channel, which in one part is only 180 fathoms wide, and 24 fathoms deep. This is named the Horse-shoe Bar, or Inner Bar, over which are 18 feet water in ordinary spring-tides. The south side of the Horse-shoe is marked by buoys, which must be all left to the northward, the best water being within the distance of half a cable from them. The S.E. point of the Herse shoe extends 350 fathoms farther out to the eastward than its outer red buoy; and there is besides a patch, or mound of sand and gravel, with only 10 feet water, lying off the S.E.; point of the Hereschoe to the S.E.; so as to narrow the navigable channel between it and Fox Island to a third of a mile. The two small beacons on the north point of Fox Island are useful in enabling vessels to avoid that mound, which renders the passage of the Horne-shoe Bar so difficult for a large vessel.

The Bar of Miramichi should never be attempted by a large vessel, or by persons not properly acquainted with it, without a pilot. The Miramichi pilots will generally be found cruising about off Point Escuminae, in small schooners; but should you not meet with a pilot off Point Escuminae, and it is too late in the day to cross the bar before dark, you should stand off and on till day-light, and not shoal your water to less than 12 fathome, particularly with the wind from the castward.

MIRAMIOHI is a place of great trade, and a free warehousing port; and the different towns on its banks are rising in importance. Large quantities of timber are annually shipped here; and the salmon and Gaspersaux fisheries are also carried on in their season. The four principal towns are Chatham, Douglastown, Newcastle, and Nelsontown.

Chatham, the principal town on the Miramichi, and containing, at a rough estimate, about 1000 inhabitants, lies about 17 miles to the westward of the Horse-shoe Bar, and estimate along the south shore about 14 miles. Here rescale lie in 6 to 6 fathoms, close to the wharves. It is a straggling but rapidly increasing town, having some

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good houses, and an English Episcopalian, a Presbyterian, and a Roman Oatholic church, besides two other chapels or places of workhip belonging to the Wesleyand and Antiburghers. These buildings are all of wood, neatly painted and finished, and together with the steam saw and grist mills of the Messre. Cunard form the most remarkable objects.

Douglastown is on the north shore, sbout 14 miles above Chatham, and contains about 400 inhabitants. It is prettily situated on a rising ground, and has sufficient water at its wharves for the largest ships. The Marine Hospital, built of stone, is the most remarkable building. The ship-building establishment of Mr. Abram is 14 miles above Douglastown, on the same side of the river; and opposite to it on the south shore is the English Episcopalian Church of St. Raul.

Newcastle, 11 miles farther up the river, and on the north shore, is, the county town, containing the Court-house and Jail, a Presbyterian church, a Wesleyan chapel, and some other good buildings. It is pleasantly situated, and contains about 1000 inhabitants. Here are 6 or 7 fathoms water close to the wharves of. the town.

Nelsontown is the last village: it is a straggling place, with 200 or 300 inhabitants, ehiefly Irish. Here is a large wooden Roman Catholic church: it stands on the south shore, opposite the east end of Beaubere Island, and a mile above Newcastle. The river is navigable as far as Beaubere Island for any vessel that can cross the Horse-shoe Bar.

TIDES.--It is high water at Miramichi Bar at about 5h.; spring-tides rise 5 feet, nears 3 feet. At Sheldrake Island, at 6h.; spring-tides rise 5 feet, and nears 3 feet : the ebb-tide runs at the rate of 3 miles an hour in the Sheldrake Channel. It is high water at Beaubere Island, F. and C., at 6h. 30m.; spring-tides rise 6 feet, near-tides 4 feet; the ebb runs at the rate of 2 knots, and the flood about a knot. At the rapids, in both the S.W. and N.W. arms, the tides flow until 8h., and they rise here about 2 feet.

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POINT ESCUMINAO. as before mentioned, is low, covered with spruce-trees, and rendered conspicuous by its lighthouse, which is painted white, and serves to warn ressels of their approach to the reef which runs off 3 miles N.E. from the point.

At by miles S.S.W. from Point Escuminao is Point Sapin, and the intermediate shore is very low and shallow. The Sapin Ledge lies directly off the point, and is very dangerous, having only 12 feet on it, and lying right in the track of ships rolling alongshore. In the night time it should not be approached nearer than 9 fathoms; and it should at all times be remembered that there are 6 fathoms at only about 2 cables' length from it. This ledge is \$\$ miles long from east to west, and half a mile broad; from its outer edge Essuminae lighthouse bears North, distant 6 miles, and Point Sapin E.S.E. § E., 2§ miles. A depth of \$\$ fathoms will be found between it and Point Sapin.

From Point Sapin to Richibuoto Head the course and distance are S. 4 W. nearly 20 miles, across Kouchibouguac Bay, the shores of which are very low, with sand-bars and beaches, inclosing lagoons, through which rivers flow into the see. Kouchibouguac River, after flowing more than a mile through an extensive lagoon, nearly dry at low water in spring-tides, enters the sea by an outlet through sand-bars about 9 miles S.W. from Point Sapin. This river has a har of sand which frequently shifts. A depth of 9 feet at high-water and spring-tides could be carried in over the bar at the time of Captain Bayfield's survey in 1839. The tides rise from \$\$ to 4 feet, and flow 8 miles up the river. In all the northern part of Kouchibouguac Bay the shoal water (that is, to 8 fathoms) extends to some distance off shore, till it joins the Sapin.

BIGHTEDUCTO RIVIES is, among the rivers on this part of the coast, inferior only to the Miramichi, either in the distance to which it is navigable, or in the depth of water over its bar. On its banks there are flourishing and rapidly increasing settlements. The town of Liverpool stands about 8 miles within the entrance, on the north aide of the river.

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The entrance of the Richibucto lies between two sand-bars, several miles in length, named the north and south beaches, on which there are sand-hills 30 feet high; it is about 360 fathoms wide. Any vessel that can pass the bar may be taken 13 miles up the river, and small vessels can go up nearly 20 miles. A pilot is absolutely necessary.

A reef of sandstone extends off Richibucto Point (which is the S.E. extreme of the south beach, and 3¹ miles from the river's mouth) to the distance of a mile from the high-water mark, and continues 2 or 3 miles farther to the southward, to Richibucto Head, which is 50 feet high, and composed of sandstone and clay cliffs.

The course and distance from Richibucto Point to the S.E. extremity of the Buctouche sand-bar is S. 14 miles. In this space there is nothing worthy of notice excepting the small river Shockpish, which affords shelter to boats at high water.

The North Patch, of only 12 feet, must be carefully avoided when approaching Buctouche Roads from the northward ;, it has 5 fathoms just outside of it. It lies on the N.E. part of the duter bar of Buctouche, and 2 miles off the shore, with Cocagne steeple and the N.W. extreme of Cocagne Island in one, bearing S.S.W. J.W., and the south end of Buctouche Sand-bar S.W. by W.; by keeping in five fathoms you will pass outside of it. The Outer Bar of Buctouche is a long ridge of shady and rocky ground with from 21 to 31 fathoms, extending to the southward, and parallel to the shore from the North Patch nearly to Cocagne, a distance of 7 miles. Between it and the shore there is a narrow channel of various depths, from 31 to 0 fathoms.

Buctouche Roadstead, off the entrance of Buctouche Biver, and in the widest part of the channel within the outer bar, is perfectly safe for a vessel with good ground tackle; the ground being stiff clay, and the outer bar affording protection from any very heavy ees. It is here that vessels of too large a draught of water to enter the river, lie moored to take in their cargoes. When approaching this anchorage there is nothing in the way of vessels that do not draw too much water to cross the outer bar, except the North Patch, before mentioned; but large vessels will find more water (not less than 3½ fathoms) by approaching from the northward, by attending to the following directions. If off the coast, with a leading wind, bring Buctouche steeple to bear to the southward of west, and run in shore with it on that bearing, in order to pass to the southward of the North Patch. As you run in, you will, if the weather be favourable, observe Cocagne steeple open out to the westward of Cocagne Island, so as to be seen between the latter and the mainland; and you must continue your course till the steeple comes on with the extreme of Dickson Point (a small penineuls point about 2½ miles to the southward of the sand-bar). Change the course immediately, running with Gocagne steeple and Dickson Point in one, bearing S.S.W. ½ W., and they will lead you close inside of the outer bar, and clear of a small shoal lying between it and the abore, on which there are not less than 2¼ fathoms. Take care not to shout the bore, on which there are not less than 2¼ fathoms. Take care not to shout the beards of the souther steeple opens out to the westward of the sand-bar, and immediately after Buctouche steeple opens out to the westward of the sand sandy islet which forms the S.W. point of Buctouche Sand-bar, you will observe two which bears on the mainland come in one, bearing N.W. by W. ½ W.; anohor with them in one; and Cocagne

• The bar of this river appears to be more dangerous than formerly, it having been said that vessels drawing 13 feet are unable to cross it. We copy the following from the Shipping Gazette of Nov. 20th, 1863; — "The entrance to the port is impeded by a said bar, about 35 miles from the town of Liverpool. It is stated, in the sailing direction book for this coast, the depth of water for the town is 135 feet at low, and 175 feet at high water, spring-tides. We find that vessels drawing 13 feet of water have been detained several weeks for want of sufficient water on the been detained several weeks for want of sufficient water on the been detained several weeks for want of sufficient water on the from the rides are more or less infinenced by winds. As the entrance is exposed to heavy gales them to be a state of the tide are more or less infinenced by winds. As the entrance is exposed to heavy gales all of the train a open set, so that if th by us N.E. gale, a reseal must unavoidably go on shore; it is almost impossible to escape. There are no less than ten wrochs at the entrance of said harbour of in ones). Another danger is, when outside with rafts of timber or deals alonging the sit. There are lost in consequence of the heavy swell that a N.E. breeze consultant, which separates the tiers and they then go addit. "We would recommend matters of weeks not to lost to adeapter drawing then it less than the water applies than 11 feet 9 inches, to insure their going over the bar at high-water appring."



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steeple open about its own breadth to the left or eastward of Dickson Point, and you will be in the best borth in 34 or 4 fathoms at low water, and with excellent holding-ground. If the state of the weather should prevent the leading mark from being distinguished, the chart and the lead ought to be sufficient guides. and de

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Buctouche River enters the sea to the S.E., through the shallow bay within the Buctouche Sand-bar. The two white beacons, before mentioned; which point out the best anchorage in the roadstaad, are intended to lead in over the bar of sand and flat sandstone, in the best water, namely, 8 feet at low water, and 12 feet at high water in ordinary spring-tides. To enter the river, the assistance of a pilot is absolutely necessary, as the channel is narrow and intricate.

Cocagne Harbour, 6 miles south of Buctouche, lies between Cocagne Island on the north side and Point Renouard on the south side. It is a very small harbour, and requires the assistance of a pilot.

At nearly 4 miles to the southward of Cocagne, and nearly 10 miles S. F. from the S.E. point of Buctouche Sand-bar, is Shediac Point, off which the Grandigue Sheal, with from 14 to 15 feet water, extends to the distance of 2 miles, having the least water near its outer edge. You can pass outside of this sheal by not approaching the shore nearer than 5 fathoms at law water.

SHEDIAC BAY is 62 miles wide from Shediac Point to Point Bouleaux, and about 6 miles deep. Near the head of the bay is the island, within the north end of which is the village, accessible for small vessels. The harbour lies between the S.W. point of Shediac Island and Point Chêne; the latter bearing from the former B.S.E. three-quarters of a mile. A sandy bar runs out from Point Chêne to the northward, 600 fathoms, and is dry for nearby thalf that distance at three-quarters ebb. This bar, together with the shoal farther out, off the S.E. point of Shediac Island, render the harbour very secure. Near the middle of the bay, which is all shallow, three are two rocks, of 7 and 8 feet, lying E.S.E. from the contre of Shediac Island. The easternmost, named Medes Rock, lies 2 miles from the island; the wattern, named the Zephyr Bock, lies nearly midway between Medea Rock and the island. The passage into the harbour is to the uorthward of the above rocks, and along the castern side of Shediac Island, about two-thirds of a mile from it, between the shoal off the S.E. point of the island and Zephyr Bock.

Shediao, although well situated, is not a place of much trade, only a few cargoes of timber, principally deals, being shipped at it annually for the British market. Strangers bound to this place should have the assistance of a pilot. The depth that can be carried in by a good pilot is 14 feet at low water, and 18 feet at high water in ordinary spring-tides. The Shediac and Scoudous are very small rivers, only navigable for boats for a few miles. The tides at Shediao, when unaffected by winds, rise 4 feet in ordinary spring-tides, and 3 feet in neap-tides; and the rate of the stream of either ebb or flood seldom exceeds half a knot.

Between Point Bouleaux and Cape Bald are Bouchagan and Kouchibouguet Rivers, which can only be entered by beats at high water. A reef extends more than a mile from the shore off Point Bouleaux, but Cape Bald, 11. miles eastward of Shediac Island, is bold and may be safely approached by the lead to 5 fathoms.

Shediae Island, is bold and may be safely approached by the lead to 5 fathoms. From Cape Bald to Cape Bruin the bearing and distance are S.E. by E. nearly 18 miles. In this distance the coast is free from danger, the sheal water extending only about half a mile off shore; and a vessel may askely approach at night to the depth of 6 fathoms at low water. But greater caution will be requisite farther to the eastward on account of the dangerous shoals which commence off Peacock Cove, which is in the bay between Cape Bruin and Cape Jourimain. Great and Little Shemogue Bivers are 7 and 91 miles respectively to the S.E. by E. of Cape Bald. They are only fit for boats and very small vessels, having very narrow and intricate channels, over shifting bars of sand. Good anchorage may be got off these rivers in 5 or 6 fathoms andy bottom.

Cape Jourimain bears S.E. by E. 1 E., 61 miles from Cape Brein, and is the north extreme of the Jourimain Islands, and forms the fexts in point of land to vessels running through the Strait of Northumberland, either from the eastward or westward. There is good Inchorage in the bay between Cape Bruin and Cape Jourimain, in 5 fathoms, sandy bottom, and shelter with winds from the S.E. by E. round by south to W. by N. The Jourimain Shoals are very dangerous to vessels in the night, and the lead should always be topt going when approaching them in dark weather ; and

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when to the eastward of them, come no nearer than 9 fathoms, but to the westward they may be approached as near as 7 or 6 fathoms. Shoal water extends from the cape, N.N.W. $1\frac{1}{2}$ miles, and from thence it extends $4\frac{1}{2}$ miles to the S.E.; near this point of the shoal is a patch of only 6 feet at low water, as shown by the chart; this lies $1\frac{3}{2}$ miles from the shore, and is very dangerous, being bold-to oh the east side. To the westward of the cape the shoal water extends fully 4 miles, and runs off fully 2 miles from the shore; but you may approach this part to 6 or 5 fathoms.

OAPE TORMENTINE is the great headland which forms the eastern extremity of New Brunswick within the gulf. Indian Point may be said to form the southern, and Cape Jourimain the northern points of this headland, which is a place of importance in a nautical point of view, not only from its position, but from its consequence of the strong tides in their vicinity. They extend off Indian Point rather more than 3 miles to the E.S.E., and there is rocky ground, with 4 fathoms, fully a mile farther off shore. The part of these reefs which dries at low water is very small, and bears E.S.E. J. E., 24 miles from Indian Point. These reefs should, at all light winds, be approached mearer than 9 fathoms, when to the north-eastward of them, as the floot ide sats over them to the southward, into Bay Verte, at the rate of three knots, causing a great rippling over the part that dries, and thus indicating its position. There is a patch of rocks, with 7 feet at low water, nearly midway between the dry part of the reef and Indian Point. Small vessels carry a depth of take shelter miler the latter in mortherly winds.

.BAY VERTE is 9 miles broad across its entrance, from Indian Point in New Branswick, to Coldspring Head in Nova Scotia, but contracts to the breadth of 23 miles near its head. It is 111 miles deep, and separates the two provinces just named; their boundary continuing across the isthmus from the head of Bay Verte to Cumberland Basin, a distance of about 11 miles. There is no harbour in Bay Verte, and it is completely open to easterly winds, as well as very shallow near its head, the shore.

Gaspereau River lies in the northern corner of the head of the bay, and half a mile to the southward of its month are the remains of Fort Monekton, on Old Fort Point, now washed by the sea.

Tignish River, the principal stream in the Bay of Verte, enters the bay on the south side near its head. When the tide is out, the very narrow channel of the river has only 3 feet of water, and it is approached by a narrow channel, from 3 to 7 feet deep, through flats of mud and weeds, which dry out a little from its month. Considerable quantities of deals are annually raited down this river, from whence they for the British market. Spring-tides rise 9 feet, and neap-tides 0 feet.

Tignish Head lies on the eastern side at the mouth of the Tignish River. There are two patches of stone with 3 and 5 feet water, at the distance of half and threequarters of a mile N.N.E. & E. from Tignish Head, but as these are within the 3-fathom line, they require no farther notice. At 44 miles south-eastward of Tignish Head is Boss Spit, which dries out to its edge, and is so steep-to that there are 17 feet of water close to its outer point; you should keep in 34 fathoms when passing this spit. At 34 miles south-eastward of Boss Spit is Coldspring, Head, which lies N.N.W. I wile an analyze the south the south the south state of the south state o

In the entrance to Verte Bay are some shoals, which should be avoided when navigating this part of the Strait of Northumberland, viz., Aggermore Rock, Laurent Shoal, Heart Shoal, and Spear Shoal.

The Aggermore Rook, with 18 feet least water, lies N.E. + E., 24 miles, from Coldspring Hoad, with a deep water channel between; but in a N.W. by N. direction, towards Cape Laurent, not more than 84 fathoms will be found at low water, and in some places less.

Laurent Shoal, of rock, and sand, with 16 feet least water, is about three-quarters of a mile long, by half that in breadth. On the shoalest part Cape St. Laurent bears N.W. by N., Sh miles, Indian Point, N.E. by E. 1 E., and Coldspring Head, S.S.W. 1 W. There are 41 fathous close to the east side of this shoal.

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Heart Shoal, with 9 feet least water, lies S.W. by S., 12 miles, from Cape Spear. There are 15 feet between it and the shore.

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Spear Shoal lies about a mile E.S.E. from Heart Shoal, and has a patch of rock with 10 feet least water near its east end, and from 15 to 18 feet in other parts. It is a bank of sand and stones, resting on sandstone, about a mile long, from east to west, and one-third of a mile broad. When approaching this shoal from the eastward the lead gives little warning, as there are from 84 to 44 fathoms close to it on that side ; but by coming into no less than 44 fathoms, ressels will avoid it, as they pass it to the southward. From the shoalest part Cape Spear bears N.W. by N., 14 miles, and Indian Point N.N.E., 24 miles. Between it and Cape Spear there are 34 fathoms.

Indian Foint N.N.E., 32 mines. Detween it and tape open there are of indiants. From Coldspring Head to Lewis Head the hearing and distance are S.S.E. } E., 8 miles, and at 22 miles E. by S. of Lewis Head in Pugwash Point. Between Lewis Head and Pugwash Point is a bay into which the Rivers Philip and Pugwash run, the former in its western side, and the latter in its eastern. Lewis Reef extends 22 miles to the N.E. from Lewis Head; its outer part is composed of detached rocky patches, on which there are from 14 to 18 feet of water, with a greater depth between them; but the inner part is very shallow, and has as little as 6 feet of water at the distance of 12 miles from the shore.

Philip River disembogues to the southward of Lewis Head, and between the latter and Bergeman Point. There is a daugerous bar of stones and sand scross its mouth, so situated as to leave only a very narrow and crooked channel of 8 feet at low water, through which the new vessels, built up the river, and brought down light, are taken with difficulty on their way to Pugwash, where they load, and where, also, the lumber and produce brought down this river are taken to be shipped. Boats can go up about 9 miles, and there are increasing settlements along the borders of this river.

FUGWASE EARDOOT lies at the head of the bay of that name and to the southward of the point. There is a depth of 14 feet at low water on the bar, in ordinary spring-tides, within which is a crocked channel, from 50 to 100 fathoms wide, leading to the harbour: to sail through this channel requires the aid of a pilot, who will be obtained in answer to the usual signal. The harbour is a land-locked basin, having a depth of nearly Y fathoms, in which vessels loading lie moored in perfect security. There is high water at Pugwash, F. and C., at 10h. 30m.; ordinary spring-tides rise 7 feet, and neap-tides 4 feet. The rate of the tidal streams seldom exceeds a knot in the roadstead, and in the entrance of the harbour it is generally less than 3 knots.

A reef runs out from Pugwash Point three-quarters of a mile N.W. by W., and dries out about half that distance. At $\frac{1}{2}$ of a mile off the point to the N. and N.E., there are rooky patches, with 11 and 12 feet of water, and there are others farther to the eastward, a full mile out from the shore: there is also uneren rooky ground, with a less depth than 4 fathoms, 2 miles off shore, and which renders it unsafe for a stranger in a large ship to go within the 5-fathom line.

The roadstead is sheltered by Philip Bar and Lewis Reef from W. and N.W., and by Pugwash Reef from E. and N.E. winds. It affords excellent anchorage, in from 16 to 19 feet at low water, sand and elay bottom; but exposed for winds between N.N.W. and N.N.E.; although the shallow water outside prevents any sea from soming in sufficient to endanger a vessel during the summer months. To take Pugwash Road, you cupt to have a pilot, but if unable to get one, then, should you be to the northward, in 5 fathome, you must bring the English Church steeple, at Pugwash, so as to be seen over, and only just within, the west extreme of the low cliff of Fishing Point, the east point of the bay, bearing S. by E. \pm E.; running, with these marks you must not open the church in the least to the westward of the point, until the south point of Philip River (Bergeman Point) bears S.W. by W., or the Pugwash Reef; now change your course to S.S.W., three-quarters of a mile, when you may anchor, in 16 fest at low water, with Fishing Point E. by B. \pm B., distant about half a mile, or you may lie in 14 feet, half a mile farther to the gouthward.

At 9 miles E.S.E. from Pugwash Point is situated Cape Cliff, and 3 miles farther to the S.E. is Oak Island. The coast between is unbroken and terminates in Point Mackensie, which is separated from Oak Island by sand-bars and a gully for boats

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nearly dry when the tide is out. Oak Island is about a mile long, and has Jerry Island half a mile to the westward of it, on the north side of Fox Bay, just within Point Mackenzie. To the southward of Oak Island a bay runs in westerly about 2 have Harbour (formerly Ramsheg) on the south-west. Fox Bay runs in 3 or 4 miles to the north-west, with a channel through flats of tenscious red clay and weeds, which are nearly dry at low water. In this channel are 3 or 4 fathoms of water; but a depth of 8 or 9 feet is all that can be carried over the bar at low water in ordinary spring-tides.

WALLACE MARBOUR.—This harbour is the best on the coast, excepting Pictou, and has 16 feet over its bar at low water of ordinary spring-tides, which rise 8 feet, so that it is capable of admitting very large ships. The entrance, which is W.S.W. $\frac{1}{2}$ wiles, from Oak Island, and between two sandy points, named Palmer and Caulfield Points, is 2 cables' length wide, and $6\frac{1}{2}$ fathoms deep; above this the channel is crocked and difficult, although it is 160 fathoms wide. A pilot is always therefore necessary, and may be obtained by making the usual signal. It is high water, F. and O., at 10h. S0m.; spring-tides rise 8 feet, neaps 5 feet, and their velocity does not exceed 14 knots. When approaching Wallace Harbour from the northward, Oak Island should have a berth given to it of nearly a mile; or keep in 5 Taboves, to avoid the reefs off its east side.

From Oak Island to the eastern point of Saddle Ialand the bearing and distance are S.E. by E. 6 miles. This island is small and low, and joined to the shore by shoals drying at low water; from its eastern point a dangerous reef extends about a mile, and has on it a rock named the Wash-hall, dry at low tide. To clear this reef on the uorth side, bring Treen Bluff just open north of Saddle Island bearing W. $\frac{1}{2}$ N., in the vicinity of the reef, and a nearer approach should not be made than 6 fathoms on its eastern side.

From Saddle Island the bearing and distance to Cape John are S.E. by E. 3 E. 5 miles. Within this line of bearing the coast-line bends inwards and forms a large bay named Tatamagouche, in which are several harbours and anchoring places.

TATAMAGOUCHE BAY, oz, AMET SOURD,—Immediately outside the entrance of this bay are Amet Islet and Shoals, and the Waugh Bank, which render the bay rather difficult of access. The islet is small and flat at the top, and covered with coarse grass. It is shout 20 feet above the sea at high water, and was formerly much larger than at present. Shallow water extends 300 fathoms to the westward from the island, and may be cleared in not less than 3 $\frac{1}{2}$ fathoms, if the English steeple at the River John be not shut in behind the western side of the cape of the same name; but large ships should stand in only to 6 fathoms, and take notice that in every other direction shallow water extends from the island to a far greater distance. The shoals extend nearly 4 miles to the eastward of the island, and 2 miles to the south-eastward toward Cape John. In both directions are rocky patches of 5 or 8 feet, at rather more than a mile from the island; but there are not less than 16 feet beyond the distance of 2 miles, although there is a patch of that depth at fully 8 miles to the eastward of the island. The marks for this latter patch are the north extremes of Amet Islet and Treen Bluff in one, bearing W. $\frac{1}{2}$ N., and Cape John S.W. $\frac{1}{2}$ S. The northers side of these shoals is very steep and should not be approached by a large ship in the night-time nearer than 10 fathoms.

The Waugh Bank is to the westward of Amet Islet. It is about 14 miles long, with soundings of 2 to 5 fathoms, and from its position and steepness is very dangerous, so that it should not be approached from the northward nearer than 7 fathoms, that or 6 fathoms, bring the shallowest and steepness. To clear it on the N.E. side in 5 S.E. 1 S. or the western side of Cape John and the English. Episcopal steeple at the River John in one, bearing S.E. 2 E.; and, on the S.E. side in 4 fathoms, the east orn extreme of Mullegash and Chambers Points in one, S.W. 4 S. Chambers Point is low and at times difficult to distinguish, on account of the high land behind it.

Cape John, the northern point of the bay, is about 40 or 60 feet high, and has a reef extending from it about 4 cables' length, on the inner part of which are two rocks always above water. This reef is steep-to, especially at its western part, where there are 7 fathoms close-to, being deeper here than anywhere else. From the north-

Cape Spear.

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eide of the cape shallow water extends half a mile to the depth of 3 fathoms, rendering it necessary for vessels to keep in not less than 4 or 34 fathoms. Within the cape is John Bay, which runs 4 miles to the S.E., and as far as the entrance of the river is clear of danger, yet the shoals from its shores are steep and should not be approached mearer than 34 fathoms. Sandy shoals occupy the head of the bay, drying out half a mile. On the bar of the river there is only a foot at low water; here several ships are built.

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Nearly in the centre of Tatamagouche Bay is Brulé Peninsula, which is rather low and wooded, and has a reef extending from it 400 fathoms towards the N.W., partly drying at low water, and so bold that the lead gives but little warning of approach. Off the point are some shoals extending 14 miles to the northward; which are rocky with irregular soundings, and have 9 feet least water not far from their outer edge. They should be approached very cautionaly, as there are 4 or 6 fathoms close to the edge. Within the peninsula, is the harbour, having upon its bar a depth of 14 feet at low water; when inside the bar there are 19 feet for a short distance, but the ohannel soon becomes very narrow, running between flats of mud and weeds. The sucharage outside the bar, in 34 fathoms, muddy bottom, is considered the best sheltered place in the sound; to anchor in the best berth bring Brule Point N.W. by N., Conn's white house * S.W., and Cape John N.E.

Tatamagouche Harbour is to the westward of Brulè Peninsula, lying between it and Mullegash Point. It is 24 miles wide at its entrance, and runs in 7 miles to the westward, affording good anohorage everywhere, on a bottom of soft mud, but large ships cannot go far up. From 5 fathoms at the entrance the depth decreases to 3 shallow, part drying at low water. A took, with only 7 feet on it, lies 34 cables' Mullegash Point touching, bearing E.N.E., clear it to the southward, distant 120 fathoms. A stranger may bafely approach to 8 fathoms at low water; but in entering, keep well over to the northward, to avoid the Brulè Shoals, extending from Brulè Point. On the N.E. side the English Church steeple at the River John, just open to the northward of Long Point, bearing S.E. 4 E., clear it to the south and Fathoms. The north and

N.W. sides are very steep, but the east and S.E. sides may be approached by the lead. Tatamagouche River is in the S.W. corner of the bay, 5 miles within the entrance. Several vessels visit this river for lumber every year; they anchor off it in 11 or 12 feet at low water, and lie aground on soft mud, as the tide falls, without injury. High water, full and change, at 10h.; spring-tides rise 8 feet nears 5 feet

water, full and change, at 10h.; spring-tides rise 8 feet, neaps 0 feet. When approaching Tatamagouche Bay from the eastward, between Cape St. John and Amet Island, keep nearest the cape, to avoid the Amet Shoals, that narrow this obannel to about three-quarters of a mile. When coming in to the westward of Amet Island, the passage between Amet Island and the Waugh Shoal'to the westward, is a full mile wide, and from 6 to 10 fathoms deep; the leading mark for running through this passage in Brule Point and Conn's House in one, bearing S. by W. The western passage into Amet Sound, between Waugh Shoal and Saddle Reef, is a mile wide, with o to 8 fathoms in it. When bound to John River, or Tatamagouche, pilots may be obtained by making the usual signal.

From Cape John the coast trends S.E. by E. $\frac{1}{2}$ E., 15 miles, to Caribou Island, and is free from dangers. The island is about 4 miles long, and appears at a distance like several islands, but a nearer approach shows these to be joined together by sandbars. A rest extends from the eastern point of the island towards the N.N.E., nearly three-quarters of a mile, and is composed of large stones; it is very dangerous, as there is a distance of a mile, and is north point and eastern side. Cariben Island with the main incloses a harbour available for small vessels. At

its entrance is a small island, named Dostor Island, on either side of which there is a passage. From the eastern point of the island a reef runs to the eastward 12 miles, and partly drive at low water. To the southward of this and two-thirds of a mile from the same point of the island are the Seal Rocks, dry at low water, from which the shallow water, forming the bar of Caribou Harbour, extends to Logan Point, the

• This stands a short distance back from the southern shore of the harbour, and is at present (1847) the only two-storied house in that place, and has a large barn close to it. It bears S. by W.

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north point of Picton Bay. Caribou Harbour is about 6 miles long and one broad, and is too shallow and difficult of access for any but small vessels.

PICTOU ISLAND lies to the north-eastward of Caribou. It is shout 44 miles long by about 14 broad, of inoderate height, and well-wooded. Its western point may be passed in 3 fathoms within half a mile, but on either side of it there are rocks, hearly dry at low water, extending 300 fathoms from the shore. The north shore of the island should not be approached nearer than 9 fathoms, particularly at night, but the southern shore may be approached to 5 fathoms. Off the east point of the island a dangerous reef runs nearly a mile to 5 fathoms, and partly dries at low water; near it are 9 fathoms, so that great caution is required when "salling in its violnity, particularly at night, and with a flood-tide.

From Pictou Island a bank extends to the west and south 34 miles, upon which are 24 to 6 fathoms, on a bottom of sandstone thinly covered with sand, gravel, mud, and broken shells. On the northern part of this bank is a series of rocky patches, named the Middle Shoals, having 11 feet least water. They are about 14 miles in extent, in a W. by S. direction, and may be cleared to the northward in 4 fathoms by bringing Roger Point (the middle point on the south side of Pictou Island) and the west point of the same island in one; but large vessels should not approach them on that side nearer than 7 fathoms.

Between Pictou Bank and the shoals extending from Caribou Island is a channel about half a mile wide with a sufficient depth of water for the largest vessels. It is somewhat difficult to navigate being so crooked that no leading marks direct through the whole extent, nevertheless the following instructions by Captain Bayfield may be of some service ; he says that, " the safest mode of running through this channel to the westward, is to strike soundings in 6 or 7 fathoms on the edge of the shoal water off Doctor Island, and follow it to the N.W. until Mackenzie Head is just shut in behind Logan Point, bearing S. 1 W. Then steer from those marks, keeping the Head just shut in, and they will lead across the deep water, and afterwards along the western edge of the Pictou Island Bank out to ses. If the wind were strong from the S.W. with an ebb tide, it would be preferable to keep on the weather side of the channel, in which case the edge of the shoal water off Doctor Island should be followed further to the N.W., until Logan Point is only a little open to the eastward of Doctor Point, bearing S. 1 E. Those points in one lead along the east side of Caribou Reef at the distance of a cable, and in 4 fathoms. Keep Logan Point a little open, and it will lead clear out to sea in not less than 41 fathoms. The same marks and directions, taken in a reverse order, will enable a vessel to take this channel from the northward or westward, it being only necessary to add, that she should not haul to the eastward until the Hawksbill is well shut in behind Caribou Point, nor open out the former again after having shut it in, until the lighthouse at Pictou is open to the southward . of Cole Point; the lighthouse and Cole Point in one, bearing S.W. by W. # W. being the mark for clearing the south extreme of the Pictou Island Bank in 5 fathoms.

PICTOU MARBOUR, about 3 miles to the southward of Caribou, is in every respect the finest on the southern shores of the gulf, being expable of receiving ships of any burthen; here are coal-mines, valuable quarries of building stone, and a finely settled country in its neighbourhood. Pictou has been declared a free ware-housing port; and its trade is xery considerable in lumber, coal, and the fishery. The trade of this port appears to be repidly increasing, and the town of New Glasgow, up the East River, in the neighbourhood of the coal-mines, promises to be of considerable importance. Coasters, from all parts of the gulf, resort to Pictou; and its exports have amounted to £100,000 in one season. A steamer runs regularly between Pietou and Quebes; and there is a regular communication by land with Halifax.

The town of Pictou stands on the north shore of the harbour. The houses are crowded together along the shores of a small bay, but all except the church steeples are hidden from vessels entering the harbour, by Battery Point, which shelters them from easterly winds. Many of the dwelling-houses are of stone, and the population upwards of 2000. Opposite the town the barbour expands into three arms, at the heads of which are the East, West, and Middle Rivers; the two latter are only used by boats.

The north point of entrance is Logan Point, and the south point is Mackenzie Head,

which may be easily recognized by presenting a sharp-pointed cliff of clay and sandstone 40 feet high. Off Mackenzie Head to the N.E. by E. nearly a mile, is a shoal of 16 feet least water, with no safe passage between for large vessels; the marks to clear it at one cable's length to the eastward are Caribou and Doctor Points in onebear it at one caple s rength to the ensurance at the distance of 200 fathoms, the bearing N. by W. $\frac{1}{2}$ W., and to the northward at the distance of 200 fathoms, the lighthouse in one with the town point at Picton, bearing W. $\frac{1}{2}$ S. From Mackenzie Point to the lighthouse the water is shallow for about half a mile out; about half-way between is Boat Harbour, the entrance to an extensive lake:

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On the opposite or northern side of the harbour reefs extend from Logan Point. fully half a mile, which may be crossed in 14 feet at low water by bringing the light-house and Cole Point in one, bearing S.W. by W. 4 W., but vessels should not approach nearer than 4 fathoms. From Cole Point, a mile to the southward of Logan Point, a reef also extends out about one-third of a mile, and continues westward to the commencement of London Beach on the north side of the entrance to the

The Lighthouse, an octagonal wooden structure, on the southern side of the entrance, is painted vertically with red and white stripes, and exhibits, a fixed light at 65 feet above the sea, visible 12 or 14 miles. When brought in one with Cole Point, bearing S.W. by W. 4 W., it clears the reef off the east end of Pictou Island, half a mile; and also the southern extremity of Pictou Island Bank in 51 fathoms, If beating into the harbour, tack, when standing to the northward, the moment the light begins to disappear behind Cole Point. If running in, keep the light W.S.W., till you get soundings in 5 fathoms, at low water, off Logan Point, and follow that depth 11 miles to the S.W., taking care not to bring the light to the northward of West. Here you may anohor in

The pilots at Pictou (who are generally active experienced men.) are always on the look-out for vessels; but should you not meet with one, there is good anchorage in Pictou Roade in 5 to 6 fathoms, with the lighthouse bearing West. Here you might wait for daylight to obtain a pilot; a stranger, particularly in a large ship, should not attempt to cross the bars without one, although there is good water on both bars. The outer bar has 21 feet at low water, bottom of sand; crossing this bar you.fall into 4, 5, or 6 fathoms for about a mile, when you suddenly shoal again to 18 or 19 feet on the inner bar; this bar is also of sand, about a cable's length wide, and distant 4, cables' length from the lighthouse ; when across this inner bar the water continues deep to the entrance of the harbour. There is very good and nege between the bars, but it is open to the N.E. winds. From the lighthouse to the anchorage off the east ernmost wharves at Pictou, the channel of the harbour is direct, nearly one-third of a mile wide, deep enough for the largest ships, and clear of danger.

To enter Pictou Harbour with a fair wind, when without Mackenzie Shoal, bring the lighthouse and town point of Pictou in one, bearing, 1 or 2 degrees to the south-ward of west ; or, which is the same thing, with Smith Point, the extreme of the land, on the same side beyond the town. Run with these marks on, until Logan and Cole Points come in one, bearing N.E., when instantly sheer a little to the northward, Sufficient to bring the town point in one with the north extreme of the Sandy Spit. Keep the last named marks exactly in one, until the Rearing Bull comes in one with Mackenzie Head, bearing S.E. by E. $\frac{1}{2}$ E., when change the course smartly, and run from those marks, keeping the Rearing Bull just in sight, until the North extreme of Moodil Point (the first point on the south side within the lighthouse) jopens to the northward of the Sandy Suit: then havit to the meetward at first town to the to the northward of the Sandy Spit; then haul to the westward, at first towards the S.W. extreme of London Beach, and afterwards so as to pass midway between it and the Sandy Spit into the harbour. With a beating wind a pilot is indispensable. It is high water, full and change, at the lighthouse, at 10h.; spring-tides rise 6 feet, neaps 4 feet. With good tides you will carry 4 fathoms over the bar.

Mr. George Peacock, Master of H.M.S. Andromache, 1839, gives the following account of Picton Roads and Harbour.

"Pictou is a place of rising importance; its timber trade has rather fallen off of ste, but the coal-mines in the immediate neighbourhood have oppined a very brick trade in that article, which occupies some hundreds of vessels, of all dimensions, in the coasting and foreign trade, many of which carry from 500 to 700 tons, chiefly trading to the United States. The best anchorage in Pictou Boads is in 7 fathoms, with the following bearings :

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-the lighthouse West; Point Caribou North; and the Roaring Bull Point S.E.; the latter is a high bluff, pointing to the southward, and has a small white house on the alope. From this bluff a reef extends north three cables length, and from Point Caribou another, west, nearly half a mile. Here you are sheltered completely from the S.E. by the S., round to north, and, in a great measure, as far as N.E. by the island and reefs off it. In fact, the only winds that throw in any sea, are those from the S.E. by E. to N.E. by E., and they are fair for running into the harbour, which may be attempted, in almost any weather, by ships drawing from 18 to 20 Nect.

To run in, bring the small white house to the left of the lighthouse, and close to it, on with a long building appearing off the starboard point of the harbour, (it lies to the left of a small but remarkable gap in the N.W. land,) bearing W. $\frac{1}{2}$ N.; keep them on until Roaring Ball Point begins to be shut in with the east land, by which time you will be pretty close to the low sandy beach on which the lighthouse stands: than haul over to the northward, toward a bushy tree, standing by itself on the north above, until you are in mid-channel between it and the lighthouse point. You may then proceed up the harbour, west, in mid-channel, toward the point with the building, above mentioned, and rounding it at a convenient distance, anchor at pleasure, off the town, in 7 or 8 fathoms. Or, if only taking the harbour for shelter, you may a anchor anywhere within the lighthouse, in mid-channel. The holding-ground is oxcellent, and you are here secure from all winds.

On the inner bar, at high water, spring-tides are from 29 to 23 feet of water; on the outer bar, 5 fathoms; between the bars, 7 and 8 fathoms. The tide on full and change, flows at 10h., springs rise from 6 to 8 feet, according to the wind: neaps rise from 3 to 5 feet. The lighthouse, which is painted red and white, in vertical stripes, is very conspicuous, and shows a fixed light.

In order to proceed in the night, with a vessel of easy draught, bring the light to bear W. $\frac{1}{3}$ N. and steer for it until within about 50 fathoms off it, and then haul round it gradually, at about that distance; not going into less than 3 fathoms.

Pictou appears to me to be a harbour very easy of access, and very capacious. The roadstead is certainly one of the best in the world, the bottom clay and mud. There is anchorage under Pictou Island, but it is by no means to be recommanded. This island may be seen from a ship's deck 4 or b leagues off; a reef extends from its east end about a mile, and from its west end more than half-channel over. The three-fathom bank, marked in some charts, it is said, does not exist."—Nautical Magazine, 1839, p. 146.

From the lighthouse the distance to the Roaring Bull, a cliffy point inclosing a small lagoon, named Chance Harbour, is 4 miles in an easterly direction. From this point a reef runs out 300 fathoms. Two miles hence in the same direction is Lattle Harbour, a place fit only for boats, as, although of some extent, it is full of shoals. In the middle of the bay is Roy Island, off the north side of which there is a dangerous ledge of 9 feet; there is also a reef of sandstone, partly dry at low water, runping out from Colquhoun Point, half a mile to the eastward. As all these dangers have five fathoms close to them, vessels should be careful not to stand into less than 0 fathome along this part of the coast.

0 fathoms along this part of the coast. Merigoritish Harbour, east of Little Harbour, has 14 feet over the bar, and a depth sufficient for large vessels; but it is so intricate and difficult of access that a pilot is indispensable. On the eastern side of the harbour is the island of the same name, 84 miles long and 14 broad, rising to the height of about 150 feet, the custern end of which is united to the shore by a sand-bar. Hence to Cape George the coast runs E. by N., 27 miles, and is bold and free from danger, and contains no harbour for shipping. The country is covered with 'settlements, and the hills rising from the coast attain an elevation of 1100 feet at 2 or 3 miles from the shore side.

At 84 miles from Merigomiah is the village of Arisaig with its wooden pier, affording shelter to beats and shalloop in easterly winds, but none in winds from between north and west. East of this pier, about a mile is a remarkable rock named the Barn. Three miles farther eastward is 'Malignant Cove and Brook, where there is good landing for boats; this place will be known by the Sugar Loaf Hill in its rear, which is 680 feet above the sea.

Under Cape George there is good anchorage in 10 to 7 fathoms, abeltered from westerly winds. Here is a since of a fathor to the second of the

About 10 miles 8. by W. from Cape George is the entrance of the harbour of Antigonish, where small vessels load gypsum or plaster, of which there is abundance in the neighbourhood; but the harbour is so shoal, that they are obliged to complete this harbour run through many miles of fine country, and the population of the At Bonney Tales 4.

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At Pomquet Island, 6 miles south-eastward of Antigonish, ships of any size may load in safety. In sailing in, when from the northward, leave the island on the starrock is steep-to, and lies off the east end of the island; without it, at the distance of three-quarters of a mile, are some dangerous sunken ledges. After passing the rock, in with the island, where there is anchorage in 33 fightoms, at about half a mile from Wrom Demonstrate the theory of the start of the start of the start of the start the start of the st

From Pomquet Island to Cape Jack the distance is 71 miles; between are two small bays, named Great and Little Tracadie. Off Cape Jack there is a dangerous shoal at the distance of about three-quarters of a mile, which must be carefully avoided when running for the Gut of Canso; outside it the water soon deepens from 41 to 7 fathoms.

Between Cape Jack and the entrance of the Gut of Canso, there is a small harbour, named Havre Bouche, in which small vessels of 15 to 50 tons are occasionally built. Hence to the Gut of Canso the shore is lined by a ledge of rocks to a short dis-

The lighthouse on the western side of the entrance of the Gut of Canso, stands in lat. 45° 41' 49" N. and long. 61° 32' W.; is is painted white and stands 120 yards from at the shore. The light is fixed, at 115 feet above the level of the sea, and can be seen very useful when approaching the gut from George and Henry Island, and is thus is good anchorage with off-shore winds.

Between Cape George and the Gut of Canso, in fine weather, the winds draw from the southward and south-eastward; and from the Cape to Pictou from the southward. In general they are variable near the cape.

BRETON ISLAND, &c.

GUT OF CANED.-The Gut of Canso is the passage separating Breton Island from the coast of Nova Scotia. It is the best passage for vessels bound to and from Prince Edward's Island and other places, as it is shorter and has the advantages of anchorage in case of contrary winds and bad weather. Its length is about 5 leagues, and breadth about three-quarters of a mile. The east side is low with beaches, but the west side is mostly high and rocky, particularly that part named Cape Porcupine. The deepest water is on the western shore; but both shores are bold-to and sound, excepting three sunken rocks lying near the eastern shore, one of which lies about midway between the southern entrance of the gut and Ship Harbour, and nearly a cable's length from the eastern shore; the second lies near the western side of Gypsum or Plaster Cove, about half a cable's length from shore ; and the third about 100 fathoms without Bear's Island, the S.E. part of the gut: these rocks have 6 or 8 feet water on them. There are several places, hereafter described, which afford excellent anchorages, with a moderate depth, and out of the stream of the tide, which generally sets in from the southward, but very irregularly, being much influenced by the winds. After strong N.W. winds, which happen daily during the fall of the year, the water in the Gulf of St. Lawrence is rendered low, which causes the current to run northward through the gut, at the rate of 4 or 5 knots, and the contrary happens

Mill Creek is on the Nova Scotia side of the get, near its upper end, and here you may stop a tide, or lie wind-bound if it does not blow hard. Keep the creek open and anohor in 8 or 10 fathoms on the south side of the creek, within a cable's length of the steep rocks. It will be necessary to carry a hawser on shore to the rocks, to sarbour of Antis abundance in red to complete ore falling into pulation of the

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here you eek open of length rocks, to steady the ship, as the tide runs in eddies. Fresh water may be obtained at low water.

Nearly opposite Mill Creck is Balaches Font, off which at nearly a cable's length from shore there is a sunken rock, readily distinguishable by the tidal eddy. Half a mile southward from hence is Gypsum Cove, from which Cape Porcupine bears nearly S.W. Whon "sailing in keep near the middle, and let go your anchor in 10 fathoms. You will find sufficient room for awinging round, in 7 fathoms.

Ship Harbour, half-way down the gut on the eastern side, is a good harbour for vessele of 10 feet draught, and very useful to those bound northward, as it has a good outlet. If bound in from the southward, give the starboard side a berth of a cable's length (it being flat), and run in until you shut the north entrance of the Gut, and anchor in 4 or 5 fsthoms, soft bottom. You may obtain wood on the Breton side, and water on the opposite shore, at Venus Creek. The port side of this harbour is bolderet of than the starboard side; and has the deepest water. Without the harbour, one-third from the Breton side, you may anchor in 9, 10, to 18 fathoms, loose ground, in the strength of the tide.

Good anchorage may be had at Holland Cove, nearly opposite Ship Harbour, in 6 or 7 fathoms, muddy bottom, and out of the strength of the tide.

At the south end of the gut there is a fine bay, on the Breton side, named Inhabitant Bay, in which there is good anchorage and shelter. When sailing in, keep near Evaus Island to avoid Long Ledge, stretching off the north shore, after passing which, run up in mid-channel, keeping the lead constantly going. Tarbalton and Sea-Coal Harbours, the former on the east and the latter or the west side of the bay, each afford good sheltered anchorage in 4, 5, and 6 fathoms, on a muddy bottom, and are very convenient when N.W. winds prevail at the south entrance of the Gut. When bound southwards, if caught with a southerly wind, you will find good anchorage under Tarbaltof Head, where you may ride safely in the bay, in 5 or 6 fathoms.

The following directions have been given for the Gut and may still be found useful :--

"If from the northward, you may proceed through the Gut in safety, by keeping nearly in the mid-channel, there being no danger until you arrive off the south point named Eddy Point; * but, from this point extends a long spit of sand, with large round stones, which must be left on the starboard side, at the distance of half a mile from what may be seen above water. The race of the tide will serve to guide you from it.

Having passed the spit of Eddy Point, you may steer to the S.S.E. until abreast of an island which appears covered with green spruce-trees, having red bark. Hence you proceed straight out to sea.

. Be cautious of running in the direction of a dangerous steep rock, named the Cerberus Rock, with only 10 feet of water over it, and on which the sea breaks occasionally. This rock lies with the centre of Verte or Green Island in a line with Cape Hogan, or Iron Cape, on the Isle of Madame, at the distance of about 44 miles from Cape Argos, and about 34 miles from Cape Hogan. It may be cleared on the west side by bringing Eddy Point in one with Bear Island.

Near the end of the Gut, within a mile of Eddy Point, there is a middle ground of 7 to 12 fathoms, on which ships may stop a tide in "moderate weather. To the westward of this ground there is a depth of 18 fathoms, and to the eastward of, it 20 to 25 fathoms. With the wind inclining from the southward, steer in nearly West, and keep the lead going, until you shealen to 11 fathoms, when you may let go your anohor.

If wishing to anchor in Inhabitant Bay, bring the farm that is opposite to Bear Head open with Bear Head bearing W.S.W. This mark will lead you clear, and to the southward of the Long Ledge, and in the mid-channel between it and the steep rocks on the east or opposite shore: at the same time, take your soundings from the Long Ledge or north shore, all the way till you arrive at Flat Point; then keep in mid-channel between Flat Point and the island opposite, from the N.E. side of which runs off a spit or ledge of rocks, at the distance of a cable and a half's length; then

• On this point there is a square lighthouse, painted white, with a black diamond on the seaward side, which exhibits two fixed white lights, visible about 8 miles. port your helm, and run under Island Point, and come-to in 5 fathoms, muddy bottom. Up the River Trent are plenty of salmon, in the season, and there you may find wood and water.

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The leading mark to clear the steep rocks of Steep Point is, to bring the peuinsula in a line over the point of Tarbalton Head, bearing S. or S. $\frac{1}{2}$ E. until you open the island to the northward of Island Point; then haul up for the outer harbour, and come to in 10 or 12 fathoms, muddy bottom.

Those who are bound up the Gat of Canso, and taken short by a N. or N.W. wind, at the south end of the Gut, and who are desirous of good and safe anchorage in 10 to 12 fathoms of water, may come-to on the north side of Bear Island; but, should it blow hard, to a gale of wind, down the Gut, this anchorage is not altogether so secure as a careful master or pilot would wish. You must then loave the road of Bear Island, and sail round the south end of Bear Point, giving a berth to the spit that runs off it, of 3 cables' length, and haul round to the N.E. into Sea-Coal Bay, and come to anchor in 4, 5, or 6 fathoms, sand and muddy bottom.

The marks for anchoring are, Bear Head in a line over Flat Head, bearing W.S.W., or W. by S., and Carton Cliffs to bear N. by E. or N., in 5 or 6 fathoms, where you will have a good berth and lie sheltered from the W.N.W. and N. winds. Here is sufficient room to moor ten or twelve ships of the largest class.

Ships coming down the Gut of Canso, which may have passed Eddy Point, as far as Cape Argos, and caught with a S.E. to a S.S.W. wind, and cannot hold their own by beating to windward, may bear up and come to anchor in Tarbalton Bay, under Tarbalton Head, where they may ride safely in from 5, 0, or 7 fathoms of water, muddy bottom. The marks for anchoring in the bay are; to bring the peninsula point in a line over Tarbalton Head, bearing S. or S. 4 W.; or a point of land inland, a little up in the country, from Capo Argos shore, with pine-trees on it, over the pitch or point of Tarbalton Head; you are then sheltered by the rocks, or spit that rune from Tarbalton Head; in 4 to 5 and 6 fathoms of water, and will ride very safely on good holding-ground. But should the wind shift to the S.W. or N.W., you must take up your anchor, and beat out of the bay into Chedabucto Bay, and proceed on your beating to windward into Chedabucto Bay, you may come to an anchor in Eddy Cove, bringing the low part of Eddy Point to bear S.S.E. or S. by E., in 5, 6, or 7 bank into deep water, from 15 to 20 fathoms."

EXAMP is a large island of a triangular form. Its length is about 100 miles, and its breadth about 85 miles. In the centre of the island there is a large lake, named the Bras' d'Or, which penetrates a distance of nearly 60 miles, and occupies a large portion of its area; by this lake the island is nearly divided into two parts. The entrance to the Bras d'Or is formed into two passages, named the Great and Little Entrance, by the long narrow island of Boulardrie; the latter channel is impracticable for ships, and is seldom used even by boats. The shores of this lake or guif contain numerous bays and small harbours, in which timber is shipped for Great largest contains many small islands, and terminates at the isthmue of St. Peter, which is about 900 yards wide, and separates the waters of Bras d'Or from those of the Atlantie at the Bay of St. Peter.

The island is generally mountainous, and the high land appears in many places close to the coast, and on the shores of the Bras d'Or. Cape Ensumé, 20 miles north of St. Anne's Harbour, is eaid to be 1800 feet above the level of the sea.

In that part of the island which is south-east of the Bras d'Or granite prevails. In all parts of the island are found mice-slate, clay-slate, and sienite; transition linestone, greywacke, gypsum and coal, are very generally distributed. The principal coal field liss between Miray Bay and Sydney Harbour, and contains the Sydney and Bridgeport mines, from which increasing quantities are annually shipped. The N.W. coast of Breton Island, from Cape North to Cape Linzee, is, in the inland

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s, in the inland y towards the ou may safely f Cape Linzee, must be taken to avoid the Jndique Bank and Shoals, the former of which has $4\frac{1}{2}$ fathoms over it, and lies about 6 miles southward of Henry Island, at 3 miles from the shore; the Shoals are situated nearly 3 miles further to the southward, and extend $1\frac{1}{2}$ miles from the land. The mark for clearing all these dangers is the high land of Cape Porcupine just open, and bearing S. $\frac{1}{2}$ E. of the east shore of the Gut.

The eastern coast of the island is commonly made by navigators bound from Europe to Nova Scotia; its appearance on the sea shore, and also to some distance up the country, is barren and rocky; and the tops of the hills, being much alike, have nothing remarkable to distinguish, them. The lighthouses and town of Louisbourg serve, however, to point out that part of the island on which they stand. 'A lighthouse, painted white, now stands on the east point of Scatari Island, and exhibits a revolving light, visible one minute and invisible half a minute. A lighthouse, showing a fixed light 160 feet above the sea, stands on Flat Island, upon the eastern side of the entrance to Sydney, and may be easily distinguished from that on Scatari Island, by its being painted vertically red and white. Louisbourg Lighthouse stands on the other lighthouses, and to render it conspicuous when the back land is covered with snow, it is built square, painted white, with vertical black stripes on either side. The coast continues rocky on the shore, with a few banks of red earth, which appear less barren.

The N.E. coast of Breton Island, between Scatari Island and Cape Dauphin, is low; but, from Cape Dauphin to Cape Ensume, it is high. Between Scatari Island and the entrance to Port St. Anne, a vessel may stand in-shore, to 15, 10, and 7 fathoms in clear water with gradual soundings.

Blancherotts, or White Cliff, is situated on the sonth-eastern coast of the island, and is a remarkable cliff of whitish earth in lat. 45° 39', and long. 60° 20'. At amiles to the westward of it is a small woody island, at upwards of a mile from shore, and off the little harbour of Esprit. The land hence to Madame Island is generally low, and presents several banks of bright red earth, with beaches between them. Albion Cliff, on the south side of Madame, is rocky, remarkably high, and precipitous. Of the interior of Breton Island, like Newfoundland, but little is known.

When approaching the island, from any direction, too much caution cannot be exercised on account of the currents setting alternately about Ospe North according to the winds at sea, both from the westward and eastward.

GAPE NORTH is a lofty promontory at the N.E. extremity of Breton Island, in lat 47° g'40°, and long. 60° 25′ 28°. The entrance into the Gulf of St. Lawrence is formed by this cape and Cape Ray, and the latter bears from the former E.N.E. \pm E., distant 184 leagues: the depth of water between, excepting near the Island of St. Paul, is generally above 200 fathoms.

From Cape North to Ashpee Harbour the course and distance are S.W. $\frac{1}{2}$ S. 6 miles. In this harbour vessels may find shelter, and good anchorage may be obtained behind the island, where boats can land, and water and provisions be obtained. For want of knowledge of such an establishment, many have been obliged to endure both hunger and fatigue unrelieved.

At two miles to the southward of Ashpee Harbour is situated Araleow Cove, from which the coast runs 2 miles to the castward, and then trends S.S.W., 11 miles, to Naganish Island, between which and Cape Ensumé a good bay is formed, full 24 miles deep, with 4 to 9 fathoms in it. Another deep bay lies on the south side of Cape Ensumé, nearly as large as the former, with 7 to 10 fathoms in it : but they are both open to easterly winds. From Cape Ensumé to Black Point the course and distance are S.W. by S. 20 miles. Black Point forms the western, and Siboux Islands the eastern side of the entrance to St. Anne's Harbour. ST. ANNE'S HARBOUR.—This harbour was named by the French, when in/

ST. ANNE'S HARBOUR.—This harbour was named by the French, when in their possession, Port Dauphin, and is a very safe and spacious harbour. It has but a narrow entrance, and carries of fathoms at low water, until you join the bach. He when in mid-shamed you will have from 5 to 10 fathoms, and in the harbour from 5 to 10 fathoms, middly bottom. On the north side the land is very high, and ships-of-war may lie so gear to the ahore that a water hose may reach the fresh water, and a ship may be found in one day, from a cascade which runs from the top of the rock. The Guerness and Jersey map dry their fish on this beach.

Mr. Backhouse has given the following directions for St. Anne's Harbour :- " After

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you have passed the Siboux or Hertford Iales, on the east side of the entrance, keep the south shore on board, if the wind be to the S.E.; and as you approach Passage Point, bring Cape Ensume, or Cape Smoke, which lies to the northward, nearly on with Black-Point; steer with these marks in one, until you are nearly abreast of Passage spit of St. Apne's Flat, and the narrowest part of the obannel. Now keep a small hummock up in the country, nearest to the shelving high land to the westward of it, hut, or fishing-stage crected on the beach: this will lead in the best water, until you enter the elbow part of the beach. When advanced thus far, keep the opening open opening looks like two steep oliffs, with the sky appearance up the S.W. arm. This lead you between the beach and the south short how and vill cables' length. Having passed this spit, come to anolor in eithers tide of the bacut 3 in from 5 to 10 fathoms, muddy bottom, and shifted of the barbour,

in from 5 to 10 fathoms, muddy bottom, and sheltered from all winds." LA BRAS D'OR.—There are two entrances to this lake or inlet, the Northern, or Great Entrance, and the Southern, or Little Entrance; they were thus described places he refere to are generally unknown, and cannot be applied to any publication Southern to any provide the southern to any publication

Sailing Directions for the Grand Bras d'Or Entrance .- " Ships from the southward must give Point le Conie a berth of about 2 miles, and steer from thence for the eastern end of the inside of Bird Island, until you bring M'Kenzie Point and Carey's Beach in one. Make for the Black Rock Point until you have Meesrs. Duffue's Store just opon of Point Noir ; then steer for Goeseberry Beach until you bring a clearing on Duncan's Head over M'Kenziel Point. It is to be observed, that ships coming in with the tide of flood must keep Point Noir well aboard, to avoid the eddy and whirlpools on the north aide of the Gut, which has various settings. You must then steer for Point Jane, to keep the fair stream of tide as far as the Round Cove, where there is fair anothorage in 7 or 8 fathoms, good holding-ground. When abreast of the Round Cove, steer over for Duncan's Head; and when abreast of this head, steer for Long Beach, until you bring a tall pine-tree on the Upper Seal Island in one with a notion of valley in the mountain. You will then make for the point of the Upper Seal Island, which will carry you clear of the shoals on the islands, as also the South Sheal, or Middle Ground. The marks for this sheal are a white rock in the bank for the eastern end, and a white birch-tree for the western end. When abreast of the western end of this shoal you may keep the middle, there being no difficulty until you come to Red Head. If bound to Kent Harbour, after doubling the Red Head, steer for a remarkable red bank, covered with small bushes, until you bring Mr. Duffus's house entirely open of the beach which is on the island. There is a depth of from 4 to 5 fathoms in this harbour, and good holding-ground.

Directions for that arm of the Lake named St. Patrick's Channel and up to Whookamagh.—From Red Head you will steer well over for the Duke of Kent's Island, to avoid a mud-shoal which runs off from M'Kay's Point. When abreast of the western lsland. Then steer for Cranberry Head so as to clear a shoal lying off from Wassaback a shoal ying on the south side of the channel; when abreast of the Westers for Green Beach, observing to keep Baddook River shut in until you are well up with opening of the Narrows; you may then asil through the Narrows, keeping the middle (beach), keeping the south shore until abreast of the Platter Cliffs; you are then clear of al, and in the Whookamagh Lake.

(coaco), seeing the court shore that above the rest of the rest of the second s

westward of the same islands in 7 fathoms. There is no other place of anchorage from this to the Big Harbour, where you may ride in 7 or 8 fathoms; from thence you may anchor at any time.

Setting of the Tide in Grand Bras d'Or.—The first quarter-flood sets from the northward, directly over the shoal, last quarter W.S.W., being directly through the channel, and meeting with the tide coming over the shoal, sets toward the Black Point, which eccasions it to shoot across the Gut, making a number of whilpools and strongeddies on each side of the channel, which slacks two or three times during the tide. The first quarter ebb sets over the shoal to the northward; last quarter directly through the ohannel. N.B.—The tide of ebb is the fairest setting-tide. The tide runs in until half ebb, and out until half-flood, in regular tides; but the winds make a great altration; N.E. winds make high tides, and S.W. neaping then; also tides running out with S.W. winds until high water, and in until low water with N.E. winds. Tides rise four feet, unless affected by winds. High water ten minutes past eight o'clock, full and change. Bearings by compass.

Observations.—Measure, Duffue's store is a fishing establishment. Mr. Duffus's house is on Kent Island, formerly Mutton Island. The aforeaaid Thomas Kelly piloted the ship Pitt, of St. Kitt's, burthen nearly 400 tons, laden with timber, and drawing about 18 feet of water, safely through the foregoing described channel from Kent Harbour."

SYDNEY HARBOUR, formerly named Spanish River, the entrance to which lies 4 leagues S.E. of that of St Anne's, is an excellent harbour, having a safe and secure entrance, with soundings, regular from ses, in 5 fathoms. In going in, give the two points of the entrance a berth of two or three cables length, approaching no nearer than 6 or 5 fathoms. The soundings are regular to each shore to 5 and 4 fathoms. In the inner part of the entrance, Beach Point and Ledge, on the south side, are steep-to; but Sydney Flats, on the opposite side, are regular to 4 fathoms. When past the Beach Point, you may run up the River Dartmouth to the S.W., and come to anchor in any depth you please, in from 5 to 10 fathoms, fine muddy bottom.

This harbour is capable of containing the whole navy of Great Britain. On Flat Point without the east side of the entrance is the lighthouse before alluded to, in lat. $46^{\circ} 16' 21''$, and long: $60^{\circ} 10' 12''$. It is an octagonal tower of wood, 51 feet in height, painted vertically red and white. It exhibits a brilliant fixed light, at 70 feet above the level of the sea, which may be seen in clear weather at 5 leagues' distance. Fish' of various kinds, cod, haddoor, &c., are caught on the coast in great abundance. The tide in the harbour flowmat 9h., and rises 6 feet.

South-east of Sydney Harbour are Indian Bay and Windham River, both places of anchorage, and fit for small vessels to run into, although little frequented at present; southward of these is Morien, or Cow Bay, at the northern point of which is Flint Island; there is a passage between this island and the main, with 14 fathoms water, but this should be adopted with the greatest caution, on account of the numerous rocks under water that are scattered about. This bay is open to the north-eastward, and its head is encumbered with an extensive shallow flat, which dries at low water.

Miray Bay is farther to the southward, its entrance being between Cape Morien and the Island of Scatari; the bay is wide, and runs in 3 lesgues, branching off at its upper part into two rivers; there is deep water in it, from 20 to 6 fathoms, and clear from dangere, but it affords no shelter for shipping. SCATARI ISLAND lies in about the lat. of 46° N.; its length from E. to W. is nearly

SUATARI ISLAND lies in about the lat. of 46° N.; its length from E. to W. is nearly 3 leagues, and its breadth about one league; there is a channel between it and Cape Breton leading into Miray Bay, but it is too hazardous for strangers, and frequented only by these coasters who are well acquainted with its dangers.

Only by those consters who are well acquanted with its dangers. On the east point of this island, which is also the easternmost land of Breton Island, is a lighthouse, in lat. 46° 2' 18', and long. 59° 40'. The tower is painted white, and exhibits a revolving light, at about 90 feet above the sea; visible one minute, and invisible half a minute, alternately. A boat is kept to render assistance to vessels in distress, and a gun to answer signals, when requisite. The light should never be brought to bear eastward of N.N.E. nor to the southward of S.S.W., nor. should it be approached nearer than 14 miles.

should it be approached nearer than 14 miles. As vessels from Europe frequently first make the land about Scatari Island, the revolving light on the eastern point will be found of great service. It appears, by the late survey of the St. Peter's Bank, that in lat. 46° N. the western edge of the bank,

e entrance, keep pproach Passage d, nearly on with reast of Passage which begins the ow keep a small westward of it, wer the fishingwater, until you to opening open 3.W. arm. This them, and will ough 9 and 10 e S.W. about 2 of the harbour,

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in 40 fathoms, pebbles and broken shells, lies E.S.E., or (East, true,) 111 miles from

LOUISBOURG HABBOUR, situated on the S.E. side of Cape Breton Island, to the westward of Scatari Island, is very easy of access and egress. In availing yourgoing in. The east part of the harbour is the safest. The inhabitants consist of a few fishermen only. Water is plentiful, but wood is scarce. The Nag's Head Rock lies nearly one-third from the lighthouse point, and has no more than 3 feet on it at

There is a lighthouse on the eastern side of the entrance to the harbour at 60 fathoms in-shore. It stands on the site of the ald French lighthouse, (which was succeeded by a beacon,) and shows a fixed light, visible at sea, from off Cape Portland building,) is painted white, with vertical black stripes on either side, in order to distinguish it from other lighthouses, and to render it conspicuous when the back land The overed with snow.

The following remarks were written some years kince, and may still be of service to vescels bound to Louisbourg :--When coming from the eastward, they should bring the light to bear W. by N., or more northerly, before they run for it; and from westwhich lie three-quarters of a mile S. by W. 4 W. from the light. When in the entrance of the harbour, which is nearly half a mile wide, with the light bearing N.N.E. two or three cables' distance, steer W.N.W. for half a mile, to avoid the The N.E. arm of the harbour affords the starboard side, bearing. W by N: from the light bears about S.S.W. 4 W. from the revolving light on Scatari Island.

GABARUS BAY.—From the entrance of Louisbourg to Guyon or Portland Isle, the course is S.W. by W., and the distance more than 3 leagues. Between lies a spacious bay, named Gabarus Bay, having a depth of from 30 to 7 fathoms. Off islets and rocks. About 4 leagues to the westward of Gabarus Bay is the Forked Harbour, a narrow winding inlet, which small vessels may run into, and lie landlocked, and 5 miles south-westward of this is the remarkable white cliff, already Hinchinbroke and the Isle of Madame.

ARACHAT, OR AROCHETTE .- Arachat Harbour, on the S.W. side of the Isle of Madame, has two entrances : the N.W. one, being very narrow, ought never to be attempted without a leading wind, as there is not room for a large ship to swing to her anchors, should she be taken aback. When going in, give the ledge extending westward frem Seymour or Jerseyman Island a good berth, not approaching it nearer than 8 fathoms, and then keep as near as possible in mid-channel. To enter by the S.E. passage, steer for Point Marache, rounding it in 8 fathoms, at about two cables' length off; keep that shore on board, at nearly the same distance and depth of water, until the church bears North; you will then see a small bouse (the Dead House) on the top of the hill behind the church ; bring that on with the east end of the church, and then steer in that direction ; you will thus pass mid-way to the east.". Head Shoal. Proceed with this mark on, until a red house on Fiddle-Head Point. comes on with the dark rocky extreme of the point, bearing E. + S. ; you will then be to the northward of the Twelve-feet Shoal, and may haul up to the westward, where you will find excellent anchorage on soft mud, opposite to the low sandy beach on the middle of Seymour Island, in 10 fathoms. When making for Point Marsche care is necessary to avoid the Cerberus, already described, and a shoal with 3 fathoms over it, lying about (of a mile S.W. by W. from the said point. On Point Marache, the eastern side of the entrance to Arachat Harbour, there is a

square white building which shows a fixed light at 84 feet above the sea, visible about 10 miles. From it Cranberry Lighthouse bears 8.8° E.; Winging Point 8.8° W.; Ragged Head, north shore of Chedabuoto Bay, N. 79° W.; and Little Araohat m.

The general appearance of the coasts of the Gut of Canso has been already described. On proceeding towards this strait from the Atlantic it should be reoas 19' two J Am pas are You from The

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marked that the Isles of Canso, on the Nova Sectian side, are surrounded with many low white rocks and breakers. The south shore of Chedabucto Bay is iron-bound and steep to; its north shore is of red cliffs and beaches. Of the Gut of Canso, from the southern entrance northward, the western shore, throughout, is high, rocky, and steep; the eastern shore low, with beaches. From the north end of the gut, the eastern shore to Jestico, or Port Hood, is distinguished by high, rocky, red offis. The opposite shore has several remarkable oliffs of gypsum, or plaster, which appear extremely white. Cape George, the western extremity of George's Bay, is iron-bound and very high; its summit being estimated to be 600 feet above the level of the ses. PORT HOOD, situated on the western side of Breton Island, is a safe harbour for

FORT HOOD, situated on the western side of Breton Island, is a safe harbour for frigates with any wind, but particularly from the S.W. to S.S.E. round by the northward; the anohorage is in 4 to 5 fathoms, mud and sandy bottom: here you may get both wood and water. The leading mark going in is, Cape Linzee on with the highest sand-hills that are on the N.N.E. side of the beach, bearing N. by E. or N.N.E.: these kept in a line will lead you clear of Spit-head, in 4 to 6 fathoms. On the opposite shore is a long and broad flat, stretching from the shore three-quarters of a mile, named the Dean, to which you chould not approach nearer than in 4 fathoms.

At 6 miles S. by W. from Henry Island, the outermost of the islands forming Port Hood, and 18 miles E. by S. $\frac{1}{2}$ S. from Cape George, is a small shoal of 4 fathoms, named the Junique Bank, distant from the shore of Breton Island about 2 $\frac{1}{2}$ miles. It is about three-quarters of a mile in extent, and has 8 to 7 fathoms all round it. Within this shoal, to the southward, are some reefs, which join the shore, from which the outermost part is distant 1 $\frac{1}{2}$ miles; they are named the Judique Shoals, and have 5 to 6 fathoms just off their outer edge. To go clear of all these dangers, bring the high land of Cape Poroupine, on the west side of the Gut of Canso, open of the eastern shore of the Gut, bearing S. $\frac{1}{2}$ E.

At 4 miles E: by N. from Cape Linzee is the Mabou River, which is wide at the entrance and continues so fully 4 miles, where two etreams fall into it. On the eastern side of this river stands the village of the same name, from which to Cape Mabou the bearing and distance are N.E. 6 miles. At 4 leagues N.E. by E. from Cape Mabou lies Sea Wolves Island, which is about 14 miles in length, and bold-to, and lies 2 miles from the shore, having 10 fathoms water between. At 7 miles, E.N.E., from Sea Wolves Island is the western point of Salmon River, and at 9 miles N.E. from Salmon River is Cape Beaque. At 3 miles to the north-eastward of the cape is the entrance to an inlet, which runs in south-westward, 4 miles, near the head of which is a settlement; its entrance is about half a mile wide, on the eastern side of the distance are N.E. by E. S1 miles, and from Cape St. Lawrence the bearing and distance are N.E. by E. S1 miles. Between these last two capes the land curves in to the southward: near the head of this bight are 12 fathome water.

CHEDABUCTO BAT. Although Chedabucto Bay is not in the limits of this section, yet, as it is necessarily traversed by vessels sailing through the Gut of Canso, it will not be considered out of place to make a few remarks on it here,

The bay is wide and spacious, and bold to on both chores and free from danger. On its southern aide, which is high and nearly straight, are Fox Island and Grow Harbour. Fox Island is small and lies near the chore.

At the southern entrance of the bay, a lighthouse stands on Oranberry Island, castward of Cape Canso. It is an octagonal tower, 60 feet high, standing in lat. 45° 19' 54", and long. 50° 58' 26"; it is painted red and white horizontally, and exhibits two fixed lights, one above the other.

For Island Anchorage is one of the greatest mackerel fichery stations in North America during the months of September and October. When easing in you trust pase to the westward of Fox Island, giving it a berth of a quarter of a mile as there are rocks about it both above and under water, with 3 and 4 fathoms does to them. You may anchor in from 4 to 10 fathoms, with the west and of the island bearing from E.N.E. to N.N.E., keeping about midway between the island and the main. The water shoals gradually to the bar, which extends from the island to the shore, and has not more than 6 or 7 feet on its deepest part, drying in one place about onethird of the distance from the island to the main ; with northerly and with westerly winds, the fishing-vessels ride to the eastward of it in from 2 to 4 fathoms, and shift to the westward with easterly winds.

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To the westward what easterly whats. Crow Harbour, on the south side of Chedabucto Bay, is capable of containing ships-of war of the fifth-rate, merchant vessels, &c. The bottom is good, and the mark for entering it is to keep the beacon, on the south side of the harbour, in a line with a remarkable fine tree upon the high land, which will lead you clear of the Corbyn Rocks, and also of Book Island Rock, which lies 25 fathoms to the N.W.

Milford Haven, or the Harbour of Guisborough, at the head of the bay, is impeded by a bar, but a vessel of moderate size may pass over it. Within the bar vessels lie. in perfect security; the tide, however, sets in and out with great rapidity. The town is, at present, a place of little trade; but it is protected by a battery. A small light

From Manchester round the north shore of Chedabucto Bay, the shores are full of settlements. On the northern side of Chedabucto Bay you will see several red oliffs ; this shore is sandy, with regular soundings in the middle of the bay: the water is deep, from 25 to 35 fathoma. TIDES.—The tide has great strength in the Gut of Canso, running in the nar-

rowest part, at Cape Porcupine, at a rate of seldom fees than 4 or 5 miles an hour. Here it flows, on the days of full and change, at 91 h.

Along shore past Havre Bouche and Antigonish, the tide sets toward Cape George, and, rounding that cape, proceeds towards the N.W. The tides are materially affected by the winds; and it has been found that, st

times, the stream in the Gut of Canso has continued to run one way for many suc-

PRINCE EDWARD'S ISLAND.

Thus island is a distinct government, though subordinate to the British com-This island is a distinct government, though subordinate to the British com-mander-in-chief in North America. It is well settled, and possesses a good soil, fit for all general purposes. The island is exempt from fog, while the surrounding with it. The climate is generally healthy and temperate, and not subject to the sudden changes of weather experienced in England. The winter here sets in about the middle of December and continues until America during with the surrounder and the surrounder and the surrounder the surrounder and the surrounder the surrounder of t the middle of December, and continues until April; during which period it is colder shan in England; generally a steady frost, with frequent snow-falls, but not so severe as to prevent the exertions of the inhabitants in their various employments. The weather is generally serene, and the aky clear. In April, the ice breaks up, the The weather is generally serene, and the say clear. In April, the los breaks up, the spring opens, the trees blossom, and vegetation is in great forwardness. In May, the face of the country presents a delightful aspect. Vegetation is so exceedingly quick, that, in July, pease, are gathered which were sown in the preceding month. The country is generally level, or in rising elopes, and abounds with springs of fine The greater part of the inhabitante are employed in farming and fishing. Charlotte Town, situated between York and Hillsborough Rivers, on the southern side of the

The coast forms numerous harbours, many of which are, however, fit for small these soly. The principal loading ports are, on the eastern side, Cardigan Bay, or the Three Rivers, and Murray Harbour; on the S.E., Hillsbörough Bay and River; Bedeque Bay on the southern side; Richmond Bay and Holland Harbour on the

SCOTTERED COAST. CAPE EAST, composed of red sandstone, is a cliff from 50 to 60 feet high. From the point a rest runs off nearly a mile to 5 fathoms, and two-thirds of that distance to 3 fathoms. Great saution must be exercised in approaching this reef, as the flood-tide sets strongly over it from the northward, and from thence to the south-westward, at the rate of 23 knots. Great ripplings are frequently caused by this tide off the point; and a large ship at night, or in dark weather, should not approach the point nearer than 20 fathoms. The sea is very

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fathoms, cised in ard, and ings are in dark is very heavy off this point in N.E. gales. To the southward of the point, between it and the output of East Lake, there is good riding with northerly winds.

To the southward of Cape East there is an extensive bank of 5 to 7 fathoms, extending in a N.N.E. and S.S.W. direction, about 54 miles. It is named the Milne Bank, and is about 54 miles long, with very irregular soundings; towards its southern end, and close to the outer edge, there is a shallower part of 44 fathoms, extending for a distance of 14 miles, which bears between S. and S. by E. 44 to 54 miles from the cape. The mark for the northern end of this shallow ridge is Souris and Dean Points in one, bearing W. by N., and for the southern end, Swanton and Chepstow Points, W.N.W. $\frac{1}{2}$ W.; these marks lead over the ends of the bank in 5 fathoms, but are so distant that they cannot be seen unless it is very fine weather. All round the bank there are 10 to 15 fathoms. It has steep edges, and the sea breaks heavily in strong N.E. gales.

CARDIGAN BAY, or the Three Rivers, lies between Boughton Island and Panmure Island; it is the common entrance to three rivers; namely, Cardigan River, Brudenell River, and Montague River. In the former there are from 7 to 3 fathoms of water, and in the others from 4 to 2 fathoms. George Town stands on a peninsula between the Rivers Brudenell and Cardigan. In these places many large ships have loaded with timber. There is anchorage without, in Cardigan Bay, in from 10 to 6 fathoms, where a pilot may be obtained.

Fisherman's Bank is composed of sandstone, thinly covered with stones, gravel, and broken shells. It is 3 miles long from east to west, by 11 miles broad, within the depth of 10 fathorns; but the shallow central part, of from 4 to 5 fathoms at low water, covers a struct half that space. The least water, 4 fathoms, bears from Cape Bear, the new read, E.S.E. 1 E. 71 miles; and there is another patch with 5 fathoms three one of a mile father eastward. It has deep water all round it. In a gale, this bank should be avoided by large ships.

MURRAY HARBOUR lies close to the north-westward of Bear Cape; and the entrance is narrow and shoal, difficult of access, and with not more than 10 feet of water. Vessels from the eastward, and bound to Murray Harbour, must avoid approaching too, near to Bear Cape, as a ridge of rocks extends out a full mile from it.

The bar of Murray Harbour is exceedingly dangerous, having only 10 feet at low water; and easterly winds send in such a heavy sea, that breakers extend all across the bay, upwards of 2 miles. The channel in is buoyed and beaconed, but a pilot is at all times necessary to ensure safety. From Bear Cape to the Wood Islands, a distance of 13 miles, the coast is all clear; and near the shore is anchorage in 8 to 4 fathoms.

About a mile S.W. by W. from the Wood Islands are the Indian Rocks, some very dangerous rocks, extending 14 miles from the shore. There is almost always a rippling on those parts which dry, by which their position is generally indicated. Spring-tides run 3 knots near these rocks, and rise 6 feet; and it is high water, full and obange, at 9h. 45m. At night come no nearer their S.E. part than 15 fathoms, as there are 10 fathoms within a quarter of a mile of their southern edge. There is a narrow channel between these rocks and the shore, but of no use to ahipping.

The Riffeman Rocks lie 44 miles to the westward of Indian Rocks, and are one of the greatest dangers in the strait. There are only 5 feet water on the shoalest part, and from its outer point, in 8 fathoms, Prim Point Light bears N.N.W. § W., 8 miles. This shoal should always be approached with great care, particularly in foggy weather, as the soundings are very irregular, and there are 16 fathoms within half a mile of it, with a less depth farther out. At night, Prim Light should not be brought to the westward of N.N.W.

The Pinette River, 4 miles eastward of Prim Point, has a rocky dangerous bar, and is fit only for small schooners: the bar is nearly a mile without the entrance, and the shoals run off a mile farther. These shoals are dangerous, and should not be approached nearer than 6 fathoms at low water. At Pinette it is high water, full and change, at 10h.; springs rise 8 feet, neare 5 feet. There are only 2 feet water on the bar at low water.

HILLEBOROUGH BAY.-Prim Point is low, with cliffs 10 to 15 feet high. The lighthouse shows a fixed light, 68 feet above the level of the sea at high water, and may be seen 4 or 5 leagues from the deck; and is of great service to vessels coming from the eastward, in guiding them clear of the Pinette and Riffeman Shoals, and enabling them to enter Hillsborough Bay in the night. The lighthouse stands 100: yards within the point. The west extreme of St. Peters, Island bears from it N.W. W., 74 miles; and the west end of Governor's Island N. 3 E., 5 miles.

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A reef of a forked shape runs out to the westward from Point Prim, and has upon it uneven soundings. Its north point, is 3 fathoms, bears N.W. by W. $\frac{1}{4}$ W., depth of 5 fathoms it extends out nearly 3 miles. The marks to clear the extreme end in the latter depth are the Block-house Point and the square tower of the Presbytarian church at Charlotte Town in one, bearing N. by E. $\frac{1}{4}$ E. As these objects cannot it, and the bearing of the lighthouse, in 3, 4, or 5 fathoms, according to your vessel's Section 4 ways be seen, you must attend to the lead, and you may safely round the reef by draught of water.

St. Peter's Island, on the N.W. side of Hillsborough Bay, is about 3 miles in ciroumference. You may approach the south side of the island within 14 miles, but there are extensive shoals running off to the eastward from the island, in an E. by N. direction, 8 miles; this spit dries 2 miles from the island. Off the and of the head there is a beacon-buoy. The western side of the channel trends north, 24 Fown Harbour. About half a mile 8. by W. 4 W. of Block-house Point lies the Block-house Point in one, just clears its east side.

Block-house Point in one, just clears its east side. Governor Island lies E. by N., 44 miles from St. Peter's Island, and S. by E. 4 E., 4 miles from Block-house Point. It is low, partly wooded, and surrounded by shoals to some distance off. This island, lying near the centre of the bay, forms, with its shoals, the eastern side of the entrance of the channel to Charlotte Town Harbour, as well as the western side of the channel leading to Qrwell and Pownell Bays. The shoals the eastern is the to the S.W. from the island, and have some shallow patches nearly 2 miles, to 5 fathoms. The Fitzroy buoy lies in 4 fathoms, a cable's length Presbyterian Church in one N. by E. 4 E. You may pass on either side of this 12 feet, lies 2 miles N. by W. from the N.W. part of Governor Island, and must be passed to the westward. Huntly Rock, of 12 feet, lies S. by W. 4 W., 14 milos from the west end of the island, and must be passed on the west side when going to Hulther Town.

Hillsborough Bay contains within it the principal harbour and capital town. Charlotte Town is situated on the northern bank of the Hillsborough, a short distance within its entrance, and at the point where the deep water approaches nearest to the shore. It is high water here on the days of full and change at 10h. 45m., generally lie off the wharves of the town, where the channel is nearly 10 fathoms deep, and 280 fathoms wide.

generally lie off the wharves of the town, where the offaulted is hearly at indicate deep, and 280 fathoms wide. A pilot should be procured by strangers bound to Charlotte Town, but if one found N.W. of Governor Island, until one be obtained. Approaching from the westfound N.W. of Governor Island, until one be obtained. Approaching from the westto touch, bearing E. by N., and run from them until the Presbyterian Church comes in one with Block-house Point, bearing N. by E. J. E., when you must steer, N.E. by Government-house and Battery Point come in one, bearing N. J. E.; these latter bour. If the leading marks cannot be made out, follow the southern and eastern edgeof the St. Peter's Shouls is 5 fathoms up to the Nuche Buow then inchore

of the St. Peter's Sheals is 5 fathoms up to the Spithead Buoy, then anchor. When approaching from the eastward with a fair wind, the Rifeman Reef must be avoided by attending to the soundings in the chart, and by not bringing the light on Prim. Point to bear to the westward of N.N.W. A large ship should round Prim Reef by the lead in 10 fathoms; a smaller vessel may go nearer with attention to the soundings. When the light bears to the southward of E. by S. # S., (the vessel heing

PRINCE EDWARD'S ISLAND.

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must be light on and Prim on to the sel being in not less than the low-water depth of 10 fathoms.) or when the porth side of Prim Island bears E. by S. the most northern point of the reef will be past, and the course across the bay must be North or N. $\frac{1}{2}$ E. at night or in thick weather; the object being to strike soundings on the southern edge of the bank off St. Peter's Island, and then to follow it to the north-eastward in 5 fathoms, until about 2 miles within the Fitzroy Rock, where there is accellent anchorage off Governor Island, and where the vessel had better wait for daylight. In clear weather, your course from the outen and of Prim Reef, in 10 fathoms, will be N. by E. $\frac{1}{2}$ E., about 5 miles. To run farther up, a pilot is indispensable.

The bearing and distance from St. Peter's Island to Cape Traverse are N.W. 1 W. 20 miles. The shoal water extends off from the land a considerable distance all along this part of the coast, but the lead affords sufficient warning, and in 5 fathoms you will be full half a mile off the outer edge. Tryon River is situated about 54 miles to the eastward of Cape Traverse, and small schooners enter it with the assistance of the tide, which rises from 6 to 8 feet. The Tryon Sheals dry out 11 miles off shore, between Tryon and Brockelsby Rivers, and their S.W. extreme, instree fathoms, bears S. by W. 1 W., distant fully 2 miles from Tryon Head, the nearest part of the whore. To clear the S.W. point of the sheals in 5 fathoms, at the distance of a long half mile, an excellent leading mark is Carlton Hgad and Cape Traverse in one, bearing N.N.W W. These sheals may be asfely apprecibed to any convenient depth, when farther eastward; yet as the tides meas off them, and cause variations in the strength and set of the streams, the lead should never be neglected when in their vicinity. The ebb from Bay Vorte frequently sets over towards these shouls, so that a vessel standing along the land with a sound southerly wind will often find herself droping to leaward towards them much faster than her usual amount of leaway would lead her to expect-

The bearing and distance from Cape Traverse to Carleton Head are N.N.W. 1 W. 3 miles, and from thence to Sea Cow Head N.N.W. 1 W. 8 miles. Of these headlands the sheal water does not extand beyond 800 fathoms; but in the bays its 8-fathom edge is sometimes twice that distance from the shore; and as the line of 5 fathoms is sometimes quite close to it, the general rule for vessels at night should be not to approach nearer than the depth of 7 fathoms.

BEDEQUE HARBOUR is situated to the northward of Sea Cow Head, and rune in to the castward between Indian Head and Phelan Point. Indian Point, the south point of entrance, is faced by sandstone cliffs 25 feet high. As the entrance to this, harbour is narrow and intricate, a pilot is requisite; although when Inside, there is sufficient water for the largest ships. Until a pilot can be obtained, a vessel should' apchor in the roadstead outside, where there is hafe anchorage during the summer months in 22 feet at low water, sand and clay bottom, although open to S.W. winds. In approaching from the eastward with an enterly wind, Sea Cow Head may be safely rounded at the distance of two or three cables, and Graham Head may be passed at twice that distance. It is high water in Bedeque Harbour at 10h., the rise being 7 feet in spring-tides and 5 feet in neap-tides.

From Sea Cow Head to Cape Egmont the bearing and distance are N.W. 4 W. 144 miles; between them is a bank of 34 to 44 fathoms, which extends fully 3 miles from the shore; when about midway between the politics, you may eafely keep along its southern edge in 5 or 6 fathoms. A rock, 30 feet high, named the Dutchman, will be seen about a mile to the northward of Cape Egmont, at a cable's length from the shore. Cliffs of mandatone, 50 feet high, render Cape Egmont a remarkable headland : the cape is bold to the southward; but there is shallow rocky ground, half a mile off shore, to the westward, which should not be approached nearer than 6 fathoms at low water.

At 42 miles to the sastward of Cape Egmont are Fifteen Point Church and Village, which stand near the above and can be seen at a great distance. A low rock above water, named the Little Dutchman, lies at the extremety of the point, one mile to the castward of the church, and shallow water strands in the distance of a long sile off shore. Sandbury Cove, 9 miles to the castward of Cape Egmont, is an extensive place, but nearly dry at low water.

The Egmont Bank (4 fathoms least water,) is narrow, and 24 miles long in a S.S.B. and N.N.W. direction. Its northern end bears W.N.W. + W., Smiles, from Cape Egmont, and its southern end W. # S., 4 miles, from the same bendland, and there are as much as 84 fathoms and a clear channel between it and the cape.

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WEST POINT bears from Cape Egmont N. by W. 1 W.; 17 miles; between is Egmont Bay, which affords excellent anchorage with off-shore winds in from 4 to 7 fathoms, sand and elay > but vessels should not anchor in less than 5 fathoms any- ' where excepting on the N.W. side of the bay, because there is rocky ground, with only 8} fathoms water of the river at its head, lying just within the 5-fathom line, and at the distance of 3 miles from the shore, whilst along the eastern shore 5 fathoms would be too near the edge of the shoals. On the northern shore of the bay, Wolfe and Brae Rivers are sandy places, dry at low water.

The Percival and Enmons Rivers are only fit for boats and small craft; and the approach to them is very difficult. On the east side of the bay, from the entrance of these rivers to within 3 miles north of Cape Egmont, the shallows run off a full mile. to the depth of 3 fathoms; 6; fathoms is near enough for a ship to approach this side of Egmont Bay. Jaques Church, 5 miles north of Cape Egmont, is conspicuously

The West Point consists of sand-hills 12 feet high, and there is good anchorage under it with winds between north and east, in 4 fathoms, bottom of sand. The West Spit rune off in a N.N.W. direction, 3 miles from West Point ; on some parts of it there are only a few feet water, on a bottom of sand ; the northern part of this trends N. by E., parallel with the shore, with 23, to 34 fathoms on it. Between the spit and the land there are from 6 to 4 fathoms, open to she northward, but no outlet to the southward. To avoid this opening when coming from the northward, and to keep without the West Reef, come no nearer the shore than 12 fathoms.

The West Reef is a narrow rocky reef, 4 miles long, in a north and south direction ; its soundings are irregular, being from 5 to 24 fathoms: the least water near the middle is 16 feet, and there are 18 feet near the south end; this latter part bears N.W. # W., 93 miles from the West Point, and is 25 miles from the nearest land; its north end in 44 fathoms is 34 miles from the land. This reef is very dangerous to ships rounding the West Point at night, or in foggy weather, as the deepest water is near its outer edge, having 13 fathoms close to it in one part. At night, to avoid it with certainty, the soundings should be taken from the main land ; and by keeping off the edge of the bank in 9 or 10 fathoms, you will pass 3 miles to the westward of it; near the outer edge of the bank, the tides run sometimes 2} knots, causing a heavy sea, on

The NORTH POINT is low, with red cliffs. / Vessels should always give this point a wide berth at night, or in foggy weather, on account of the reef which runs off from it to the north-eastward fully 2 miles to 5 fathoms, and 14 miles to 3 fathoms; without the 5-fathom line rocky uneven soundings extend out to 10 fathoms, sometimes causing a dangerous breaking sea.

From the West Point to the North Point the land trends about N.N.E., 6 miles, to Cape Wolfe, then N.E. by E., 27 miles. This coast is unbroken, and obsiefly composed of red clay and sandstone cliffs. The shallow water runs off some of the points a considerable distance, so that large ships at night should keep off in 11 or 12 fathoms, when running along this part of the coast.

TORTHER COAST .- Along the northern shore of the island the anchorage generally, excepting a few places off the bars of the harbours, is very bad, the bottom generally, excepting a low places on the social and with sand, gravel, and broken being of red sandstone, thinly covered occasionally with sand, gravel, and broken shells. The entrances of the harbours are narrow between sand bars, with dangerous bars of sand at various distances from the shore. They are only fit for small vessels, with the exception of Richmond Bay and Cascumpeque, and even these could not be safely run for in bad weather, and with a heavy see running, at which time the breakers on their bars extend quite across, leaving no visible channel. The northern shore of the island forms a great bay, out of which the set of the tides and the heavy sea rendar it very difficult to extricate a ship when caught in the N.E. gales, which frequently occur towards the fall of the year, and occasionally blow with great strength

and duration, at such times proving fatal to many vessels. From North Point to Cape Kildare the bearing and distance are S. by W. 1 W. 11 miles. The River Tignish lies about midway between, and has only 2 feet in its entrance at low water, but it affords shelter for fishing-boats. Between North Point and Cape Kildare there are rocky irregular soundings, of 8 to 5 fathoms, frequently CASCUMPEQUE HABBOUR is situated 5 miles S.W. ; W. from Cape Kildare.

PRINCE EDWARD'S ISLAND.

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pe Kildare.

Several very high sand-hills, 34 miles to the southward of its entrance, distinguish this harbour, as there are no high sand-hills to the northward of the harbour. The ontrance is 160 fathoms wide, and there are two sand-bars, with 10 feet on them at low water, upon which account it is absolutely necessary for a stranger to be provided with a pilot. It is high water here on the days of full and change of the moon at 5h. 40m; rise in ordinary epring-tides is 3 feet, and in neap-tides 2 feet; but this is not regular, and 13 feet over the bar at high water is all that can be safely reokoned upon on any particular day, unlies when strong easterly winds raise the are very irregular. The morning tides in summer are much higher than the evening tides, which sometimes disappear, leaving only one day tide during the 24 hours

RICHMOND DAY is of great extent, running in 10 miles to the S.W., and contains seven islands and a number of creeks and rivers; some of which are navigable for vessels of considerable burthen, and all of them by small craft and boats. Grand River, where there are fine settlements, can be ascended a distance of 7 or 8/miles. There are also settlements at Port Hill, in the N.W. part of the bay within Lennox Island, a settlement on Lennox Island, and large settlements at the head of the bay.

MALFROUE HARBOUR, signated on the eastern side of Richmond Bay/is very superior to any other on the northern coast of the island. There are generally 14 to 16 feet over its bar at low water, and from 18 to 19 at high water, ordinary eprings, with space and depth enough within for any description and number of versels. The principal entrance is between Fishery or Billhook Island to the northward, and the Royalty Said, which dries out full half a mile from Royalty Point. Just within this entrance the anchorage is good and well sheltered.

The West Gully is the other entrance; it lies on the N.W. side of Fishery or Billhook Island, and is so narrow and intricate as to be only fit for boats, or very small craft, although it has 9 feet on its dangerous bar 14 miles out from the shore. The Bar of Malpeque runs off from Fishery or Billhook Island, E. by S. 22 miles;

The Bar of Malpeque runs off from Fishery or Billhook Island, E. by S., 24 miles; it then runs to the southward, so as to join the shore to the eastward of Cape Aylesbury. This bar is exceedingly dangerous in bad weather, the bottom being sandstone; then all signs'of a drampel are obliterated by heavy breakers. The northern part of this bar, to the distance of I4 miles to the eastward of Billhook Island, is very shallow, having in some places only 4 feet at low water. Vessels may anchor outside the bar, in 7 to 5 fathoms, to wait for a pilot, and all

Vessels may anchor outside the bar, in 7 to 5 fathoms, to wait/for a pilot, and all strangers should endeavour to obtain one, and not attempt to take the bar in blowing weather.

The tides run the strongest at the entrance to Richmond Harbour, and here springs run 24 knots; within the bay they are much weaker. It is high water here on the days of full and change, at 6h.; springs rise about 3 fest, neeps 2 fest. N.E. winds raise the tides, and westerly winds the contrary. The morning tides are the highest in summer months.

Between Richmond Bay and Cape Tryon the coast is nearly straight and free from detached dangers; but a large ship should not approach nearer than 6 or 7 fathoms, as the shallow water runs out a considerable distance. Cape Tryon is a remarkable cliff of red sandstone, 110 feet high; at 12 miles, S.S.E., from the cape, is Grepville Harbour.

GHENVILLE HARBOUR.—The entrance to this harbour is one-third of a mile wide, and 8 fathoms deep; it is situated at the north-western extremity of a long range of sand-hills, the highest of which is 55 feet above, high-water mark. Theharbour is only fit for small vessels, as there is a shifting sand-bar, over which there are sometimes only 5 feet water, and the ohannel in is marrow. The bar extends out to the distance of two-thirds of a mile from the entrance, and the shallow water one mile, at which distance there are 5 fathoms over sandy bottom. At 8 miles S.E. 1 E. from Cape Tryon is Cape Turner, the highest cliff on the

At 5 miles S.E. 2 E. from Cape Tryon is Cape Turner, the highest cliff on the island, being 130 feet high. GREAT BUSTICO HARBOUR.--This harbouy has two narrow sandy extrances,

on either side of McAuelin Island, which are distart's and 5 miles respectively to the S.E. of Cape Turner. Very dangerous shifting bars of 4 to 6 fest, and extending three-quarters of a mile from shore, render this/place only fit for small schooners. Two buoys, whose positions are changed as occasion requires, point out the line of deepest water over each of these bars.

At 9 miles S.E. from Cape Turner is Stanhope Point; on which there is a sand-hill 80 feet bigh. A dangerous reef runs out from it three quarters of a milg to the depth of 3 fathoms, and one mile to 5 fathoms. There is only one foot of water on some parts of this rest, at a distance of t a mile from the short the "At half a mile to the westward of Stanhops Point lies the narrow sandy entrance of Little Rustice Harbour, which is only fit for beam

TRACADIE HARBOUR is situated 13 miles, S.E. by E., from Cape Turner, and 4 miles from Stanhops Point. A remarkable range of sand-hills, 50 or 60 feet high, lies on the east side of its entrance." The bar of sand shifts in heavy gales, and los on the entry and on he entrance. The part of said shifts in neavy gales, and place is only fit for small oraft, and even they require the assistance of buoys, and favourable weather, to take the bar with safety. Within the said bar the harbour is 3

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miles wide, and 22 fathoms deep. 11 bat SAVAGE HARBOUR lies 9 miles to the eastward of Tracadie, and has only 2 feet

at low water over its bar, and is only fit for very small craft.

at low water over its bar, and is only fit for very small craft. ST. PETER'S HARBOUR lies 'S miles farther to the eastward, and is of consi-derable extent. Although it runs in 7 miles in a S.E. by E.direction, with a depth in barbour is only fit for small vessels: the outer edge of the bar, in 3 fathoms, is distant two-thirds of a mile from the shore. The channel through the bar, in 3 fathoms, is distant of 5 feet at low water could be carried, is liable to shift in heavy gales. It is high water have on the days of full and sharks of the many at Sh. Mon depthing fine water here on the days of full and change of the meon, at 8h. 30m.; springs rise

From St. Peter's Bay to Cape East the coast runs E.S.E. 38 miles. unbroken and formed of red sandstone elifie. There are in general 10 fathoms water within one mile of the shore of this division of the coast; and as the bottom is of sandstone, the anchorage is consequently bad.

WORTHURSDAND STRAFT. TIDES. Of the tides in the Northumberland Strait, Capt. Bayfield says :----

The principal tide wave, after entering the Gulf between Cape Broton and New-foundland, sends eff, laterally, waves to the S.W., on either side of the Magdalen Islands. The first of these, which I shall call the eastern wave, coming from between those islands and the western shore of Cape Breton Island, arrives at the eastern entrance of the Strait soon after 8 o'clock, and proceeds to the westward, making high water later in succession from east to west as far as Pictou, which it reaches at 10 hours. At the same nominal hour, but 12 hours later, the other or western wave arrives at Cape Tormentine, having been retarded by the long detour which it has taken to the northward and weetward of the Magdalan and by the great extent of comparatively shallow water which it has passed overside to subsequent progress to the S.W. This wave makes high water later in succession at places along the eastern coast of New Brunswick, as we proceed to the southward; and, after entering the Strait, from N.W. to S.E., contrary to the course of the other or eastern wave

Thus, it is high water on the full and change days at Miscou at about 24 hours; at Point Escuminas and the North Point of Prince Edward Island forming the western. entrance of the Strait, soon after 4 hours; at the west point of Prince Edward Island at 8 hours; at Shedias 8 hours; and at Cape Tormentine 10 hours. When, therefore, the sastern wave arrives between Picton and the Wood Islands, the western part of the preceding tide-wave arrives between Cape Tormentine and Cape Traverse." They then meet, and combine to make high water at the same hour, namely, 10 hours, or a little later in the harbours, all over the central portion of the Strait from Picton to Cape Tormentine; causing also an amount of rise of the tides averywhere more than double, and in some of the harbours nearly three times as great as that which coours

"The eastern flood stream enters the Strait from the N.E., running at the rate of 21 knots round the East Point of Prince Edward Island, but is much weaker in the offing and over towards the southern shore. It runs round Cape Bear, and with an increasing rate along the land to the westward; is strongest in the deep water near the land, and runs at its extreme rate of 3 knote close past the Indian Rocks and Rifleman Read, and runs at its extreme rate of a knots close pass the industriations and industrial Reaf. Losing strength as it proceeds farther to the N.W., it is quite a weak atream when it meets the other flood stream of the Tryon Shoals. This eastern flood stream is not so strong along the southern or Nova Scotia shore, unless it be in Caribou

PRINCE EDWARD'S ISLAND AUNTAON HAT

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21 hours; at 5 the western, dward Island en, therefore; stern part of verse. They 0 hours, or a om Pictou to s more than which coours

t the rate of eaker in the and with an ter near the d Rifleman cak stream lood stream in Caribou Channel for a short space near Caribou Reef; and it is weak, not generally expeeding that a knot; in the middle of the strait.

The other or western flood stream comes from the northward, along the west coast of Prince Edward Island, sweeping round the West Point, and running strongest in the deep water near the West Reef, where its rate is 24 knots. Over towards the New Brunswick shore its rate seldom exceeds 14 knots, and this is its average rate as it pursues its course to the S.E., until we arrive near Cape Tormentine, where the strongest part of the stream runs near the Jourimain Shoals, and thence to the southward round and over the dangerons Tormentine Reefs with a great ripple, and at the rate of 3 knots.

From this account of the tidal-streams it appears that a fast-sailing vessel, under favourable circumstances, might enter the strait with the flood, and, arriving at Cape Tormentine scon after high water, might there take the ebb, and thus have the stream with her, with but slight interruption, from one end of the Strait to the other. Or, a vessel beating with the flood, might so time her arrival at the same point, as to be able to continue her voyage in the same direction with the ebb.

The following directions for navigating the Northumberland Strait are by Capt. H. W. Bayfield, R.N.:-

"Vessels bound to Miramichi, and the ports in the Strait to the westward of Cape Tormentine, after entering the Gulf on either side of the Island of St. Paul, usually pass to the southward of the Magdalens, and round the North Point of Prince Edward Island. The reef of this last-named point is exceedingly dangerous, and the lead should be kept constantly going when approaching it at night or in foggy weather; bearing in mind the probability of having been previously set to the southward in crossing from the Magdalens, especially if the wind has been from the northward.

Under the same circumstances, after rounding the North Point, the course should be shaped well to the westward, so as to ensure clearing the West Reef, which should be passed by the lead, running along the edge of the bank off the New Brunswick shore. Proceeding south-eastward, after having passed the West Reef, the lead will afford sufficient guidance along either shore, reference being had to the soundings, until we arrive near the narrow part of the Strait at Ospe Tormentine.

There, if the vessel be bound farther to the eastward, the shore of Prince Edward Island should be preferred, the soundings on that side being quite sufficient to guide the vessel past Carleton Head, Cape Traverse, and more particularly the Tryon Shoals; if the irregular tides off the latter, and the frequent set of the sb stream towards them; be remembered. The tides, however, in this narrow part of the Strait, are not very strong along the Prince Edward Island shore, off which the anchorage is good, in the event, of the wind failing; whilst on the opposite shore there is deep water, and very strong tides close to the Jourimain and Tormantine Refs.

If the wind be adverse, or scant from the southward, with the ebb tide running, a stranger had better not attempt this narrow passage at night, or when the land cannot be seen. Under such circumstances, it is recommended to anchor to the westward of Cape Tormentine; till daylight or a change of tide renders' it less hazardous to proceed. Vessele bound to ports in the eastern division of the Strait, enter the Gulf either through the Gut of Canso or by the faland of St. Paul. 'In the first case, the bearing of the light at the northern entrance of the Gut will guide them up to Cape George, from which, if bound to Pictou, there will be no difficulty in running along the land to the westward, if due attention be paid to the soundings, and afterwards to the bearing of Pictou Light. If the weather be thick, or the light not seen, beware of the reef off the east end of Diotou Island, which should not them be approached invarer than the depth of 10 fathoms, especially if the flood-tide be running.

than the depth of 10 fathoms, especially if the flood-tide be running. Vessels approaching from St. Paul's, and entering the Strait at the East Point of Prince Edward Haland, should not approach the latter nearer than 20 fathoms in fark nights or thick weather.

Cape Bear and its reef should not be rounded in less than 16 fathoms, under the same circumstances; and then, if bound anywhere to the westward of Fleton; the vessel should be kept more over towards Pictou Island and the southern shore, where the soundings will guide her, till the Indian Rocks and/Rifleman Beef are passed. The Light on Point Prim will greatly assist in passing the last-named danger, after which the lead will again afford sufficient guidance along the Primes Edward Island shore, past the Tryon Shoals, and through the Strait to the north-westward.

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On the opposite, or Nova Sociian shore westward of Pictou, the principal dangers to be avoided are the Middle Shoals, between Pictou Island and Caribou, Amet Island I and Shoals, and Waugh Shoal. The approach to all these is sufficiently indicated by the soundings, and therefore a constant use of the lead, and a careful reference to the chart, will enable the intelligent seaman to pass them at all times in galey; and also obtained."

PART IV.

RIVER ST. LAWRENCE.

NORTHERN SHORE, FROM THE RIVER ST. JOHN TO THE SAGUENAY.

FROM the River St. John the coast runs W.N.W. 60 miles, to the River Moisic, on account of the many dangerous rocks lying nearly a mile from the shore. Between to the shore, and from thence to Point St. Charles 40 fathoms, as the rocks are steepto, and have this depth within a mile of them.

BIVER ST. JOHN.—The entrance of them. BIVER ST. JOHN.—The entrance of this river lies in lat, 50° 17' N., and long. 64° 28' 30" W., and is 130 fathoms wide; but immediately within it increases to half cliffs of sand and gravel, over clay, with small sandy islands occasionally. A bar, having 7 or 10 feet on it at high water, according as it may be neap or spring-tide; very heavy surf. Good anohorage may be procured outside the bar, to which you is Mount St. John, an isolated saddle-backed hill, 1416 feet above the sea at high water, which forms an excellent may? for the river. At the distance of 8 miles, W.N.W.; from the River St. John is Magpie Point,

between which lies Magpie Bay, where good anchorage may be obtained with offshore winds, in a moderate depth of water. Magpie River disembogues in the northern part of Magpie Bay, and is a rapid stream, with a very narrow entrance. Nearly a mild west of the river is a rocky sheal at a quarter of a mile from the shore, At 32 miles. W.W.W.W.

At 34 miles, W.N.W. 1 W., from Magpie Point is Ridge Point, off which a long narrow ledge, of 4 to 6 fathoms, extends 41 miles to the westward, having within it one large and several small islands. This ledge is rocky and steep-to, and at times the sea breaks very heavily on it, occasioning great risk to large vessels. About 11 miles farther to the westward is Sawbill River, easily recognized by the

remarkable barren hills on either side of it, and also by the clay cliffs just within the entrance. It affords shelter to boats and small coesters, and can only be entered in and gravel, and broken shells, of 36 to 50 fathoms water, on which cod-fish abound: About 74 miles to the westward of Sáwbill River is the Shallop River, affording

shelter for boats, which can only enter when there is no surf. Off this, as well as off Sandy River of which lies farther westward, there are several rocks, both above and under water, some of which lie fully half a mille from the shore. Maniton River. This river lies 44 miles, N.W. by W., from Shallop River, and 86

miles westward of St. John's River, and is the largest on this part of the coast. It may be readily known, even at a distance, by two remarkable patches of clay oliffs, of the entrance. At a short distance within the entrance of the river is one of the

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TO THE SAGUENAY.

most magnificent waterfalls in Lower Canada, which falls 113 feet perpendicularly in one unbroken sheet of water. In fine weather, and with off-shore winds, goed anchorage may be procured off the river in 15 fathoms, with the entrance bearing N.E. A.B.; but small vessels may anohor farther in-shore. A small rocky shoal hee W. by N., 24 miles, from the entrance of the river, about three-quarters of a mile from the land.

About 104 miles from Manitou River is Bason River, having a spit of large stones running out about 150 fathoms from its east point of entrance. It is only fit for boats, and there are rapids within a short distance of the entrance. At 14 miles from this river is Cape Cormorant, 54 miles from which is Blaskowitz Point, having between some islets joined to the shore at low water, off which at about a mile from the shore is the Cormorant Reef, having 12 feet on it: this reef bears W. $\frac{1}{2}$ N. $\frac{24}{2}$ miles, from Cape Cormorant, and lies with Points Blaskowitz and St. Charles in one, W.N.W. nearly, so that vessels on approaching should keep the latter point open. The coast to Cape St. Charles is lined with rocks, and must have a good berth given to it.

Point St. Charles forms the eastern point of Moisio Bay, and has a dangerous reef ruoning off it, some of the rocks of which are above water, but the outermost patches are always covered; these latter lie S.S.W., three-quafters of a mile, from the point. This reef is so steep that there is no warning by the lead and very little by the deep-sea lead. Vessele beating here should guard against getting becalmed to the westward of this reef, lest the heavy S.W. swell should carry them towards the reef, for the water is too deep to anchor until close to the breakers.

Moisic Bay is about 11 miles in extent, with a depth of 50 or 60 fathoms between Point St. Charles the eastern point and Point Moisic the western point. Trout River is nearly in the centre of the bay. The eastern shores of this bay are rocky; but the western shore, from Trout River to Moisic River, is a bold sandy beach. Shelter for small boats is afforded in Seal House Cove on the eastern side of the bay.

At Point Moisic is the Moisic River, which, although larger than the River St. John, is so much obstructed by sand-bars that beats cannot ascend at low water. From the eastern point of entrance a bar runs half a mile and drice at half-tide, close to which are 40 fathoms of water. A bank rune off, in a westerly direction, 34 miles, from Moisic Point, and forms a large triangular choal, of from 1 to 2 fathoms, having near its S.W. extremity the Moisic Rock, of only 9 feet, which lice 14 miles from the shore, and is view daogerous, being as boil as a wall on the south and S.W. sides, and can generally be seen in fine weather, from the change in the colour of the water. When a vessel is standing towards this rock, she should tack when the north side of Manowin Island comes on with the south side of Great Boule Island, bearing W.N.W. $\frac{1}{2}$ W., as then she will be a mile from the edge of the shoal.

At 9 miles, N.W. by W., from the Moisio Rock is Sandy Point, having Boule Bay between, into which vessels should not venture, on account of its exposure to the southerly swell. Near the centre of the bay are the East Rocks, always above water, low, and bare of trees.

EVANT EXAMPLE BAY.—Off the entrance of the bay, are the islands, giving the name to the bay, which are high, steep, and thinly wooded, and may be seen 7 or 8 leagues off. The two easternmost islands are named the Great and Little Boule, and are separated by a narrow obtannel, which is considered to be unaske, on account of the baifing winds and strong tides. Westward of these and parallel to them are the Basque Islands, and to the south-westward of these are Manowin and Carousel Islands. Thus there are altogether aix islands, and they are all of considerable height; the seventh island, so called, is the peninsula forming the western part of the bay, which, at some distance, appear like an island, and is estimated to be about 730 feet high. Between Manowin and the peninsula form the West Rocks, which are small and low.

Seven Islands Bay is 24 miles wide. A fine broad, bold, sandy beach extends for three miles northward from the east point of the bay to the entrance of the principal river, near which stands the Hudson Bay Company's trading post. You easnot see these houses from the outer parts of the bay; but there is a wooder store on the beach, off which vessels usually anchor. This fine bay is sufficiently extensive for the largest fleets to lie in perfect safety, and so nearly land-locked as to resemble a lake.

NORTHERN SHORE, FROM THE RIVER ST. JOHN 150 /

There are three channels leading into this bay, the eastern, middle, and western channels. , The eastern channel, between Sandy Point and Basque Island, is sel used, on account of a rock in its centre, which is only covered at high tides; a r also runs off to the eastward of the rock, one-quarter of a mile, with 6 to 9 feet on The principal and best channel is the middle one, between Carousel and Manowin on the west, and the Basque Islands on the east; you leave the West, Rocks and Point Chases on the peninsule, on your port hand, giving the latter a good berth, to avoid a reef that rune, off 120 fathoms. The course through the middle channel into the bay is North, by compass. The west channel, though much narrower than the middle one, is also free from

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danger, being three-quarters of a mile wide, between Point Oroix and the West Rocks, off which there are two or three rocks at the distance of a cable's length to the north-ward; therefore give the West Rocks a berth of 2 cables' length in passing. The ebbtide is turned off towards these rocks by Point Croix, which must be attended to. No leading marks are necessary; for simply by giving the shores a berth of 2, cables' length in every part, you may enter the bay with safety, even with the largest of ships. With a scant wind from the north-westward, this channel is preferable to the Middle Channel, as it will save a good deal of beating into the bay. The ground is not fit for anchorage until you are well within the bay. Captain Bayfield, says :-- " The best berth for a large ship to lie at anchor in Seven

de Bay in with Sandy Point and the north side of Little Boule Island in one, and with Point Chases on with the west side of the West Rocks. The N.W. extremity of the sandy beach near the entrance of the river will then bear N. by E. 1 E. ; the sendy beach to the eastward, and nearly three-quarters of a mile from the 3-fathom edge of the shoals, which occupy the northern part of the bay. Smaller ves lie closer to the shore, in 6 fathoms at low water, which is as near as a vessel ought to anchor. In this anchorage there is a considerable swell with a strong southerly wind, but never enough to endanger a vessel, although sufficient to prevent boats from landing. Those that may wish to lie perfectly smooth, may anchor in the S.W. parts of the bay, in 13 fathoms, soft clay bottom, where they will be perfectly land-

Outside the islands the water is very deep, and a vessel is enabled to stand in almost close to their rocky shores.

From Seven Islands Bay the coast runs to the S.W. by W., 60 miles to Point de Monts, and is in general of moderate height, with a few hills back in the country. The

shore, generally, is clear of danger, and may be approached by the deep-sea lead. The first river met with after leaving Seven Islands Bay is St. Margaret's River, which is about 8 miles from Carousel Island. On either side of the river's mouth is a sandy beach, and a bar extends three-quarters of a mile off the entrance. sanay seach, and a par extends three-quarters of a mile on the entrance. St. Margarot's Point, on the west side of the bay into which the river falls, is of moderate baight, and has a rest extending one-third of a mile off, which is bold-to,

having 70 fathoms within a short distance of it, so that little or no warning is given by the leade

About S.W. by W. 16 miles, from St. Margaret's Point is Great Cawee Bland, having a low coast between, bordered with small islets and rocks close in-shore ; but this part may be approached by the lead to 20 fathoms: the deep-sea soundings off this part of the coast are very irregular. Great and Little Cawee Islands are high; and have of trees. On the N.W. side of Great Cawee Island there is a bay, in the mouts of which anchorage may be found at a cable's length from the island, with shelter from W. by S. round to N.E. and easterly; but S.W. winds blow right in, and send inta heavy sea. The entrance to this place is dangerous and intricate, and too

small fly large ships, yet it might be of use to a vessel in distress. To exter this analorage from the eastward, steer N.W., past the N.E. side of Great the over island, going not nearer than haf a mile to avoid the sheal off the mouth of the source until the point of the mainland to the meatward opens clear of the mouth side of the island. Then steerior the point of the mainland to the main and, keeping it midway between of the island. Then steer for the point of the main land, keeping it midway between the north side of the island and the large rocks to the northward of it. When you errive between the rocks and the island, haul into the mouth of the small bay, which you will see on the N.W. side of the latter, and anchor in 7 sthoms at low water. There are 12 or 13 fathoms in the middle of the channel, and upwards of 9 fathoms

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In running for this anchorage from the westward, a vessel may pass between Little and the main, keeping in mid channel ; but the better and safer way is to pass Haven Little and Great Oawee Islands, hauling close round the west point of the latter into the anchorage. In this route there is nothing in the way, accepting the round rock to the south-westward of the south point of the Great Cawee Island, which can always be seen.

The tides run fairly through between the islands and the main land, at a rate seldom

exceeding 11 knots, and generally of much less. At 11 miles S.W. by W. from Great Cawes Island is English Point, between which

At 11 miles S.W. by W. from Great Cawse Island is English Point, between which there is a good open readstead named Lobster Bay, affording plenty of accommodation for the largest reasels. On the west side of the bay are the Grooked Islands, between which and the reef extending off the eastern point of the bay, named Point, Sproule, there is good anchorage in 5 to 12 fathoms, on fine clayey, and, well sheltered from S.W. round by west and north to East; but all winds from East, round by south to S.W. go right in with a heavy sea and thick weather. About 14 miles to the westward of the Grooked Islands is Pentecost River, having a narrow entrance with 7 feet at large the the distance of 24 miles, and at high water, and the Grooked Islands is Pentecost River, having a coasting vessels may run in and share there. Hence to English Point the shore consists of a fine bold sandy beat English Point has a shoal of Ibre the distance of about one-third of, a mile, which is bold to S.S.W., from the point is Egg Island wiring between them the N.E. Reef, and Nørthe Books. Egg Island is low, narrow, without trees, and about three quarters of a mile long, is a N.M.E. A.E. direction. The North Books, slways above water, lie 4 cobles' length N.M.E. from the island, and form a black, low, narrow reef, 3 cables' length in the same direction, bold towards the main and likewise towards English Point. A in the same direction, bold towards the main and likewise towards English Point. reef, under water, runs out from these rocks in a S.S.W. direction, 24 cables' length. leaving a very narrow channel between them, and the island, with only 3 fathoms in it. The N.E. Reef runs off 6 cables' length from the N.E. part of Egg Island; and is the greatest danger on the coast between Point de Monts and the Seven Islands : some of the rocks are awash at low tides.

The island and the reefs form a natural breakwater, 11 miles long, in a N.N.E. direction ; the northern end is three-quarters of a mile from the main land, and the sonthern nearly a mile. Within, and westward of this breakwater, is good ancherage ; but it is very much narrowed by flats running off from the main, which, opposite to the north end of Egg Island, diminish the width of the channel to 870 fathoms. The the north end of Egg ising, diminish the which of the onamper to 570 istnome. The best anchorage is to the S.W. of this narrow part, in 9 fathoms, cand. As the water is deep towards the island and reefs, a ship should have a good scope of cable with a westerly wind, lest the suchor should start, and you drive on the rocks before a second anchor can be let got, with easterly winds you drag up hill and there is not much danger of the, anohor starting. The best anchorage is the start he S.W. and of Egg Island bearing S.E. by S. and the inner side of the North Boars N.E. round, by south to S.W. and error with the another and there between S.E. round, by south to S.W., and even with them a vessel may find shelter by changing her, both more to the eastward, in 7 fathoms, sandy bottom.

to the estiward, in 7 failions, sandy bottom. There is nothing in the way when entering this anchorage from the southward and vestward, the S.W. end of Legs Island being bold. If you, intend running through between the island and the main, staud to the northward to S or 9 fathoms, or until English Point is open half a point to the northward of the North Rocks ; then steer for English Point, giving the inner side of the North Rocks a berth of a cable's length, until you have passed them one-third of a mile; you will then be in 7 fathoms and may haul out to see, not going to the southward of S.E. by E. till clear of the N.E. reaf. You may run through this channel from the eastward, by reversing the directions. dire tions

About 31 miles .W. by S. from Egg Island is a small stream named Calumet River. From hence to the southward, for the distance of about a mile, the shore is bardered by reefs of large stones baving 15 fathoms off them at the distance of half a mile to see, ward. To the S.W. of these reefs, as far as Trinity Bay, the coast is free from danger, and may be approached with safety if due caution be used. There are 20 fathoms at the distance of half a mile to 1 mile, and 40 fathoms from 2 to 3 miles from the shore S.W. by S. from Egg Island, distant S. miles, is Osrbou Point, a small rocky penin-

NORTHERN SHORE, FROM THE RIVER ST. JOHN

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sula, having sandy coves on either side of its isthmus, in which pilot boats find shelter,

Trinity Bay .- This bay is 5 miles to the southward of Caribou Point, and affords safe and convenient anchorage for vessels unable to beat round Point de Monts. she

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Pilots are generally found waiting in the bay for vessels when the wind is from the westward, but in easterly winds they take shelter in St. Augustine Cove 1; miles to the westward of Cape de Monts.

In the N.E. point of the bay are two rocks, the northern one of which dries to the main with spring ebbs, but the southern one dries nearly a quarter of a mile to the southward of the point. This bay is 8 miles round, and a river of excellent water falls into it; another stream may also be found about half a mile to the westward of the

To sail into Trinity Bay, either from the S.W. or N.E., come not nearer either shore

than 15 fathoms until the bay opens; then haul in, and anchor in 7 fathoms, with the lighthouse on Point de Monte bearing S.W. by W. Small vessels may anchor in 3 fathoms, just within the reef, the western point bearing S.W.; and large vessels may

POINT DE MONTS .- This point is of moderate height, and has a lighthouse upon it, showing a bright fixed light, 100 feet above the sea, visible 6 or 7 leagues off. A ledge of rocks, having 9 or 10 feet water on it, lies S.W. from the lighthouse and S.E. from the extremity of the point, extending half a mile from the shore, and there is another rock with two fathoms on it at half a mile S.S.W. from the lighthouse. A third rock, with a little more water over it, is said to lie E.S.E. from the lighthouse at nearly the same distance. In approaching these shoals great caution is necessary; 16 fathoms being considered to be as near as safety will permit.

being considered to be as near as salety will permit. Vessels being to the eastward, in a dark night, when the land cannot be seen, should tack when the light bears W.S.W., or even W. by S., if they are as near as Trinity Bay. Vessels to the westward of the light should tack as soon as it hears E. ; N.; when it bears east, it will be shut in by the land.

At 14 miles to the westward of Point de Monte is St. Angustine Cove, which is

At 17 mines to the wesward of A one to motion is the Augustine Cove, which is a place of shelter for boats, and where pilots may occasionally be found. CAPE ST. NICHOLAS lies 17 miles W. by N. from Point de Monts. "About half way between is Goodbout River, which is available only for boats. At 3 miles before reaching the cape is St. Nicholas Harbour, affording excellent shelter. The entrance is 75 fathoms wide and has 14 to 17 feet at high water, but at low water spring-tides there are only 5 feet. The shoals on the east side dry out so far as to leave a channel only 80 fathoms wide, in which are a few large stones which can be seen and avoided if the tide be not high enough to pass over them. In the deepest part of the harbour are 91 fathoms. From Cross Point, the western point of the entrance, which is bold, the shoal water extends across a small bay to the westward of the point, 400 fathoms, and off shore 160 fathoms. The anchorage between the shoals off the harbour's mouth is too much confined for large ships, being only about 8 cables' length fi width, but the ground is good and depth moderate; here you may anchor, and prepare for

To enter the harbour bring the end of Cross Point to bear N.N.E., then steer so nearly for it as to leave it not more than 50 nor less than 80 yards distant on the port hand. If the wind will allow, continue to run in, at the same distance from the shore on the west side, until you deepen your water; but if you lose the wind, or be met with light baffing flaws out of the harbour, as often happens in westerly winds, send a line on shore on the west side, or drop your anchor underfoot as soon as your sense! loses her way, and warp into deep water. The shoal water, which may be called the bar, and commences at Cross Point, continues for 200 fathoms within it, and the channel is rendered narrow by shoals off the eastern side, for an equal distance farther up the harbour. In order to have as much room as possible, a vessel should anchor farther in than the three large rocks, which will be seen on the eastern side of the harbour. To run out again, a varied anist wait for a N.W. wind, or take advantage of the land-wind in the early part of the morning, which often occurs in fine weather when westerly winds prevail; or, lastly, she must warp out in a light breeze or calm, to the entrance of the bay outside, and to a position from which she can make sail. South-east winds blow right into the harbour, and are consequently most favourable

for running in, but with a strong wind in that direction, and at high water when the

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TO THE SAGUENAY.

shoals are covered, there is generally some sea outside the narrow entrance; an accident at such a time might be attended with serious consequences, and therefore it is only in very fine weather that the entrance should be attempted with a S.E. wind.

North-west winds blow right out of the harbour, and often with great violence. A W.S.W. wind is the safest for running in, for the entrance and bay outside are then quite smooth, the sea being turned off by Cape St. Nicholas; but this wind will seldom take a vessel completely in, it will usually only enable her to shoot so far within Gross Point that a line may be sent ashore, or a kedge ahead, for the purpose of warping in the remainder of the way, which may be quickly done if due preparation has been made beforehand. The entrance should be attempted in the last quarter flood, then if the vessel touches the ground she will receive no damage, and there will be time for her to warp in before the tide begins to fall.

It is high water, F. and C., at 1h. 55m.; spring-tides rise 12 feet, weap-tides 7 feet. Water can be easily obtained on the eastern side of the harbour, or at the head of the harbour at high water.

At the distance of 184 miles, W. 1 N., from Cape St. Nicholas is Point St. Giles, which is high and rocky. Between these two points are St. Panoras Cove and English Bay, of no use to shipping. About 5 miles to the south-westward of Point St. Giles is Manicouagon Pollst, which is low and thickly wooded, with a broad sandy beach like the rest of the coast westward to Outard Bay.

Between Points St. Giles and Manicouagon is Manicouagon Bay, which is dry at low water, with the exception of the narrow channels leading to the river. The bay is too dangerous a place to be of much use to shipping.

Off Manicousgon Point a sandy sheal extends, having many boulders on its eastern and southern parts; the easternmost point of this extensive and dangerous sheal lies E.S.E., 24 miles, from St. Giles Point, and E. by N., 04 miles from the N.E. part of Manicousgon Point. From the south point of the sheal it continues to the westward/ curving with the land past Outard Point fully 16 miles, and extending from the shore from 2 to 24 miles. Near to Outard Point are all sand and clay eliffs. The tide of Sood and ebb sets all along the edges of this sheal, but it is not perceptible more than 5 or \$ miles off shore. Great ripplings are frequently met with without the edges of this sheal, particularly off its south point.

From Manicousgon Point the coast runs 11 miles to Outard Point, on the north side of which is the river, which is useless for vessels. From Outard Point to Bersimis Point the distance is 9 miles; between them the coast forms a bay, having three rocky islands in it which appear as two from seaward. In the western side of this bay there is anthorage in 14 fathoms, mud, with Bersimis Point bearing (S.W. by S., 34 miles; but in running for it caution is required to avoid the bar of Bersimis River. Here you will be exposed to easterly winds.

Bersimis River, in the western part of Outard Bay, has sands and shoals extending 14 miles outside the entrance, which dry at low water and render the place useless to an ipping. Immediately outside these shoals the water suddenly deepens to 60 fathoms within a mile or two. Bersimis Point is low and covered with spruce-trees, and as the lead affords no warning it is very dangerous to approach it either at night or in foggy weather.

From Bersimis Point the coast runs 51 miles W. 1 N. to Jeremy Island, which is small and lies close to the shore. From thence it runs 5 miles S.W. by W. 1 W., to Cape Colombier, which is rocky, with a small islet close to its western shore. About 14 miles from off this cape lies the Guinare Shoal, a narrow ridge of granite rock, nearly 2 miles long, running parallel to the shore, with 2 to 3 fathoms over it at low water; it is very dangerous, as there are 23 fathoms close to its S.W. end, and also along its southern shore. Between it and the shore are 4 to 3 fathoms. Wildfowl Reef lies 4 miles S.W. by W. 1 W. from Cape Colombier; it consists of a large bed of rocks, extending three-quarters of a mile from the shore. Vanish therefore should be careful when standing in towards this part of the coast, 30 fathoms being quite near enough.

Between Cape Colombier and the Wildfowl Reef the coast bends inwards and forms a shallow bay full of rocks named Plongeur Bay, and 4 miles hence to the westward is the Bais de Laval, having a rocky island at its entrance, within which it dries at low water. Vessels may safely stand in towards it as the soundings decrease gradually from 10 fathoms at the distance of 24 miles from the shors. Off the elay cliffs to the S.W. of the bay there is good anchorage in 6 or 7 fathoms, clay bottom.

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At Port Neuf, 6 miles farther to the south-westward, is a station of the Hudson Bay, Company, which with the church can be distinctly seen from the offing. About threequarters of a mile E.S.E. from the church upon a low narrow peniceula, there is a property of pine-trees; this peniceula runs N.N.E. for about 2 miles, and joins the clay suits at high water. Here small vessels may find good shelter, by lying aground on A small sheet.

A small patch of sand, having 32 fathoms on it, lies, with the church at Port Neuf bearing S. W. by W. 1 W., from 12 to 3 miles, which would be dangerous to a vessel in a heavy sea. From hence the Port Neuf Sands extend round the peninsula to Foint Mille Vaches and run out from the shore about 12 miles; they are very dangerous, as POINT ATT ATT ATTACK TO THE SAND AND A STREAM AND

POINT MILLE VACHES is low and sandy and covered with sprace-trees. The sheals off this point narrow the navigable channel between them and Biquette, on the opposite side, to 114 miles; both sides are bold-to, and as the set of the tides and currents is very strong the greatest attention to the soundings, and a good look-out, are absolutely abcessary to a vessel running up in dark nights or foggy weather. Into the Bay of Mille Vaches several small rivers fail, the principal of which is the

Sault de Mouton, which has a fall of 80 feet just within the entrance. In the bay are a number of shoals and rocks which dry at low water. Good anchorage may be obto N.E. by E., with the south extremity of Point Mille Vaches on with the inner or distance of 2 or 3 miles from the point, and three-quarters of a mile from the shoals. There is not much tide, and the ground is good.

The course and distance across the Bay of Mille Yaches to two large rocks, which have three small ones nearly a mile to the SW. of them, and are named the Esquamine lakets, is S.W. 4 W., nearly 12 miles. The coast to the south-westward, from the Esquamine lakets to Little Bergeron, a distance of 16 miles, consists of granite rock, steep and bold, and free from all danger, excepting a flat which occupies arbay on the eide of a line joining the points of the bay, and is consequently very little in the way of the coast.

The tides are regular, increasing in strength as you approach the comparatively narrow pass on either side of Red Islet. The flood is the stronger tide of the two, tho River Saguenay. The flood does not extend above 5 or 6 miles off the north shore below Bergeron, and the closer to that shore the stronger is the stream. Its rate at off Bergeron from 3 to 3 knots, in epring-tides, is from 13 to 2 knots; and Great and Little Bergeron and the stream is a strenger to 2 knots; and

Great and Little Bargeron are two coyas separated by a point. They are both full of large bouldars, which dry at low water, and have small streams at their heads. S. by E. 1 E. 112 miles, and the Saguenay Cliffs, at the east point of entrance of the Normal Stream Stre

S. by E. 7 E., 117 miles, and the Sequency Cliffs bearing W. by S., distant 8 miles, in 7 You may anchor, with the Sequency Cliffs bearing W. by S., distant 8 miles, in 7 shore; but immediately without this you fall into deep water. A black buoy is placed on a 12-feet patch, off Vache Reef; to be left on the right hand when entering the

Seguency. The server and the second server and the second second server is a server and server is set and these running off from Point Miles Vectors. The set and the s

This extraordinary river, which was imperfectly known till the late surveys, is as remarkable for the great volume of water which it brings down to the St. Lawrence, as for the anormous depth of its bed, which is fully 100 fathome lower than that of the St. Lawrence. It comes from the Lake St. John, and at Chicoutimi, a trading per nav 57 for con hei 3 soc At

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SOUTHERN SHORE FROM CAPE GASPE TO BIC ISLAND. 15

pest of the Hudson Bay Company, which is 65 miles above its mosth, it becomes navigable, and 6 miles above which, to the rapids, the tide ascends. To Point Roches, 57 miles from the St. Lawrence, and 8 miles below Chicoutimi, it is navigable for the largest ships; and up to this part there is no danger in the river, the shores consisting of steep precipices, some of the headlands rising more than 1000 feet in height.

The current runs down with great force, the ebb-tide varying from 3 to 5 knots, according to the breadth of the river, which is from two-thirds of a mile to 2 miles. At the mouth of the river, this ebb-tide runs at the rate of 7 knots over Lark Islet. Spit, and the S.W. extreme of Point Mille Vaches.

Tadousac, which is in the entrance of the river, was formerly the principal post of the French, for trading with the Indians. It has declined, and now belonge to the Hudson Bay Company.

The harbour is off the settlement, a mile within Point Mille Vaches, and is well sheltered; but a heavy anchor should we cast close in-shore, on account of the eddies which sometimes set into it from the river.

Across the mouth of the river there are 12, 20, and 28 fathoms, but immediately within, the depth increases to above 100, and a little farther up to 150 fathoms. The current setting strongly over this bar, meeting with the spring ebbs of the St. Lawrence, cause breaking and whirling eddies and ripplings; and these streams opposed to a heavy easterly gale, cause an exceedingly high, cross, and breaking sea, in which no bost could live. On the flood at such times, there is no more see than in other parts of the river.

To enter the Saguenay, have the beginning of the flood, and sufficient daylight to reach Tadousac. Winds from the S.W., southward to N.E., will take vessels into the river with the flood, but the N.E. is most to be depended on; but whether you approach from the S.W. or N.E., bring the western points of the Brandy Pots and White Island in one, and open to the armhward of Hare Island, bearing S.S.W. 1 W. Run upon this mark (and it will lead you well clear of Point Mille Vaches Patches and Lark Reefs, off the mouth of the river,) until La Boule Point comes in one with Point Ilot, bearing N.W. by W. 1 W., which will clear the S.W. side of Point Mille Vaches Reef; Point Ilot being the there low N.W. point of the Harbour of Tadousac, and La Boule a high and sound-backed hill, forming a steep headland, 4 miles above Tadousac, and the extreme point seen on the same side of the river. On Bar Reef, 24 miles E. 4 S. of Lark Point, 5 chequered buoy is or was placed ;

to be left on the port hand when entering the Saguenay.

Haul in upon the last named leading mark, keeping the S.W. extreme of La Boule just open, which will clear all dangers; and when as far in as Point Rouge, bear towards the trading post, into the harbour, dropping your outer anchor in 16 fathoms, and the inner one close to, or within, low water mark.

SOUTHERN SHORE FROM CAPE GASPE TO BIC ISLAND.

THE coast between Cape Gaspé and Cape Chatte is high and bold, free from danger, and destitute of harbours; but although free from danger, it must, nevertheless, be guarded against in dark foggy nights, since the water is everywhere too deep to afford sufficient warning by the lead for the safety of vessels. The shore along its whole sufficient warning by the lead for the safety of vessels. The shore along its whole extent, excepting in some of the bays, is of highly inclined slats and graywacke rocks, which would, cut through a vessel's bottom in a very short time; and such is the impracticable nature of the country, that those who might escape to shore would run great risk of perishing from want before they could reach a settlement. At 7 miles from Cape Caspe is Cape Rozier, which is low and has shoel water extending from it about one-third of a mile; in the bay to the southward of it there is also, a reef extending half a mile from the shore. Under Cape Rozier there is shelter from N.W. winds, but it is not considered desirable anchorage. About 7 miles to the north-westward of Cape Rozier are Griffin River and Cové, affording shelter for boats, and 5 miles farther is the Great Fox River, off each point of the sufface to which are reefs sheltstring the anchorage.

the entrance to which are reefs sheltering the anchorage. Here vessels may anchor

for a short time in summer, and obtain supplies of wood, water, and fresh provisions. At 16 miles from Great Fox River is Great Pond, a small creek affording

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The Magdalen River is 24 miles N.W. 1 W. from Great Pond. It is sheltered from the northerly winds by a reef which extends out from the north-west-point (Cape Magdalen) of the entrance aboft 200 fathoms, in a direction parallel to the coast. The river has 13 feet water at spring tides, so that small vessels are enabled to run in when the sea is smooth and the weather fine. In the bay vessels may anchor in fine when the sea is smooth and the weather line. All the day vessels may auonor in line weather in 7 fathoms, sand, gravel, and broken shells, at the distance of three-quarters of a mile from the sandy beach, with the N.W. point bearing W.N.W.; here they will be well sheltered from W.N.W. round by south to E.S.B.

About 16 miles from the Magdalen River is the Bay of Mont Louis, in which small vessels may anchor in 8 to 16 fathoms during fine weather, riding nearer the west than the east side; here they will be sheltered from W.N.W. by south to E.S.E. At the back of the bay is the river, but as it has only 7 feet at the entrance at high water,

CAPE ST. ANN .- From the Bay of Mont Louis to Cape St. Ann the distance is 26 miles, and the coast is of moderate height with cliffe. Inland, and beyond the cape, are the mountains of St. Ann, which commence about 4 leagues south-westward of the cape, and continue in that direction 10 or 12 leagues. They are of great altitude, and may be seen 80 or 90 miles in clear weather : the highest peak lies 14 miles within Cape Chatte, and is estimated to be 3,940 feet above the sea; these hills are therefore the highest in British America.

There is a settlement at St. Ann's River, about 33 leagues E.N.E. from Cape Chatte, where a few families reside, who are always ready to afford assistance if necessity should requireft; but this as well as the little river near Cape Chatte are both barred at the entrance, and afford very little accommodation to shipping, although the former river, St. Ann's, may be entered by small schooners at high water. - Gape Chatte River becomes almost dry at low water, except one spot, where 10 feet may occasionally be found. These rivers are therefore but little frequented.

CAPE CRATTE in long. 66° 49' W., can easily be distinguished, as it appears like a round hill, separated from, but of less height, than, the land behind it. It is the most northerly point of land on the south side of the River St. Lawrence. Henco to the River Matan the distance is nearly 11 leagues on a W. 1 S. bearing; between there are several coves having the appearance of affording shelter, but none is attain-able. The shore is all bold, with high cliffs, and affords nothing but wood and water. Off this part of the coast the soundings are all of sand beyond the depth of 15 fathoms; but within that depth they are hard and foul. In 15 fathoms water you will not be half a mile from the rocks, and in some places close to them. The water deepens very fast from 15 fathoms, so much so, that 14 miles from shore you will have 50 and 60 fathoms, with fine, clean sand, and somewhat farther off no ground at 100

The tide flows, by the shore, till 2 o'clock nearly, at Cape Chatte; but the tides in the River St. Lawrence are very much influenced by the winds, so much so that strong easterly winds make them flow much stronger and rise much higher, while westerly winds have a contrary effect. Common springs rise 12, neap-tides & feet.

The River Matan is small and with a narrow entrance, and only available for small vessels. When abreast of the river, and not more than 3 or 4 miles from it, you will see several houses, and a bluff cliff standing by itself close to the west side of the entradice. If desirons of entering, you should never attempt it without a pilot, as the bar shifts, and there is seldom more than 4 feet at low water, and 15 at high water. spring-tides. Outside the bar there is anchorage, in 5 fathoms; at half a mile off shore, or a little farther out, in 10 fathoms, bottom sand and clay. A very rapid tide sets out of the river during the ebb.

Pilots and provisions may be procured here if you should be in want or distress. The tide flows at Sh. on the days of full and change.

When a few miles to the eastward of Matan, and 3 miles from shore, you will see When a few miles to the eastward of Matan, and 3 miles from shore, you will see the Pape of Matan bearing S.W.; they stand in-land, to the westward of the river, and are with difficulty to be distinguished, although this is the best bearing upon which to see them; Mount Camille will then bear S.W. by W. 1 W., distant 14 or 15

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FROM CAPE GASPE TO BIC ISLAND.

leagues; this mountain appears to the northward of all the land then in sight, in the form of a circular island.

From Matan to Little Metis Bay the distance is 22 miles along a low, rocky, wooded shore. The bay is small and divided into two rocky coyes, dry at low water, into the southern of which a stream falls. Metis Point, the outer point of the bay, has several buildings on it, and a reef rune from it to the eastward, which affords shelter to small vessels from the N.W. winds. This reef partly dries at low water, and may be passed by the lead in a depth of 4 fathoms.

Grand Metis is separated from Little Metis by Metie Point. In the western particle the bay is the river, which is of but little use to ships, as the bay nearly dries at] water; however, small vessels may anchor there with S.W. winds, in S fathoms at low water, but with westerly winds they will have no shelter. Notwithstanding, vessels lie here during the summer months, to load timber; they generally moor with the river bearing S.S.W., distant 11 miles, in 6 fathoms at low water, bottom mud. A vessel may occasionally another anywhere off the bay, in 6 to 12 fathoms, bottom good, and sufficient room to get under weigh. Grand Metis has risen into notice from the saw-mills erected on a fall about 3 miles up, where quantities of fine spruce deals are out.

Cock Cove, 14 miles to the westward of Metis Point, affords good anohorage in 3 fathoms at low water, with shelter from the winds along the coast: from it Mount Camille bears S.E. by S., distant 8 miles. From hence to Father Point the distance is 41 miles; here pilots may be obtained.

About 8 miles W. by S. from Father Point is Barnaby Island, and between them is the road of Rimousky, where vessels anchor during the summer to take in cargoes of lumber. The best both is considered to be with the eastern point of the island bearing W. by N., Rimousky Church S.S.W. 1 W., and Father Point E.N.E. : the The best berth is considered to be with the eastern point of the island depth will then be 4 fathoms, at low water spring-tides, over mud bottom. Small vessels may anchor farther to the westward in 3 fathoms at low water, with the east end of the rocks, off the eastern point of Barnaby Island, bearing N.W. by W., and distant a quarter of a mile.

Off the eastern end of Barnaby Island a reef extends about one-quarter of a mile, which may be passed in 4 fathems. Barnaby Island is about 3 miles long, low, and wooded. There is a channel between it and the shore, which dries at low water, and

wooded. There is a channel between it and the shore, which dries at low water, and should not be attempted even at high water by vessels drawing more than 6 feet. At the back of the island, on the main, are the Church and Village of Bimousky. Off the outside of Barnaby Island there is a 3-fathom shoal extending out ‡ of a mile, and the reef off its western end runs out in a W.S.W. direction more than three-quarters of a mile. Between the western end of Barnaby Island and the mainland there is a large, high, and hare rock, which is distant from the island about two-thirds of a mile. Midway between the western points of the island and the bare rock, bear-ing north and south from each other, there are two fathoms at low water, int Barnaby Road, over mud bottom, affording good anchorage to small vessels, in all betweeterly winds. Rimousky Church in one with the satern end of the rock, will it wover the tail of the reef off the west end of Barnaby Island the satern end of be rock. From the east end of Barnaby Island the eastern end of Biquette Island bears West 144 miles, and Cape Arignole W. by S. **5**. 134 miles. Cape Arlenole and the east

West 143 miles, and cape Arignole W. by S. 183 miles. Cape Arignole and the east end of Bic Island lie due north and south of each other; and the west end of the island, bearing N.W., and the east end of the react which extends S.E. from the island, N.N.E.; the distance from the cape to the body of the island, being about 24. miles.

Between Barnaby and Big Island are the River Ottey and Old Harbour; the former bears S.W. from Barnaby, distant about 5 miles and is of little use to shipping except to water at; the latter is still further to the westward, about 3 miles, and is a very good place for small vessels to/lie sheltered from westerly winds. This harbour has two round islands on the east side of it, which contract the entrance to two thirds of a mile in width; the anohorage is midway between the westernmost island and the west side of the harbour in 8 fathoms at low water, the west point bearing West, distant onethird of a mile. When coming from the N.W. for this anchorage, keep the westernmost of the two islands its own breadth open to the eastward of the west point of the harbour, as it will lead you clear of the eastern rock of the Cape Arignole Reef, which

SOUTHERN SHORE

danger in the way. A family resides here, who occasionally can furnish is th provision, if necessary.

Within Bio Island is Cape Arignole, on the east side of which is the Within Bio Island is Cape Arignole, on the east side of which is the read which runs out E. by M. one mile. It sousists of two rocks, the wester and a character is the most of which is always above vater, and bears South 23 miles, "and the read of the S.E. reef of Bio, and E. 4 V., 14 mile, from the N.W. extra set of a character is a set of the set o

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attempt this passage. The best time is at low water, when the dangers show, at which time from 5 to 9 fathoms, irregular soundings, will be obtained in mid-channel. The morthern side of the island is steep to, there being 15 fathoms at a short dis-

The N.W. reaf of Biquette is very dangerous; it lies 14 miles due west from the island, with the west end of Bic in one with the N.W. point of Ha-ha Bay, bearing S.S.E. # E., but this last mentioned point is not so easily recognized, on account of the high land behind it. In approaching it from the westward, the north extremity of Cape Arignole should not be shut in behind the west point of Bio. This reef is composed of two rocks about 150 fathoms long, and just, covered at high water, and like Biquette Island is steep to on the north side, having 12 fathoms close to. At the distance of 2 miles north of the island there are 30 fathoms, and only 11 miles from the reef there is the same depth, with bottom of sand. Further off no bottom will be found at 50 or 60 fathoms

The lighthouse on Biquette Island shows a light of the first class, which is lighted from the 15th of April to the 15th of December. It is 112 feet above the sea, and revolves in 2 minutes." A gun is fired every hour during fogs and snew storms. Behind Bio Island, on the main, is the high land of Bio, the there has part which is 1,236 feet above the level of the sea, and bears S.W. by the miles f best part of miles from

Aloide Reef .- The Aloide Reef, lying between Bic and the main, as it is so bold all round that no warning whatever is given

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. The swashway here men to formed by a river running down has, just to the westward of it thid appearing like chalk, but which This, is a very good mark for small vessels coming from the westward to old Bie, as the east part of the rest of the cape is covered at high water, then the the is out when the title is out.

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rock of about 6 feet in extent, having 4 feet on it at low water, and stands on a rocky shoal 100 fathoms long, lying parallel, to the coast. It lies due S.W. from the west point of Bic, distant 3f miles; and there is no close leading mark for clearing it, but if Mount Camille by not entirely shut in behind Cape Arignole vessels will be in no danger of it.

Under either end of Bic Island there is excellent anchorage, and also between it and the mainland, according to the wind; and vessels which may be met by an easterly wind, had better anchor than attempt to beat down the Estuary in the long and foggy nights of the fall of the year. More shipwrecks have arisen in consequence of vessels/obstinately endeavouring to beat down against an easterly gale, with its accompanying fog; than from any other cause, and yet all that they can gain by such a course/might be run in a few hours of fair wind.

TIDES, &c. To the westward of Bis the first of the flood comes from the N.E., but there is very little stream of flood in neap-tides between Bio and the main land, excepting close to the latter. In spring-tides it runs through the channel at the average rate of 11 knots, being strongest near the main land. It also runs between Bio and Biquestte, but the stream extends only a very short distance outside the latter island.

The stream of flood continues its course along the main land, passing inside, and also very 'close outside, of the Razades, Basque, and Apple Island; but nowhere extending a sufficient distance off shore to be of use to ships beating to the westward much below Green Island. That part of the stream of flood which passies farther out towards Blc, and also that which passes between Bic and Biquette, runs at its full rate only until half flood, after which it becomes gradually weaker, turning to the N.W., round the west end of the island, and finally to the north and N.E., towards

The stream of fleod becomes weaker, and of less duration, as you proceed to the westward of the islands. Half way between Bio and the Razades, there is slack water for about an hour at the end of the ebb; after which a weak flood makes during the first quarter of that tide, at the rate of a quarter of a knot; and this is succeeded by the eddy flood at the rate of 1½ knote, or 2½ where edge of the Bank of Soundings, which comes from the westward, running in the Same direction as the ebb during the remainder of the flood tide.

The set of the latter part of the flood to the northward, past the west end of Bic, should be remembered by vessels weighing from the western anchorsge, or approaching the island with light winds, especially in the night, or thick weather.

The first of the ebb sets off shore, or from the southward, and this is more particularly remarkable at the eastern anchorage, but it only lasts for a very short time, after which the stream runs fairly between the felands, and along the coast to the eastward for the remainder of the tide. Its rate, in westerly winds, varies from 2 to 23 knots, according as it is neap or spring tide, but it does not run so strongly in easterly winds.

The South Bank is both to the eastward and westward of Bio and Biquette, and the assistance which the soundings on it may afford to vessels at night, or in fogs, will be evident." If vessels, on approaching these islands from either direction, will but use their leads in reference to the soundings on the chart, and attend to the directions given, they can scarcely run foul of Biquette, or its reefs, as has so often occurred in times past. The 30 failures edge of the South Bank is 7 miles north of Barnsby Island, and 14 miles which at the N.W. reef of Biquette. Between those points the edge of meshank continues in a slightly undulating line. Everywhere within that, the there is much lies with from 60 to 80 fathoms of line, quite over to the north bast. The 30 fathoms edge of the bank is 4 miles north of the N.E. Razade Bales, and is nearly straight from that mint eastward to off the N.W. reef of

Biquette. To the westward the Sourd Bank becomes gradually wider, its northern edge pursuing a direction from off the Razades towards the north-side of the Red-Islet Reef. There are nowhere more than 36 fathoms at low water upon it, until you arrive with 2 miles of the line joining the B extremitte of the Red-Islet and Green Island Reefs, and this increase in the depth of water is a valuable indication to a vessel approaching that dangerous pass in the weather, when the Green Taland

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Light cannot be seen. There is anchorage in 10 or 12 fathoms, with good holding ground, all along the south coast from Bic to Green Island.

BIC ISLAND TO QUEBEC.

BETWEEN Bic and the Razades the coast of the mainland is high and rocky, and, with the exception of the Alcide Rock, is free from danger to small vessels, that may stand close in; but ships should not stand in further than 7 fathoms at low, and 9 fathoms at high water, because of a long ridge of rocky ground extending 5 miles to clear every part of this ridge, keep Basque Island its own breadth open to the northward of the N.E. Razade.

The RAZADE ISLETS are two large rocks which bear from each other S.W. $\frac{1}{2}$ W., $\frac{1}{2}$ miles. The north-easternmost of these islets bears from the N.W. reef of Biquette S.W. $\frac{1}{2}$ W., nearly 15 miles, and is distant 1 $\frac{1}{2}$ miles from the main land to the south-ward. Between them and the shore there is no passage for vessels. W.S.W. from the N.E. Razade Islet, distant 5 miles, is Basque Island, about 1 $\frac{1}{2}$ miles long, and 200 fathoms wide. It is rocky, and there is no passage for ships between it and the shore there is no passage for ships between it and the spit runs out a quarter of a mile to the southward. Close off the end of this spit there is a long and narrow hole, 4 or 5 fathoms deep at low water, in which small Basque Island, and there is a reef of rocks to the N.W. and W. of its west point. On the western extremity of this reef, and about 600 fathoms distant from the island, a father, is a round rock which shows at half tide.

Apple Island is W.S.W. 1 W., nearly 3 miles from Basque Island. Between it and the shore there is no passage for ships, but its north side is very bold, there GBERN TOT ADD. TO ADD.

GREEN ISLAND.—The east end of this island is a long and narrow point of a rocks, always above water, and running out more than half a mile from the trees towards Apple Island, which is distant from it 24 miles in an E.N.E. direction. Half this distance towards Apple Island is occupied by reefs of slate which dry at small schooners, which run in between Green Island and the meiner of a sease for

Now water. In the routing, that a low the light and the main at high water. A. lighthouse stands on the north point of the island, nearly whiles from the eastern extremity of the rocks above water off its east point; and W.S.W. 1 W., 41 miles, from Apple Island. It shows a fixed light, 60 feet above the sea, and can be seen in clear wather, from the distance of about 12, 14, or 17 miles, according as the height of the observer's eye is 10, 20, or 60 feet. The tower is square, white, and 40 feet high. Behind the lighthouse, at the distance of about a quarter of a mile, and bearing S.S.E. 1 E from it, there is a white beacon, which, when brought in one with the lighthouse, will clear the tail of the Red-Islet Reef to the eastward.

The Green Island Reef, which is very dangerous, runs out from the lightbouse N.N.E. $\pm E$. 14 miles, to the 3-fathon mark. From its N.E. extremity it trends E. by S. till it joins the shoal water connecting Green and Apple Islands. Its N.W. aide is straight, running S.W. by S. from its N.E. extremity to the shore close to the westward of the lightbouse, off which it extends only 200 fathoms to the N.W. The mark. On the eastern side this reef may be safely approached by the lead to 7 or bottom with the hand lead until close to it. Half a mile out from the high-water its N.E. extremity, there are between 20 and 30 fathoms of water. At the distance of 1 miles, in the same direction, there is no bottom for a short space with 50 fathoms of 14 of 150 fathoms.

Deep as the water is to the northward of this dangerous reef, there is no other guide, in a thick fog when the light cannot be seen, but the soundings: yet it will never do to lose command of the vessel by rounding to, in the rapid ebb tide; (which ith good holding

and rocky, and, ressels, that may us at low, and 9 nding 5 miles to astern end. To en to the north-

r S.W. 1 W., 1 rest of Biquette ad to the south-W.S.W. from s long, and 200 reen it and tho island a sandy sund of this spit in which small e nothward of its west point. for the island.

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arrow point of, 4 from the trees N.E. direction. 6 which dry at 5 a passage for high water.

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is no other : yet it will tide, (which

BIC ISLAND TO QUEBEC.

sets upon the reef at the rate of 5 knots.) for the purpose of getting bottom in the usual way by the common deep-sea lead.

To clear Green Island Reef, in the day time and clear weather, keep the summit of the bigh land to the southward of Cape Arigade, (or the high land of Bic,) well open to the northward of Basque Island.

There is excellent anchorage in westerly winds under the Green Island Reef; it is the general rendervous of vessels waiting for the flood, to beat through between Green and Red Islands. But as the first of the flood comes from the northward, and sets on the shoals, vessels bad better not anchor with the light bearing to the weatward of S.W. $\frac{1}{2}$ W. or in less than 7 fathoms at low water. With that depth, on that bearing, they will be $2\frac{1}{2}$ miles from the light, one mile from the eastern edge of the reef, and the same distance from the shoal water to the southward. If they wish still more room, they may choose their berth in 9, 10, or 11 fathoms, and will find a bottom of stiff mud in either depth.

The S.W. end of Green Island is low and bare, and has a dangerous reef running from it to the westward above a mile; this reef which dries nearly the whole of its length, curres round to the northward, so that its outer edge bears S.W. by W. $\frac{1}{2}$ W. from the lighthouse. Its northwards is very steep, and the flood tide runs strongly over the tail of the reef towards Cacona, and the ebb the contrary. Mariners, therefore, should not approach it nearer than 25 fathoms, nor bring the light to bear to the northward of E.N.E. $\sqrt{2}$

About 34 miles 8.W, by S. of the south-west end of Green Island is Cacons, a remarkable rocky peninsula 300 or 400 feet high, which is joined to the main by a low marshy isthmus. At 14 miles south-westward of Cacons, and just to the northward of the stream of it, are the Percée Rocks, two clusters, occupying the extent of 14 miles. They lie about a mile from the main, and are nearly covered at high water. To the southward of them there is a narrow passage with 34 fathoms in it; and you will always go clear of them to the northward, by keeping in not less than 8 fathoms water.

RED ISLAND is a low, flat islet, of a reddish colour and without trees. A rocky bank or reef, 14 miles broad, extends 24 miles to the N.E., and is nearly dry in some parts at low water; but the islet is quite bold at its S.W. end. Anchorage in 10 fathoms, good holding-ground, may be had to the S.E. of this reef. This island is situated very nearly in the middle of the river, and bears from Green Island Lighthouse N.W. by W. 4 W., distant 54 miles. A lighthouse is erected on the island, and bears ared fixed light. Near the east end of Red Island Reef a buoy, painted red; has been laid down; it lies in 54 fathoms, with the south side of Red Island is one with the north side of Hare Island; and the beacon on Green Island can a little to the eastward of the lighthouse. Should you be suddenly caught to the northward of Red Islet Reef by a shift of wind to the eastward, so that you cannot fetch round the east end of the reef and gain the south channel, you may safely bear up and run to the westward, by giving the N.W. sides of Red Island, white Island, and Hare Island, with its reefs, a berth of 14 or 3 niles, on your port hand, in passing. When you are 10 miles to the westward of Hare Island, you may safely bear up and run to ward of Grand Island, bearing S. by W. 4 W., you will clear the S.W. end of The south channel. Observe, that by keeping Kamourasca Church just open to the island, want at the westward, be red may safely baul across for the south channel. Observe, that by keeping Kamourasca Church just open to the reef. There is an auchorage along the N.W. side of Hary Island, in 6 to 8 Stahoms reef. There is an auchorage along the N.W. side of Hary Island, in 6 to 8 fathoms water, but this is very close in.

"HARE ISLAND, do.-In the middle of this part of the river are Hare and White Islands with their reef, the Brandy-Pots, do., which divide this part of the river into We channels. They altogether coupy an extent of about 20 miles. The North Channel, thought that which is generally used, is clear, deep, and broad, and might be used, in integeously under proper circumstances, as in the case of scinit and strong N.T. winds; but with easterly winds and thick weather, or at night is must not be attempted, as there are no leading marks, and the depth is too great and irregular to afford any guidance, besides the want of shelter or anchorage on the north shore. The South Channel, between the resis and the south shore of the river is generally preferred, as the tides are not so strong, nor the water so inconveniently deep, as in the other channel; besides which it has good anchorage in every part, and a sufficient depth of water for any ships. We will begin in our description of this range of islets and reefs at their western extremity.

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Hare Island Bank is entranced from the western end of Hare Island by a channel half a mile wide, in north side of the Sector of the sector of 9 miles, and 14 miles broad, with soundings over, is a sector of 9 miles, and 14 miles broad, with portion always or would is covered with grass and bushes. All along the south approach it may be built there is good antohorage in 7 fathoms, and 'un yessel should by keeping Kamourasce Church just open to the westward of Grand Island, bearing S. by W. W.

The south-west end of Hare Island Bank is the field by a red buoy, which lies with Kamourasca Church a little open to the south of the large island of Kamourasca, bearing N.E. $\frac{1}{2}$ N. At the east end of the bank there is a knoll of 12 feet marked by ared buoy, which lies with the west end of Hare Island, bearing N.W. $\frac{1}{2}$ W., and the south side of Hare Island and the middle of White Island in one. To the east the south side of Hare Island and the middle of White Island in one. To the east the south side of Hare Island and the middle of White Island in one. To the east the south side of Hare Island and the middle of White Island in one. To the east the south side of the there is a white buoy. This Middle Knoll is a small patch of roots, upon which there are 10 feet at low water, with 4 to 8 fathoms close-to all of the Brandy Pots, the latter bearing N.W. by W. $\frac{1}{2}$ W., and the south point to the N.W. point of the Brandy Pots, the latter bearing N.W. by W. $\frac{1}{2}$ W., and the south point of the Brands is least by $\frac{1}{2}$ W., $\frac{1}{2}$ miles.

Pilgrim Shoal to the southward, Ts Green Island Lighthouse, just shutting in with the S. W. point of the island, N.E. 4 E. Here Island is about 7 miles leng, and about a mile broad. On its southern side, and near its eastern dominy, we some isless named the Brandy Pots, on the southern highest, being about 160 fest high, and is covered with trees rat its S. W. point thero is a good spring, but it dries, in very hot weather. A little to the eastward of the Brandy Pots, and sound of the mat by stater by a chilin of rocks, is the Noggin, and here island is a reaf of rocks, which drives the low water is is little to the eastward of the stand Pots, and sound of rocks, which drives at low water is is little to the eastward of the stand Pots, and sound of rocks, which drives at low water is is low to the set and of and therefore not in the way of shipping, and the enging in 7 fathoms you will always to also a source of the source of the state of the source of the state of the state of the state of the source of the state of the state is a reaf of rocks.

To the westward of the Brandy Potence south side of Hare Island has a flat of fard ground extending from it, 4 mile stends, and about half a mile in breadth. The whole of this side of the island is under the rocks. From the cast and of Hare Island & Bege of rocks extends to the north eastward for

abouts miles, and arise for the greater part of that distance. This ridge is extremely dangerous, because there is no mark to clear it, and the flood-tide sets strongly upon and ever it into the North Channel. Near the middle of the reof is the White labet, which is wanth low, and covered with trees. On the N.E. and of the reof, the north of Cacons bears S.E. J. E. Vessels should come no nearer to it than 10 fathoms at low water : here there is generally, a black buoy. The passage between the N.E. and of the reaf and Bed Islet is 6 miles wide, and free from danger. ription of this

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BIU ISLAND TO QUEBEC.

THE PILORIMS are five islets lying at the distance of 14 miles from the shore on the south side of the South Channel, with no passage between. They are about 44 miles in extent, and are connected together by reefs, which dry at low water. The largest islet is also the highest, being about 300 feet high, and partially covered with trees: abreast of it is anohrange for amall vessels, in 34 fathoms water. Outside the Pilgrims shoal water of 2 fathoms extends to the distance of about half a mile, and thence it extends to the eastward and westward parallel to the shore, from which it is distant fully 3 miles. To the eastward of the Pilgrims this shoal water takes the name of the Bane du Loup, and to the westward of those islands the Bane e St. Andre.

The Pilgrim Shoal is long and narrow, and runs for the distance of 4 miles in a direction nearly parallel to the shore, from which it is distant guly 2 miles. On the northern side there is a black buoy, lying in 44 fathoms, with the west ends of Hare and Great Pilgrim Ialands in a line bearing N.W. 4 W, and S.S.E. 4 E. The eastern end of the shoal, in 3 fathoms, lies with the N.E. end of the trees of Hare Island and the eastern side of the Brandy Pots in one, bearing N. 4 E. On this shoal there are 34 fathoms. The leading-mark through, between Pilgrim Shoal and Hare Island, is the north side of Burnt Island just open of Grand Island, bearing S.W. 4 W.

THE KAMOUBASCA ISLANDS He nearly 6 miles to the westward of the Pilgrims, and 24 miles from the shore. Behind them are the church and estilement of the same name. The islands altogether occupy a space of about 3 miles; the two northern named Grand and Burnt Islands are steep-to on the northern side, and must be approached with care. Off this part of the coast there is good anchorage, with the Church of Kamourasce just open to the westward of Drow Island. Here, you will anchor well cheltered from the prevailing winds, but exposed to the N.W.; the depth is 7 fathoms, stiff mud, at a short distance from the 3-fathoms edge of the bank. Largo vessels withing for more room may anchor farther out anywhere to the westward.

From the Kamourasca Islands a shoal bank lines the coast to the westward, which may be approached to the depth of 7 fathoms up to the buoy on the shoal of St. Ann. From Orów Island Cape Diable bears S.W. & W., distant nearly 3 miles; from the cape, in the direction of Crow Island, a rocky reef runs off, the easternmost part of which is covered at a quarter-flood. At 23 miles above Cape Diable is Point St. Denis, the southward of which is a little cove, having good riding opposite at 14 miles from the shore, in from 6 to 8 fathoms.

The land from St. Denis runs 5 miles south-westward to Point Ouelle, and is all low, with rocks before it. From Point Ouelle a bank runs off, and lines the shore for a. distance of 8 miles to the westward, as far as Point St. Roque, and extends off the coast fully 4 miles; over this sand and mud flat are scattered many large stones. Just under Point Ouelle is the river leading up to the church and extilement, which will admit vessels drawing from 10 to 16 feet water. The coast between Points Ouelle and St. Roque bends inwards, forming the Bay of St. Ann, which will alm over by reason of the sand and mud flat previously mentioned; as the thir is shown in the N.W. from Ouelle Point, is a black buoy, and at 4 miles N.N.W. from St. Roque, is a lightvessel, both of which must always be left on the port or south side when bound upwards.

THE NORTH SHORE FROM THE SAGUENAY TO COUDERS ISLAND.—From the Seguenay to Coudres Island the northern shore of the river is bold and mountainous. In most parts the granitic hills rise intracticely from the river, forming steep precipitous headlands. Near the entrance of the Seguenay these hills are about 1,000 feet high, but those of the Eboulemens attain an elevation of 2,547 feet above the tidewaters of the river.

At 64 miles S.W. of Lark Point is situated Cape Basque, and about 14 miles to the northward of the cape lies Echafaud Islet; a small rocky islet in the mouth of a cove ; it bears 5 miles W. 5 S. from the S.E. extreme of Lark. Rest, the sheal of which extends as far as this place. Basque Road is a well-sheltered anchorage lying off this; the best position being the Echafaud bearing W.N.W., rather less than a mile distant, in 10 or 11 fathoms, over clay bottom.

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The Bay of Rocks is about 21 miles south-westward from Cape Basque, and affordsshelter only to boats. At 61 miles S.W. 1 S. of Cape Basque is Cape Dogs, which is quite bold and high ; and similar to it is Cape Salmon, which is situated S.W. 1 S., 94 niles distant from it. About 14 miles farther to the westward is Port Salmon, which, like Port Parsley and Shettle Port, to the eastward, are only boat harbours. From hence to Quebec the settlements are nearly continuous. At 5 miles S.W. by W. 1 W. from Cape Salmon is situated Cape Eagle, which is of the same character,

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MURRAY BAY .- This bay lies at 64 miles W. by S. from Cape Eagle, and is 14 miles wide, and nearly as deep. A rapid and unnavigable river falls into the head of it; and the bay is nearly all dry at low water, except the shallow channels leading to It; and the pay is nearly all dry at low water, except the shallow channels leading to the river. The anchorage is close under the high rocky shore, a little to the eastward of the bay; with Point Gaze, its west point, bearing S.W. $\frac{1}{2}$ W. : Point Pique, its east point, W. by N., about 400 fathoms; and Point Hau E.N.E. $\frac{1}{2}$ E. Goose Cape lice $\frac{9}{2}$ miles S.W. $\frac{1}{2}$ S. from Point Gaze; it is bold and rocky, and forms the western extremity of Mal Bay, while Point Gaze, on the west of Murray Bay, forms the eastern extremity. Mal Bay is formed by a alight incurving of the court and choole extend a quarter of a mile of shore and there is no cord and propagate

coast, and shoals extend a quarter of a mile off shore, and there is no good anchorage in it.

At 3 miles W. by S. from Goose Cape is situated Cape Martin. Between these capes the shore is very slightly indented, and the shoals dry out about one quarter of a mile, that is, nearly to a line joining the two capes. About half way between them, but rather nearer Goose Cape, a stream descends a ravine, and off the mouth of the latter there is a very large boulder stone named the Grosse Rock. Ancherage may be obtained in 7-fathens, with Grosse Rock bearing M. by W. : here you will be sheltered from the tides, which run past Goose Cape with great rapidity, and occasion at times a strong

COUDRES ISLAND .- This island is about 51 miles long and 21 wide. The east end of the island bears from Cape Martin S.W. by S. 24 miles. Rocks and shoals line its south shore, and extend a mile out from it, as they do also off its N.E. point; but the north side of the island is bold for about 2 miles to the eastward of Prairie Bay. Prairie Bay lies near the centre of the north side of Coudres Island, and off Point Prairie, its west point, a shoal, covered at high water, extends 620 fathoms to the N.W. from high-water mark, and shelters the bay from S.W. winds. The line of Notre Dame Church, in one with the N.E. end of the low clay cliff of Point St. Joseph, passes 100 fathoms within the 3-fathoms north extreme of this shoal ; but if the church be kept on with the N.W. end of the same cliff, it will lead clear of the shoal in deep water. The cross mark for the north point of the shoal is St. Pierre Church and the east side of St. Paul's Bay in one.

THE NORTH, MIDDLE, AND SOUTH CHANNELS TO QUEBEG.

THE NORTH CHANNEL lies to the northward of Condres Island, and runs along the northern shore of the river; and on the south side of it is the line of shoals which extands from the west side of Coudres Island to Burnt Cape Ledge and the Bayfield Isles. It is a fine channel, and although not so convenient for the purposes of navigation as the South Channel, which is the most generally used, still it may be of service at times, as it frequently remains open, or free from ice, some time after the South Channel becomes unnavigable in the fall of the year.

The eastern entrance to this channel is between the reef which extends a mile to the E.N.E. of the N.E. end of Coudres Island and the shoals off Eboulemens Bay, where there is a large settlement. You may clear the shoals, on each side of this part of the channel, by keeping one mile from the northern shore, or, not approaching it nearer than 10 or 12 fathoms water; the mark for clearing the shoals westward of Cape St. Joseph being Cape Goose and Cape Martin in one E. by N. Br. Pavi's Bar, opposite the west end of Coudres Island, is shoal and rocky; it has

a great ripple at some distance off, around Cape Corbeau, its eastern side. Its western point named Gape Labaie has shoals of mud and large stones extending off it for three-quarters of a mile, and which also extend for 111 miles to the south westward to an

AND SOUTH CHANNELS TO QUEBEC.

equal distance off shora, to clear them off Labsie, you must bring the extreme western Capes Rouge and Gribanne open to the southward of Cape Maillard, S.W. 1 W.

After clearing the N.W. reef of Coudres Island by the before mentioned mark, there is a fine straight channel from 14 to 24 miles broad, entirely free from danger, and extending 18 or 19 miles to the Burnt Cape Ledge. The depth does not exceed 17. fathoms, and there is good anchorage towards the sides, out of the strength of the tides, which run stronger and with more sea in this long and open reach that in the South Channel.

The southern side of this channel is a bank, extending, as before mentioned, from Coudres Island to Burnt Cape Ledge. Its edge is nearly parallel with the coast, and is easily followed.

The Neptune Rock is nearly 15-miles S.W. from Condres Island, within the edge of this southern shoal, and is easily recognized.

The North Shore is high, and, as previously mentioned, is lined with shoals. At 14 miles S.W. of Cape Maillard is a landing place named Abattie, 2 miles to the southwest of which is the Sault au Cochon, where the shoals, which line the shore, cease. There is only one landing place, La Gribanne, between Abattie and Cape Tourmente, a distance of 11 miles. To the westward of the Sault au Cochon the mountainous and uninhabited coast is quite bold, the high and precipitous capes, of various granitio rocks, being washed by the river as far as Cape Tourmente, where the Seminaire Bank commences, and the mountains trend to the N.W. away from the shore.

The Burnt Cape Ledge, nearly opposite Cape Brulé, from which it is distant 14 miles, is composed of slate rocks, and is very dangerous. Its S.W. end is always above water, and bears S.W. 1 W., 41 miles, from the Neptune Rock.

The Brulé Banks are to the westward of the Burnt Cape Ledge, and are joined to it by shoal water. Their northern edge is only 600 fathoms from Cape Brulé, and the depth of water between them is 7 to 10 fathoms. Between their N.E. point and Burnt Cape Ledges there is a bay, but it has no passage through to the westward, and must therefore be avoided. On the N.E. point of the Brulé Banks, in 3 fathoms, the west end of the Burnt Cape Ledge is in one with the east side of Heron Ialand, bearing S.E.

The Traverse Spit lies between the Brulé Banks and the eastern point of Orleans Island, its N.E. part forming, with the S.W. part of the Brulé Banks, the Eastern Narrows of the North Traverse, which is only 250 fathoms wide; 4 fathoms can be carried through within this breadth. The Traverse Spit and the Horse Shoe Bank to the N.W. of it, as well as the Brulé Banks, dry, for the most part; soon after halfebb, and thereby greatly lessen the difficulty of the passage.

Four fathoms can be carried into the Traverse, and the mark for leading through the Eastern Narrows into it is, the S.W. point of Reaux Island and Point St. Vallier in one, bearing S.S.W. 4 W. From the Eastern Narrows the Channel runs S.W. by W. close along the southern edge of the Traverse Spit, leaving all other shoals to the southward. At the distance of 24 miles we come to the Western Narrows, which are also 500 fathoms wide and 45 fathoms deep. The Western Narrows are between the Traverse Spit and the West Sand, a sand which is 14 miles long, and has 7 feet least water upon it; its eastern extremity is; or was, marked by a chequered buoy. The mark for leading through these narrows, after having arrived as far as the cast end of the West Sand, (which will be when Berthiggtfurch is just open of the S.W. point of/Reaux Island, bearing S. 4 W.) is Points St. John and Dauphin, on the south side of Orleans Island in one, bearing S.Y. 4 W.

of Orleans Island in one, bearing S.W. + W. Having cleared the Western Herrich, throw is a fine clear passage between Orleans Island and the banks of Medium Brind, not less than two-thirds of a mile wide, and with good anchorage all the pay to the South Channel at Point St. John, a distance of nearly 7 miles.

The channel to the northward of the Island of Orleans has water enough for the largest ships, but it is too narrow and intricate for general use. There are also no leading marks which could be made available.

THE MIDDLE CHANNEL lies between the shoals and islands which form the northern side of the South Channel, and the long line of shoals and reefs, which extend from Condres Island to Reaux Island, at the east end of the Island of Orleans. The cutrance, to the north of the Seal Islands, has not more than 3 fathoms at lew

e, and affords logs, which is S.W. $\frac{1}{2}$ S., 9 $\frac{3}{4}$ almon, which, bours. From V. by W. $\frac{1}{4}$ W.

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water; but having passed this shallow part, there is depth and reom enough for the largest ships, until we arrive at the Bayfield Islands, where the Middle Traverse communicates with the South Traverse by various narrow passages between the tides set strongly through them; and though it would be possible to take even the largest ships up to Quebec by the Middle Channel, were it requisite from any cause to do so, yet they are too intricate and difficult for general navigation.

THE SOUTH TRAVERSE.—Between Foint St. Roque and St. Thomas the south shore of the St. Lawrence is low, but gradually rises into wooded ridges of considerable elevation at the distance of a few miles back from the river. All along the south able elevation at the distance of a few miles back from the river. All along the south st. Jean, falet, St. Ignace, and St. Thomas, where supplies may always be obtained. and are distant nearly 7 miles from each other, the last being opposite to Goose Idland. Church of St. Beque, St. Jean, and List stand low down near the water a edge, and are distant nearly 7 miles from each other, the last being opposite to Goose Idland. Church of St. Jean, i. and the River Trois Saumons a mile farther in the same direcwater, and there are 12 feet water in their entrances at high water, scring-tides. At stands about three-quarters of a mile back from Gape St. Ignace, which rooky peninsula, which will be easily recognized." At 54 miles to the westward of the the River Sud, and nearly roposite the water and is the back for falle into the St. Ignace lies that of St. Thomas, which stands oh the westward of the falle into the St. Ignace by a cascade of 30 feet just, within its entrance.

In this extent of coast shallow water extends out to a considerable distance, and is generally called the South Bank. The part of this bank which projects 4 miles out from Point St. Roque to the lightvessel at the Traverse, and is known by the name of the Sheal of St. Roque, is extremely dangerous, being composed of a thin povering many parts does not exceed 9 or 10 feet.

many parts does not exceed 9 or 10 feet. The Narrows of the South Traverse lie between these shoals and the Middle Arrows of the South Traverse lie between these shoals and the Middle N.W. by.W., distant 34 miles. The harrowest part of this channel is pointed out by huoy* on St. And's Shoal; these must be left on your port hand going up. The utmost part of the river, and the currents are various, irregular, and strong. In the middle is generally about a faile wide, with 8 to 14 fathoms on it; this was formerly named many good anchorage.

At nearly a mile W: by S. of the lightvessel is a red buoy on the Middle Ground, to be left on the starboard hand; and nearly opposite is a black buoy on the Shoal of St. Roque, a be left on your port hand; and ? miles S.W: from this is a black buoy, to be left on the port hand, opposite to which is a red buoy on the S.W. end of the latter buoys to the lightvessel, a distance of 3 miles, and are little more than one buoy-lies searly 23 miles S.W. is from the last black buoy, and is to be left on your porthand; there is also a black buoy on a 18 feet patch, of St. Ban, 2 miles uoy: on the Traverse Fatch, of 3 fathoms, to be left on your starboard black -answhite there is plenty of water on the north side of the last black buoy, and is a red black and it is a black buoy on a starboard black -answhite there is plenty of water on the north side of the last, on which is a revolving '.T. pit and the north side of the Stone Fillar, on which is a revolving '.T. pit and '.T. and '. T. pit and '. the starboard the store of the

light. • The Piller, "The Avignon, a half tide rock, round on the top, and dry at threeguarters ebb, fies at the distance of 2 cables' length, S.E. from the bedy of the Stene southward of the large reef off Goose Island, leads clear to the southward of it. The * By a recent official notice, all the buys on the south bank are said to be the sterior of the north banks red, with a few exceptions.

AND SOUTH CHANNELS TO QUEBEC.

Pilier Boisé, or Woody Pillar, a high round rock, with trees on the western part of it, lies at a mile and a quarter to the west of the Stone Pillar. At half a mile to the east of it is a rock named the Middle Rock, with a beacon upon it, dry at half sebb. To the northward of the Pillars are the Seal Islands and Reeds; having an extent of nearly 4 miles N.E. by E. and S.W. by W. In a considerable extent the rocks which form these reefs are dry at low water. The bank on which they lie is extensive on the N.E. towards Coudres Island. At 14 miles S.W. 4 W. from the Stone Pillar, is the commencement of a ledge of high rocks, named the Goose Island Reef, extending thence 34 miles S.W. 4 W., the western part of which is composed of rocks, always above water, and steep to on their south side. There is a narrow ohannel, only fit for small craft, between it and the N.E. end of Goose Island, te which it lies parallel at the distance of a long half-mile.

On the Stone Pillar there is a light revolving every 11 minutes. The building is 38 feet high, and the light being shown at an elevation of 68 feet above the water, can be seen about 13 miles off.

GOOSE ISLAND is connected by low meadow land to Grane Island, the whole of which occupies an extent of 11 miles in a direction of N.E. § E. and S.W. § W. From the bonth side of this low land a shallow flat runs off nearly a mile, and nerrows the channel very much as you spproach the Beaujeu Bank, on each end of which a white buoy is now placed. The eastern buoy lies with Quion Island. N.W. by W. W. and the western buoy with the farm-house on Crane Island N. by W. A farmhouse may be seen on Goose Island, to the eastward of which, and close to low-water mark, there is a large rock named the Hospital Rock. Two miles and a half to 'the westward of this rock is a long reef, dry at low water, but it is so ut of the fairway, and close along the island. The north side of Grane Island is in a good state of cultivation. On drawing toward it you will see a farm-house on the east end. To the S.E., at half a mile from this house, is the edge of the Beaujeu Bank a narrow sheal, which extends 2 miles thence to N.E. § E., and has, on its choalest part, only 6 feet at low water. It is constrated from the flat that rune of from the main by a channel, having 4 to 5 fathoms in it, but just within the west entrance of this channel lies a knoll, of only 12 feet. The ghannel between Beaujeu Bank and the eastern end of Orane Island has 4 to 5 fathoms in it; but its breadth coarcely exceeds a functor far mile. Two or d buoys are placed on the N.V. side of this channel, opposite to the white buoys on the Beaujeu Bank.

BAYFIELD ISLANDS lie to the west of Crane Island. Exclusive of a number of small islets and rocks, the principal are Cance Isle on the north side of Crane Island; the Margaret Island; next westward is the Grosse Island, and the Isle du Faux, and the westernamost is Madame. The whole of these islands, from Crane beyond to the westernamost is Madame Island, occupy a space of 14 miles. There are here well passages between the isles, but they are too intricate to be understood without reference to the ohart.

A reef of rocks extends half a mile from the western end of Crane Island, and dries at low water; and a shallow spit runs out 14 miles farther we ward, on which a'red buoy is placed, with St. Thomasse Church bearing St. E. 4 S. Grosse Island is inhabited, and is 2 miles in length, lying N.E. by E. and S.W. by W.

Kaux Island is about 100 feet high, and rather longer than Grosse Island, but narrower. Madame Island is somewhat smaller than Resux Island; both are covered with trees. A rock reef extends S.W. by W., 24 miles, from Madame Island, and dries for the most, latr, at low water, and ships ought not to go nearer to it than 7 or 8 fathoms water. The mark to clear it is, some part of Resux Island kept open to the southward of Madame Island. The westurn extremity of the reef lies with St. Vallies Ohureh bearing S. E. A reed buoy now marks the western point of this reef, which here divides the vestern extreme of the north from the south channel. A Grosse Island is the quarantine station, the entrapice to which lies between the

At Grosse Island is the quarantine station, the entrance to which lies between the island and Margaret Island, and is marked by a red. Buoy on the south, and a chequered buoy on the north side; your course in from the South Channel is about N by 2

N. by A. POINT ST. THOMAS on THE SOUTHERN SHORE. Point St. Thomas is low, and 3 week W. 1 N. from the envence of the River Sud.

From the land of St. Thomas a dat, or mud-hank, partly dry at low water, named the Bank of St. Thomas, extends more than half way over toward Crane Island. Its

nough for the ddle Traverse between the tages, but the take even the a any cause to

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The Wye Rocks lie immediately to the north of the Point of St. Thomas. They are separated from the western part of the Bank of St. Thomas by a channel nearly a long in a S.W. direction, and have 4 feet least water at their western end. The clearcables to the northward of the rocks, and also along the northern edge of the Bank of St. Thomas, in 4 fathoms.

At 54 miles W.S.W. 1 W. from Point St. Thomas is situated Berthier Church and Village. The intermediate shore is rocky and rather low, with shoal water extending Berthier, a tide harbour for the river craft, and dry at low water.

Belle Chase Feland lies parallel to the shore, and its west point bears W. by N., a mile, from Berthier Church, and not more than 24 fations can be carried through greywacke rocks. North from the centre of the island, and at a distance of 110 between it and the island. A shallow bay lies within the island to the S.W., and the small river Belle Chasse.

At 24 miles W. 18. from Berthier Church is situated Point St. Vallier, which is remarkable as being higher than any other point below it on the south shore, above the Traverse. At 34 miles W. by S. from Point St. Vallier is situated Point St. distance to the N.E. from both these points, but especially the latter. On the shore from the extremity of the latter, stand the ohurch and village of St. Vallier. The three-quarters of a mile to the N.E. from Point St. Michel. At 2 miles S.W. by W. Bank of St. Vallier fills the whole bay between these points, and extends nearly from for St. Michel stand the Village and Church of the same name, and at 20 miles W. by S. Durantaye, a mile to the westward of the church, shoal water extends only 100

The Beaumont Reefs commence from Point Durantaye, extending more and more from the shore until opposite Point St. Lawrence, on the Isle of Orleans, where their northern edge, in 3 fathoms, is nearly three-quarters of a mile off shore. They extend less from the shore as we proceed farther to the westward, and may be considered to cease about a mile to the westward of Roy's Mill, the shoal water there reaching only and their northern edge is steep with very deep water close to. The warning by the proached with great caution. A black buoy is now placed on the northern edge of the Beaumont Reefs, with St. Lawrence Church heaving Northern edge of the

Beaumont Reefs, with St. Lawrence Church bearing North. At 5 miles W.S. W. of St. Michel stand Beaumont Church and Beaumont Mill, and fall. At 64 miles from Beaumont Mill is situated Roys Mill, where there is a water-Between Point Levi and Roys Mill the shoal water nowhere extends above a quarter of a mile from the shore. . Off Point Levi a reef extends 180 fathoms to the northand west, or 5 fathoms from between north and east:

THE ISLAND OF ORLEANS, —This island is 18 miles long, and its extreme breath is 44 miles. It rises gradually from generally steep hanks to the central elevation; estimated at 330 or 400 feet above the water. It forms by its southern shold the northern side of the South Channel, from oppeatie Madame Reef to within 8 miles of Quebec, a distance of nearly 14 miles. Its northern shore is flat and muddy, with a reef of rocks running along it; but, on the southern side, it is fine sand, with a few pointed rocks rising up here and there. The Churches of St. John and St. Lawrence stand near the southern shore, the dis-

and well sheltered cove, where vessels outward bound commonly anchor in 10, 12," or

AND SOUTH CHANNELS TO QUEBEC.

14 fathoms, previously to taking theirfinal departure; the ground cannot be considered good, but it is well sheltered from easterly gales, and the river here is bold on both sides, and is about 14 miles wide. On the western part of the point is a cluster of neat houses, where accommodations of all kinds may be obtained.

About a mile eastward of the west end of Orleans are the Marand Rocks, running out 24 cables' length from the shore; 'they have 6 to 9 feet water over them, and 10 fathoms in sailing past them. At the S.W. part of the island are other rocks, which dry at low water; these are close to the fand, and may be safely passed in 10 fathoms water. The Church of St. Peter is situated about 4 miles from the western point, and nearly opposite to the Falls of Montmorenci.

QUILING.—The Basin of Quebec is about 14 miles wide from Point Levi across to the shore of Beaufort, and about 8 miles long from the west end of Orleans to the India. Wharf at Quebec. The Harbour of Quebec extends from off the River St. Charles up to the Chaudidies River, a distance of 5 or 6 miles.

The Port of Quebec comprehends all the space between Barnaby Island and the first rapid above Montreal. Information respecting quarantine is given to the commanders, of vessels by the pilots when they first come aboard; and a book containing the bylaws and harbour regulations of the Trinity Board is delivered to each vessel on her arrival by the harbour-master.

The City of Quebecie situated on Cape Diamond, and it is difficult to imagine anything more beautiful than the view which suddenly bursts upon a stranger excending the St. Lawrence and entering the Basin of Quebec, as the vessel opens out the Falls of Montmorenci on the one haad, and the City of Quebec on the other.

The navigation of the River St. Lawrence is closed by the ice from about the 25th November to the 1st May. The navigation mometimes, although rarely, closes by the middle of November, and remains closed to the th or 10th of May; at others it would be possible to invigate it till near Christmas, and things have arrived in the middle of April; but these are extraordinary seasons, and the period first named is that during which the navigation usually remains closed. The river seldom or never freezes below Quebes, and only occasionally opposite the city; but it is full of heavy ice, moving up and dwm with the tides with irresistible force. There is generally, but not always, a bridge of packed ice formed 5 or 6 miles above Quebec; and higher up, as far as Lake Ontarlo, the St. Lawrence is everywhere frozen across, excepting in places where the europhit werv strong.

euront is very strong. The River St. Lawrence extends from Quebec to the city of Montreal, from which it is distant 155 miles, and from the Island of Bib 90 feagues; it is navigable to the Rapids of Richelieu for vessels of 600 tons; the impediments are few, and those very easily surmounted.

From Quebec, the shores of which are exceedingly lofty, the hills gradually decline, and become less elevated, until you reach the River St. Maurice, where the tide entirely ceases: here, on the north side of the river, stands the town of the Trois Rivières, or Three Rivers, beyond which, at the distance of 38 miles is the Richelieu Rapid, at the entrance of which, and above the Lake St. Pierre, is the form of William Heury, formerly named Sorel. Lake St. Pierre is 22 miles long, and in some places nearly. 8 in breadth; but its western part is encumbered with numerous islands, which divide it into several channels, two of which are navigable: but that on the south is the cleanest, deepest, and best, and is pointed out by a lightvessel and buoy. The banks here are low, and shelve off to a considerable distance, leaving only a narrow channel. of from 12 to 18 feet water: the river here is obstructed by masses of rock, and at the ebb-tide the descent of the rapid becomes so great, that the utmost caution must be taken to pass it; ressels, therefore, should wait for, a proper time of tide, and, if necessary, they may anchor at the bottom of the rapid, until a proper opportunity occurs.

From hence to Montreal the banks are of moderate height, and uniformly level. Montreal is estimated as the most fertile part of Lower Canada: its port is convernient, and situated on the S.E. of the city. The harbour is not large, but vessels drawing 15 feet water can lio close to the shore, near the Markot Gate, and both deliver and receive their emgées with expedition: the depth is generally from 3 to 41 fathoms: its gneat inconvenience arises from the Rapid of St. Mary, which is about a mile below, whose current is sometimes so powerful, that without the benefit of a N.E. wind, or a steam boat, vessels may be detained for weeks, within two miles of the spot where their freight should be delivered.

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TIDES IN THE RIVER ST. LAWRENCE.

Between Quebec and Montreal steamers regularly ply; and ships bound to Montreal with cargoes, may engage steamers for towing at Quebec. There is a regular rate of charges for towing ships, according to their draught of water and breadth of beam, for the whole or any intermediate distance that may be required.

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TIDES IN THE RIVER ST. LAWRENCE.

On the days of full and change, it is high waterain the river as follows:--Near Cape de Monts on the north side, at 1h. 52m. In Manioouagon Bay, at 2h.; here springtides rise b2; and nears 7 feet. At Bersimis Point, 2h. On the south coast, near Cape Chath, the time is 14h. Here spring-tides rise from 12 to 14, and nears 8 feet. Off the river Matan, the time is 2h.; springs rise 12, and nears 8 feet. At Grand Metis Bay, the Sum is 2h. 10m.; springe rise 13, and nears 8 feet. Off shore hereabout, the ourrent on the surface always runs downward, from 13 to 23 knots.

The time of high water at Green Island, is 2h. 45m.; spring tides rise 16, and neaps of feet. In the middle of the river, off the eastern part of this island, the flood from and thus below the Isle Bio, the stream sets constantly downward, at the rate of 1[±]/₂ to 2[±]/₂ knots as before mentioned.

At Kamburasca; 4h.; at the Brandy Pote, 3h.; in the Traverse, 4h. 80m. Off Point St. Roch or Roque, 4h. 50m. Here it ebbs 62 hours, and flows 53. At the Isle Bio neap-floods are here very weak; and, with westerly winds, none, are perceptible. A Point and Bio. The ebb-stream from the River Saguenay sets with great force Islet, there is little or no flood, but a great ripple. All the way hence to Quebec, the wind, and by no means to be depended on, as to its running, anywhere below Hare Island, where there is a regular (?) stream of ebb and flood.

When, and up no means to be dependent on, as to be running, anywhere below Hare Island, where there is a regular (?) stream of ebb and flood. Between Barnaby and Bic the stream of flood sets in from the N.E. at the rate of about 2 knots; then fair through the channel until last quarter flood, when it sets to the N.W. by the west end of Bic, and then gradually to the N.E. as the flood slacks. The whole of the ebb, both to the eastward and westward of the island, sets strongly strong to the N.E., without any regular change. In the summer and autumn, as well flood; but, until the upland waters have all run down, and the great rivers have this current always runs downward.

From Bic to Green Island, on the southern side, the stream of flood is nowhere peroptible at a mile and half from the islands. The obb, or rather current, comes northward of Red Island, and joining the eddy-flood, before explained, increases the constantly downward course of the stream. Here it always runs in a S.E. direction, Red Island. Between Red Island and Green Island, the ebb runs from 4 to 64 knots. for, on the north side, the flood is pretty regular, and the ebb runs from 4 to 64 knots. for, on the north side, the flood is pretty regular, and the ebb runs from 4 to 64 knots. for, on the north side, the flood is pretty regular, and the ebb rune from 4 to 64 knots. for, on the north side, the flood is pretty regular, and the ebb rune from 4 to 64 knots. for, on the north side, the flood is pretty regular, and the ebb rune from 4 to 64 knots. for, on the north as a blo and Biquette. To the southward of Bic, spring-floods run sets strongly between Bic and Biquette. To the southward of Bic, spring-floods run southward of Bic, with a seant wind from the northward, must steer W. by N., to whence they proceed for Green Island.

The first of the flood, spring-fides, sets from the N.E. along the north side of Green Island, and strongly towards the wost end of it; then Street toward Cacona. In the middle of the channel no flood is percented. At two miles to the southward of Red Island it sets strongly to the N.W. and the ebb contrary. During

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DIRECTIONS FOR SAILING UP THE RIVER.

spring ebbs, the meeting of the N.E. and S.E. tides, near the middle of Green Island, eauses very strong ripplings: and, to the eastward of Green Island, the S.E. ebb comes strongly about the east end of Red Island; here meeting, the N.E. tide sauges a high rippling, much like broken water in strong easterly winds: but in neap-tides, the floods are very weak, and in the epring of the year there are none. This renders the part of the river now under notice more tedious in its navigation than any other, unless with a free wind.

From the west end of Green Island a regular stream of flood and ebb commences, which runs five hours upward and seven downward. At the Brandy Pots it flows tide and quarter-tide; and, above the Percée Rocks, on the south shore, it sets regularly up and down, N.E. by E. and S.W. by W.

From the Brandy Pots, the stream of flood sets toward Hare Island ; and near the west and N.W. with great strength, through the passage between the island and ahoal. Above Hare Island, the flood sets regularly up the river; the ebb bontrariwise. From the Pilgrims up to Cape Diable the flood is very weak, but it thence increases up to the buoys of the Traverse, where it runs at the rate of 6 knots. The first of the flood sets towards the English Bank and Hare Island Shoal, when abreast of the greater island of Kamourascs, and the ebb contrary. In La Prairie Bay, on the north side of the Isle aux Condres, the time of high water is 4h. 25m., and here it flows six houre ; the ebb stream continues an hour and a quarter after low water, that the flood threat quarters of an hour after high water.

The tides in the North Channel being half an hour earlier than in the Southern channels, the first of the flood sets strongly on the St. Roque and St. Anne's Banks; and the first of the ebb sets strongly across the shoals in the middle of the river. In the Traverse, spring-tides rise 18, and neaps 11 feet. At the South Traverse, on the full and change, the tide on-shore flows at half-past

At the South Traverse, on the full and change, the tide on-shore flows at half-past four, but it continues to run to the westward until six o'clock, when regular in the ohannel. With westerly winds there is a deviation, but it is certain that the tide on shore rises 3 feet before the stream bends to the westward; and this allowance must always be made in every part of the river. In the Traverse, the first of the flowd sets from N.N.E.; at the buoys, at a quarter flood, it takes a S.W. direction, and when the shoals are covered at half-flood, at the Seal Reefs, it sets until high water S.W. by W. The ebbs in a contrary direction run with great strength; frequently in the spring of the year at the rate of 6 or 7 knots.

Between the Piliers, or Pillars, it is high water at 5h. The ebb here runs 6 hours and 50 minutes; the flood 6 hours and 25 minutes. Both streams continue to run an hour after high and low water by the shore. From Orane Island the flood sets fair up the river, but the first of the ebb off L'Islet sets to the northward for half an hour; then fair down the river, and at the rate of not more than $3\frac{1}{4}$ knots in spring-tide.

At the /Isle aux Beaux, or Rat Isle, below Orleane Island, it is high water at 5h. 32m. It abbs by the shore 7 hours, and flows 5 and a half; the streams run an hour later. Off the S.W. end of Madame Island, it is high water at 5h. 40m.; springs rise 17, and neaps 13 feet. At Quebec, the time of high water is 6h. 37m. Here it abbs by the shore seven hours and forty minutes, and flows four hours, and forty-five minutes. Both streams run an hour after high and low water by the shore. Springs rise 18, and neaps 13 feet.

DIRECTIONS FOR SAILING UP THE RIVER ST. LAWRENCE FROM ANTICOSTI TO QUEBEC.

THE current from the tiver sets continually down to the south-eastward between the S.W. point of Anticosti and the coast of the district of Gaspe's but in the spring of the year it is strongest, and is caused, as is supposed, by the gast quantity of snow which thaws about this time. In summer it may be averaged at about the general rate of 2 miles an hour; but in spring, its rate, though it has amounted to 34 miles an bout, varies according to the quantity of ice and any that has accoundiated. It has been ead that there is a difference of 2 or 3 feet in the level of the itrer between the mouths of May and August, which has been supposed to arise from the qualitity of ice and snow melted in the spring.

Those advancing towards the river, in the fairway between the S.W. point of Anticosti and Cape Rosier, with the wind from the North or N. by E., if ignorant of the current, may think that they are making a reach up, when really approaching the south shore. This is to be guarded against, particularly during a long night, or in dark and thick weather. It is always best to tack in time, and get out of the strength.

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of the current, which will be found to diminish towards the north coast. If you are far enough to the westward to weather Anticosti, when coming up with contrary winds, you must stand to the northward and keep within 3 or 4 leagues of the land up to the extremity of the Cape de Monts. The land is all bold, and the

the fand up to the extremity of the Cape de Monts. The fand is all bold, and the tide along it favourable. After getting up to Trinity Cove, or the coast to the N.E. of the cape, the flood will be found setting along the north shore. When between the S.W. and west points of Antipost, both the currents and swell shore; and as the bottom is bad, the anchore will not hold; therefore, the greatest caution is necessary, on the first appearance of a decrease of wind, to endeayour to stand off the land; or, in the event of a calm, you might be set on shore, by the current, near the St. Mary's cliffs, as a heavy swell sets in frequently some hours

When off the west end of Anticosti, with a fair wind, steer well to the northward, so as to keep out of the strength of the current, steering about W.N.W. or towards

English Point; when you have run better than half of the distance, yad must steer more southerly toward Point de Monts, and endeavour to make the light, which is situated not on the extreme point, but 11 miles N.E. of it; and there are rocks 1 a mile from the point. In thick weather this is a most dangerous part of the navigation; for when the wind is fair it is generally thick; and the greatest caution is neces-sary when approaching this point; the ship should be put under snug canvase, and the deep-sea lead be kept going; for if you are to the northward of the point, soundings will be obtained 5 or 6 miles from the land, in 40 to 50 fathoms. The vicinity of Cape Chatte has long been the dread of mariners navigating this river, from the number of wrecks, and still more numerous hair-breadth escapes that have occurred near it; the errors in the variation in the old charts, the current and local deviation, all tending to draw vessels upon the south shore.

all tending to draw vessels upon the south shore. In clear weather you may run-along the south shore, from off Cape Chatte, a W. 4 S. course, 11 or 12 leagues, will bring you abreast of Matan, the paps of which, Camille will also be visible, bearing W.S.W. distant 14 or 15 leagues, in the shape of a circular island, and appears to the northward of all the southern to the wind. Continuing that course, you will nase Little and Great Metia. to the wind. Continuing that course, you will pass Little and Great Metia and continuing on W. by S., 5. leagues from Great Metis, you will arrive a Father Point, the principal residence of the pilots, and from which Mount Camille

Great Metin is 2 leagues west from Little Metis, and is also only fit for small vessels, which may find shelter and anchorage with S.W. winds, but as the place rearly dries, it is of little use to shipping. Little Metis may be distinguished from Great Metis by a round bluff rock, lying S.E. from the north reef, distant 14 miles, and a small sugar-loaf hill to the eastward of the rock. Great Metis has a large rock in the middle of the cove ; Little Metie has none; but you must be within 2 or 3 leagues of the shore to distinguish these coves, for the points of land by which they The bank of soundings extends 4 or 5 miles of from these coves ; but to the eastward of Matan you will have 60 fathoms only 3 miles off the

When beating up, it requires a tolerably good sailing vessel; and a flood-tide, to beat past Point de Monts against a wind right out; but short boards round the point, and along the north shore, up to Cape St. Nicholas, will most readily succeed. It is not, however, advisable to keep this shore close aboard farther to the westward, The how here the second of a calm; for there is a strong indranght towards the mouth of the Minicouragon River during the flood-tide. If an easierly wind should chance to spring up, after the vessel has been drifted near the mouth of English Bay, it might be difficult to beat out, or weather the eastern bide of the

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ST. LAWRENCE FROM ANTICOSTI TO QUEBEC. 173

A vessel standing over to the southward from Point de Monts, with a west wind on the starboard tack, will be carried over to the south coast at a rapid rate, having the current on the weather quarter; during her board tack she will be retarded, the current then being directly opposite to her course. When sailing at the rate of 4 knots, it will usually require only about half the time to go from Point de Monts over to the south shore, that it will take to return from the latter to the former. This is a most important circumstance, which it is necessary to guard

against when beating up during dark nights, and especially in foggy weather. When running up, during foggy, weather, when the land cannot be seen, the object should always be to strike soundings on the bank along the south coast, about Metis, or Father Point at farthest; and then-following it as a guide to the westward. Father Point is low, covered with houses, and the regular rendezvous of the pilots. With the point bearing South, by compass, distant 6 miles; the depth is 30 fathems, soft clay; but you may haul in-shore to 10 fathems, in foggy weather; and by bringingto with your head off; and firing a gun or two, you will get a pilot off.

The distance from Cape Chatte to the west part of Father Point is about 24 leagues; and from thence to the anchoring place at Bic Island, is 13 miles; make an allowance for the current, and any ship may run it with safety.

While advancing from the eastward toward Father Point, and being off Little Metis, the high land to the southward of Cape Arignole may be seen before the cape itself or Isle Bic comes in sight. From off Mount Camille, in clear weather, Bic may be clearly seen. To avoid mistaking Barneby Isle for that of Bio, observe that, in thick weather, a ship cannot approach the land, near Father Point, without gradually shealing the water; consequently if, whild keeping the lead going, you come into 9 fathoms, and make an island suddenly, it must be Barneby; or, if falling in with an Island on any bearing to the westward of W.S.W. one cast of the lead will be suffcient to ascertain which it is; for, with Barnaby from W.S.W. to W. you will have from 7 to 5 fathoms, But the lighthouse on Biquette will remove the possibility of this mistake.

If, with the lead kept going, and no soundings be found, yon suddenly fall in with an island to the southward, it must be Biquette. With this island, S.W., that a mile, there are 16 fathoms of water. At 2 miles east from it are 10 fathoms, and a ship advancing into this depth, from the deeper water, may either haul off to the northward, and waits for clear weather, or proceed by sounding around the reef from the east end of Bic; steer thence West, 2 miles, and come to an anchor, within the island, in 12 or 11 fathoms. At 4 miles north of Biquette are 50 fathoms of water.

With an easterly wind, if requisite to anchor on the south side of Bic, to proceed from windward, run boldly to the southward, and look out for the reef extending from the east end of the island; the latter may be seen, being always above water. Give the reef a berth of a quarter of a mile, and run along, in mid ohannel, until Cape Arignols bears S.S.E., the body of the Island then bearing N.N.W. In 10 or 11 fathoms is a large ship's berth, the ground clear and good. Small vessels may run up until the Island bears N.E. in 9 fathoms, at about a quarter of a mile from the island, but here the ground is not so clear as in the deeper water. Fresh water is obtainable in the cove just to the westward of the east end of the island.

If, during a westerly wind, a ship should be to the windward of the island, and it be required to bear up, in order to anchor, stand to the southward, into 11 fathoms; then run down and anchor, as above directed; but particularly noticing that, with little wind, 10 fathoms is the proper depth of the fairway, and that the last quarter-flood, and all the ebb, sets strongly between Biquette and Bio.

Should you, with the wind easterly, be too far to the westward to fetch round the east end of Bio, in order to gain the anchorage, give Biquette's berth of half a mile, then run up until the west end of Bic bears S.E., when Cape Arignole will be open of it. The latter mark leads to the westward of a reef that covers at high water; and bears west 14 miles from Biquette. By hauling round to the southward, with Cape Arignole open, you will pass athwart the opening between Bic and Biquette, in from 16, to 12, 10, and 9 fathoms; the water thence shoalens into 6 fathoms, on

the spit of mud and sand lying S.W. by W. from Bic, 1 mile. After crossing this spit, you will deepen into 9 and 10 fathoms, when the passage will be open, and you

The N.W. ledge of Big, the west end of that isle, and Cape Arignole, are nearly in a line when bearing S.E. When beating into Bio, from the westward, while standing to the southward, do not shut in Mount Camille with Cape Arignole, or, in standing to the northward, do not shut Mount Camille with the Isle Bic.

In foggy weather it is not recommended to run inside of Bio without a pilot, unless you are very well acquainted; and this passage must at all times be run for with

Bank of Soundings .- In the offing, between Barnaby and Bic, are regular soundings, decreasing from 35 to 30 fathoms, generally of clean ground. Shipe may, therefore, anohor in any depth, but no nearer than a mile and a half, with Bio bearing from W.S.W. to S.W., as otherwise the channel on the south of that island will not he open; and, with a sudden shift of wind, you may not be able to quit

At N.W. from the eastern extremity of the S.E. reef of Bic, and just to the southward of the stream of Biquette, is the N.E. reef, a dangerous ledge, seen at low water, spring-tides only. To svoid it, give Bic a berth of 11 miles. Westward of Bio the edge of the bank of soundings trends to the south-westward up to Basque Isle, and ships may therefore stand safely to the southward by the lead, 12 fathoms being the

ISLE BIG TO GREEN ISLAND .- From the Isle Bic, Green Island bears S.W. by W. W. 93 leagues: and the course will therefore be from W.S.W. to S.W. according to the distance northward from Bic, &c. In this course and distance, you pass the Alcide Rock, the Razades, Basque, and Apple Islands. From the Rocks of Apple Island to the eastern reef of Green Island, the bearing and distance are W. by S. 9 miles. This reef extends nearly a mile from the trees on the east end of Green Island, and is always uncovered. The small channel on the south side of Green Island is nearly dry at low

The edge of the bank is steep to the northward of the Razades, &c. ; but from 35 fathoms, inward, there are gradual soundings. Between Bic and Green Island there is anchorage all the way in 14 fathoms; and for small vessels, in fine weather, in 9 fo the east end of Green Island, and the tide be done, you may anchor in 10 fathome, off the reef, and in the stream of the ledge extending N.E by N. from the lighthouse point, at the distance of a mile from the extremity of

Between Bie and Basque the ground is all clean ; but thence to Green Island it is foul. A small vessel may find shelter under the east end of Basque, in 25 fathoms at low water, giving the east end of the reef extending from that island the berth of, a quarter of a mile. The anchorage is with the island bearing W. by S.

The lighthouse and reefs about Green Island have been already described. The lighthouse bearing S.W. by W. leads safely up to Green Island. The high land to the southward of Cape Arignole kept open to the northward of Basque Island, leads clear of the lighthouse ledge. With the lighthouse bearing S.W. by S., this ledge will be exactly between the ship and lighthouse.

Between the lighthouse and the west end of Green Island, in fine weather, you may stop tide in 20 or 25 fathoms, close to the north side of the island : but, if the wind be fresh, the ground will be found to be had for holding, and too near the shope. During N.E. winds, small vessels may anchor between the S.W. reef and Cacona, in 4 fathome; but it will be better to bear up for the Brandy-Pots, lest they be caught by adverse

Should you, therefore, have passed the lighthouse on Green Island, and no pilot be obtained, the weather clear and the wind fair, steer beldly on S.W. 1 W. or S.W. by W. 3 leagues, you will then have White Island W. by S., and Hare Island with the Brandy-Pots S.W. by W. or nearly ahead. Give the Brandy-Pots a berth of three-quarters of a mile and run on a mile or more above them, then anchor in from 7 to 14 fathome; or should the wind shift to the westward and your vessel be up to White Island, the tide them at a stand to the couthward into 9 fathome are the white Island, the tide heing spent, stand to the southward into 9 fathoms, or towards White Island into 6 or 7, then anchor; the ground is good for holding. Red Island bears from the lighthouse of Green Island N.W. by W. + W. nearly 5+

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ST. LAWRENCE FROM ANTICOSTI TO QUEBEC.

miles. The eastern extremity of its extensive reef bears from the same lighthouse nearly N.W. by N., and is cleared by the lighthouse and beacon on Green Island in one, bearing S.S.E. 4 E. When coming up in the night, that light should not, therefore, be brought to the eastward of by E. until you are certainly within 5 miles of it. If, with the light bearing S. by E. until you are certainly within 5 miles of wait for daylight; and, should the wind be seant from N.W., you may then borrow, on the south side of Red Island, but so as to have White Island bearing S.W. 4 W. On drawing to the westward, you may approach the shoul of White Island by the lead, remembering that the ebb-tide sets strongly down between White Island and Red Island, and the flood in the contrary direction. A vessel may anohor, in fine weather, on the south side of Red Island Reef, in 12 fathoms, at the distance of about three-quarters of a mile. The tide hereabout, as already shown, sets in all directions. The lighthouse of Red Island has already been mentioned in the body of the work.

The soundings between Green Island and Red Island are very irregular. At a mile from each are nearly 30 fathoms of water. The water, during ebb-tide, with an easterly wind, appears broken, but there is no danger. The mark to sail through between Green and Red Islands is the Brandy-Pots bearing S.W. 2 W.

THE NORTH COAST.—The Point de Mille Vaches bears from Biquette N.W. by W. 41 leagues. The extensive sheal, which surrounds this point, commences of the river of Port Neuf, on the east, and has its southern extremity at 14 miles from shore, and very steep-to; the greater part of the boal is dry at low water. Above the point the land forms the bay of Mille Vaches, which is sheal, and full of rocks. At 11 miles S.W. by W. from Point Mille Vaches, are two islets, named the Esquamine Isles. In the Bay, at 4 miles west from the point, is a small river, named Sault de Mouton, having a fall of 80 feet, near the mouth of it, which may islaws seen when passing. Between the Esquamine Isles and Saguenay River, a distance of 74 leagues, S.W. by W., are three small rocky inlets, named Bohdesir and Les Bergeronnes, which afford shelter to fishing beats.

In proceeding for the Saguenay River, should the weather be thick, it would be advisable to drop anchor at the Brandy-Pots, until the weather becomes favourable, when the entrance can be easily affected with a leading wind. The leading marks are good, and the entrance a mile wide between the shoals. The Bull (Laboule) is a round mountain on the north side of the Saguenay, about 4 miles up, and by keeping the Bull open from the points, there is no danger in running in ; and when abreast of the port or houses at Tadousac, they may run up on whatever aide they think they have most advantage, but with ebb-tide there is less current on the north-east side of the river.

Other directions have been given in the description of the river on p. 154, and it may be added here that there are good anohorages at the Anse St. Etienne, 10 miles, above Tadousse, at St. Louis Island, 15 miles from Tadousse, at the Anse St. Jean, 22 miles, and at the Baie de l'Eternité, 28 miles above Tadousse, at all of which vessels might lie well to load; in other parts of the river the depth is far too great to anohor.

Ships working up on the north side, between the Esquamine Isles and Red Island, should keep within 2 leagues of the north land: the shore is clear and bold, and the flood pretty regular. But, should a ship, to the northward of Red Island, be caught by a sudden shift of easterly wind, so that she cannot fetch round the east end of I Hand Reef, she may safely bear up and run to the westward, giving Red, White, and Hare Islands, a berth of 2 miles in passing. At 3 leagues above Hare Island, she may haul to the southward, and enter the south channel toward Kamourasce, and thence proceed as hereafter directed.

GREEN ISLAND TO THE BRANDY-POTS.—The Percee Barrow Lodge, White Island, and the Brandy-Pots, have already been described. From Green Island to the Brandy-Pots, the course and distance are from S.W. 1 W. to S.W. by W. 4 leagues. The mark to clear Barrett Ledge, is the southernmost mountain of Kamourasce in a line with the saddle of the Great Pilgrim, or an islet lying off the N.E. side of Green Island, touching the high land of Cape Arignole: either of these marks will clear the ledge, but it is not recommended to go to the northward of ft unless you are visiting the anehorage at the Brandy-Poin.

In advancing toward the White Island the the deal may trust to the lead, but 7 fathoms is near enough to tack or anchor in, the fairway to the Brandy-Pots. The Brandy Pots are steep on the south side, 10 fathoms being near to them.

There is good anchorage to the eastward of the Brandy-Pots from 9 to 7 fathoms, and good anchorage above them, in from 9 to 14 fathoms. There the best roadstead of any part of the river, during the easterly winds, excepting that of Crane Island, and is the usual rendezvous for vessels bound down the St. Lawrence, and waiting for a

The best passage is to the southward of the Barrett Ledge and Middle Ground, and between them and the Pilgrim Shoal. The mark is the lighthouse on Green Island just shutting in with the south-west point of the island, and bearing N.E. 4 E., but the channel are soundings of 9 to 10 fathoms.

THE BRANDT-PORS TO THE SOUTH TRAVERSE AND GOOSE ISLAND.—The flat on the south side of Hare Island above the Brandy-Pots is bold-to. Here being 7 fathoms close to it nearly up to the west end, and the whole of this side of the island is bordered by rocks. When leaving the Brandy-Pots for the south channel the passage is across the Hare Island Bank; but should your vessel draw more water, it is better to run channel. Having entered the channel bring the north side of Burnt Island just open the Pilgrims and Hare Island Reef; keep the lead going as the shores on either side is all clear to the westward, so that you may stand from the south Bank, the river north shore until you are up to Cane Count

In standing to the southward from Hare Island, above the Brandy-Pots, you will find 16 to 18 fathoms of water. On the north side of the Middle Bank, 4 to 8 fathoms; but the there are 8 and 9 fathoms on the south side of this bank, with gradual soundings to

the south shore. Five fathome is a good depth to tack in. At night, or in bary weather, after crossing the Middle Bank from the Brandy-Pots, you should take the north or south side of the chord or or the Brandy-Pots,

you should taking the north or south side of the channel as a guide, for running Long Pilgressing the south side of the channel as a guide, for running should the south side of the south side of the Hare Island Bank de St. And the south side of the south side of the Hare Island Bank the lead. When as the mourasca Islands, are all so steep to as to give no warning by 9 fathoms, up to the black buoy of St. Ann's; if in a large ship, you may keep off in The direct of the south side of the south bank, in 7 or 10 fathoms;

The direct course from the Pilgrims to the buoy on the St. Ann's Shoal is about S.W. by W., and the distance 7 leagues. The South Traverse and coast between have been fully described. The bank between the Pilgrims and Kamourasca Isles is steep-to. The mark for tacking here is not to shut the S.W. and with the great Island of Kamourasca: in standing to the northward, you will gain the depth of 20

KAMOURASCA.—From the west end of Crow Island, the third of the Kamourasca Isles, the ohurch bears S.E. nearly a mile. Between is a place where ships may safely be run on shore; to run in, bring the church to bear E.S.E., or some distance to the westward of Crow Island, and run for it. In passing in, you will carry 14 feet in common spring tides, and 10 feet with neaps. The bottom is of soft mud.

Cape Diable bears from Crow Island S.W. 1 W. about 3 miles, and a reef extends from the cape as already explained, the easternmost part of which is not moreorder to get in should run down along the reef in 6 fathoms, and haul in for the With a story.

With easterly winds, the large cove on the S.E. of Cape Diable is a fine place for a vessel to run into, should she have lost her anchors. To enter, bring the church and Grow Island in the line of direction given above. Having arrived within the reefs, run up to the westward, leaving an islet that lies above the church on the left side; then put the ship on shore in the S.W. part of the cove, and she will be safe. Should the wind be westerly, put her on shore a little to the eastward of the church. Sourn miles fi lightees are buo Roque i on the revolvin Orane I whethen banks a . If ru strike t

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ST. LAWRENCE FROM ANTICOSTI TO QUEBEC.

SOUTH TRAVERSE.—From Cage Diable to the South Traverse, the course, if at 8 miles from the cape, will be S.W. by W. 4 W., 5 leagues, which will lead you to the lightvesset at the entrance of the Traverse. The banks on either side of this channel are buoyed. The course through is S.W. 4 S., 4 miles, along the edge of the St. Roque Shoal up to the third black buoy, and theore S.W. by S. to the chequered buoy on the Patch. The passage is then to the southward of the Stone Pillar with its revolving light, from whence you steer S.W. by W. past Go. Island Reef towards Grame Island. In these courses allowance must for the tide, which whether ebb or flood runs strongly, and you sho

• If running from off Cape Diable for the T etrike the bank off that cape in 7 or 8 fathoms, as that depth, it will lead to the lightvessel. On parthe water will suddenly be found to deepen, when keeping the south side on hoard, and proceed as a or in a fog, By keeping Roque Shoal, e southward,

If entering the Traverse with little wind, be careful to for the first of the flood, as it sets strongly toward the point of St. Roque On going through, if more than halfflood, allow for a set to S.W. by W., an the sure always to keep the south bank on board. Above the Pillers, or Pillars, the tide sets fair up the river.

In beating into and through this passage, be careful and tack from side to side on the first shoal-cast of the lead; but more particularly so to the northward, on the edge of the Middle Ground. Ten fathoms is near enough to the bank; and it is to be remembered, that the ship will always go farther over toward the Middle Bank than to the point of St. Roque Shoal.

Anchorage.—Between the Brandy-Pots and Traverse, there is anchorage all along the English Bank, and upon the edge of the flat on the south side, between the Pilgrims and the greater Kamourasca Isle, in 9 fathoms: under the Pilgrims, in 8 fathoms; off Cape Diable, in 10 fathoms; and thence, along the flat, up to the buoys.

Should the flood be done, when a ship is in the narrows, or between the buoys, or if, any occurrence render it necessary to anchor, do not bring-to in the channel, but on either side, as most convenient, and come-to in 7 fathoms; the tides will be found much easier after half-obb. In the deep water the tides run with considerable strength; therefore if you should be obliged to come-to, do so in 7 fathoms, with a good scope of cable before the tide becomes strong; for, if the anchor once starts, you may have to out from it, as it seldom takes hold again, the ground being foul and unit for holding.

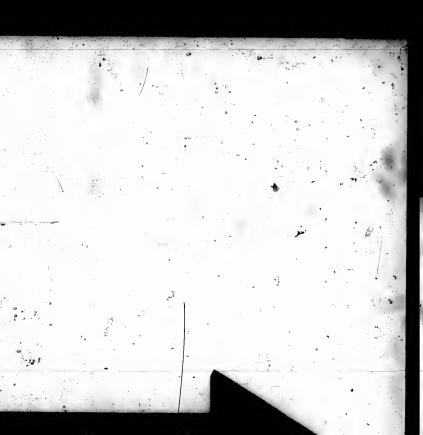
Near the Pillars the tides are much easier than below, as at and above them they set at a rate of not more than 34 miles an hour. Ships bound down, with easterly winds, may anchor at two miles to the north-eastward of the South Pillar, in 7 fathems; or, to the southward of it, in the same depth, with good ground.

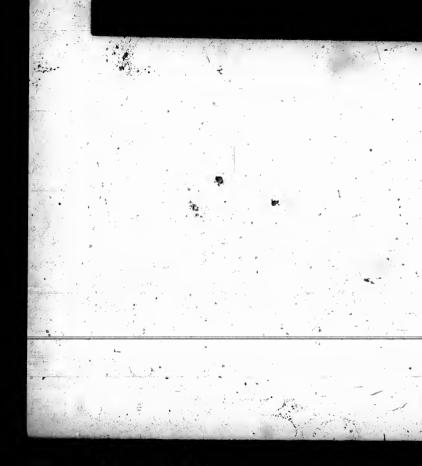
From abreast of the Stone Pillar, or of the Avignon Rock, the direct course and distance to Crane Island, are S.W. 4 W. 4 leagues. On this course you pass Goose Island, and arrive at the Beaujeu Bank, the channel to the south of which is that generally used; the depth in it is irregular, varying from 5 to 3 fathoms; and there are two rocky patches of 24 fathoms in the way, and difficult to avoid. The marks for passing the southern edge of the Beaujeu Bank, along the eastern half of its length, are, the Stone Pillar, its own breadth open to the southward of Goose Island Reef; and for the western part of the bank, which turns up slightly to the northward towards Crane Island, Point St. Vallier open 4 of a point south of the south side of Crane Island; but must hence take a circuitous route, in order to avoid this and other shoals. The south side of the channel is a muddy flat, of 3 and 2 fathoms; with regular soundings toward it. There is hence good anchorse all the way up to Crane Island. Stand no nearer toward Goose Island Reef than 10 fathoms; but above it you may stand toward the island to 7 fathoms.

When up to the body of Crane Island, you may approach safely, as it is bold and clear, with τ fathoms close to the rocks.

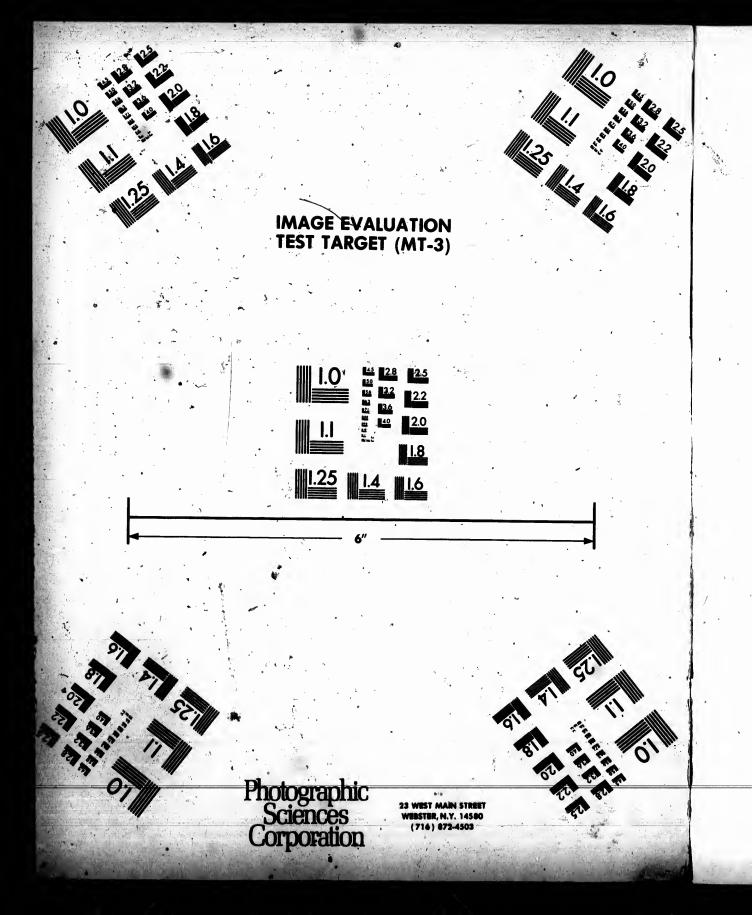
From off the Pillars to Crane Island, there is all the way, good and clean ground. There is, also, a good road off the body of Crane Island, in 8 fathoms. The best road in the river, during easterly winds, is at a mile to the westward of Crane Island; and

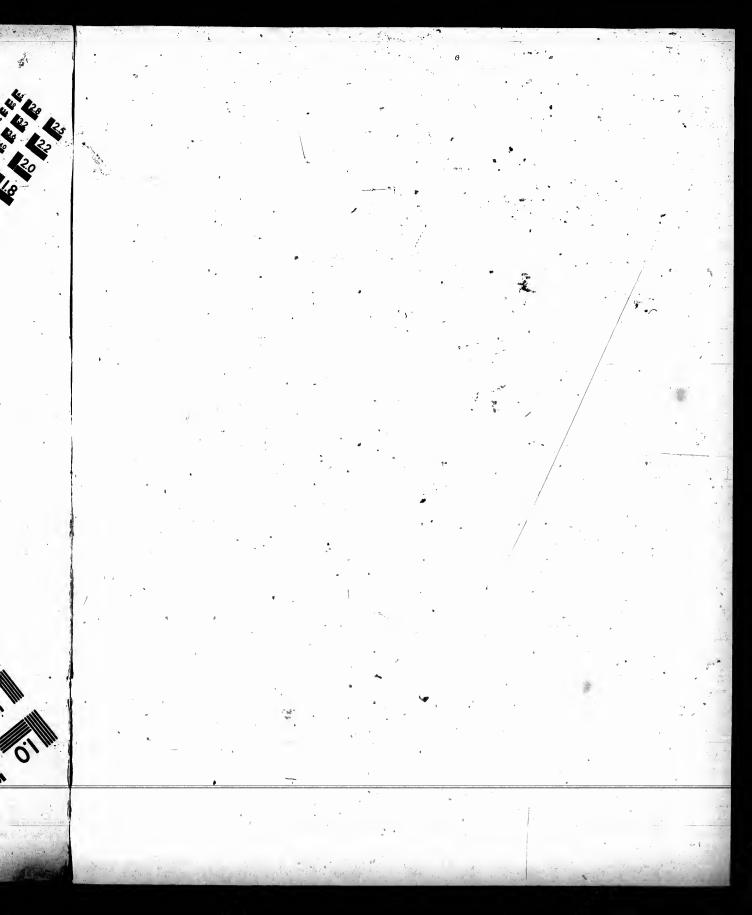












R. ST. LAWRENCE FROM ANTICOSTI TO QUEBEC. 178

ships bound downward, if at the Pillars, and caught by strong easterly winds, had

better run back to this place, than ride below, and risk the loss of anchors. CRANE ISLAND TO POINT ST. VALLIER.-The direct course and distance from Crane Island to Point St. Vallier are from W. by S. to W.S.W., 4 leagues. Between are the mud bank of St. Thomas, the Wye Rocks, the Belle Chasse Island, and the bank of Grosse Island. When St. Thomas's Church hears S.E. & E. you will be abreast the point of the bank named Margaret's Tail, having a red buoy, and may thence seef directly up, W.S.W. The mark for the southern edge of Margaret's Tail Bank is,

the south side of Haystack Island and Crane Island Church in one, bearing E.N.E. To avoid the Wye Rocks, never stand to the southward of 6 fathoms in the night: and by day, observe that the long mark to keep clear of them is Belle Chasse Island and Point St. Vallier, touching, bearing W.S.W. They are out of the way of vessels, with a fair wind, and the cross mark for them is the Seminaire on the north shore in one with the east point of Reaux Island, and Crow Island just open to the westward

To the west of Margaret's Tail is a narrow rocky shoal hamed Grosse Patch, with 7 feet least water ; between this shoal and Margaret's Tail is a channel 270 fathoms wide, and 5 fathoms deep, leading to the Quarantine Establishment on the southern' side of Grosse Island. For the guidance of the numerous vessels which stop there, a red buoy has been placed on the S.W. end of Margaret's Tail, as before mentioned, and also a white buoy on the N.E. of Grosse Patch; but in the absence of the buoys, the east points of Grosse Island and the Brothers in one, bearing N. by E., will lead through. There is a passage to the west of Grosse Patch, between it and the Island, but care must be taken to avoid a small rock, with 7 feet least water, lying 180 fathoms off Grosse Island, and on which a chequered buoy has been placed.

When above Margaret Island, stand no farther to the northward than into 6 fathoms. Reaux or Rat Island and Madame are flat to the southward; χ fathoms will be near enough to both. The south side of the chaunel, up to Belle Chasse Island, is all bold; 8 fathoms are close to it, with 7, 8, 9, and 5 fathoms, quite across.

There is good clean anchoring ground, and easy tides all the way." When up to Belle Chasse Island, stand no nearer to it than 8 fathoms, and to Ma-

dame than 6 fathoms. The shoal extending from Madame has already been noticed. The mark for clearing the southern side of Madame Bank, as well as the Grosse Island Tail and Patch, is, Race Island kept just open to the southward of Margaret Island. The mark for the S.W. extreme, which is the point of the entrance of the North Traverse, is, the north eide of Reaux Island just open to the northward of Madame Island, bearing N.E. # E., and St. Vallier Church hearing S. # E. The cross mark for clearing it to the S.W. is, Berthier Church and the west end of Belle

The North Channel and Traverse and the Middle Traverse are but seldom used, and the description of them will be found on pages 164, 166.

ST. VALLIER TO QUEBEO. From the Point of St. Vallier to that of St. Lawrence in Orleans, the course and distance are about W. by S. + S. 91 miles. Both sides are bold; 10 fathoms in the fairway from Orleans, and 8 fathoms from the south shore. Ships may anchor toward the island, in from 16 to 10 fathoms.

The Shoal of Beaumont is steep to. Make short boards until you are above Point St. Lawrence, when you will be above it, and may safely stand to the southward into

From Point St. Lawrence to Point Levy, the course and distance are W. by N., 2 leagues. At 11 miles westward from St. Lawrence's Church is St. Patrick's Hole. Here, in about 10 fathome, is the fairway to tack from. The depth in the middle is

From off Point Levy to Quebec, the course is W.S.W., and the distance about 2 miles. The Shoals of Beauport, on the north side, may be easily avoided : in standing toward them advance no nearer than in 10 fathoms, as they are steep-to, and are, in some parts, studded with rooks.

Ships arriving at Quebeo, with flood tide and an easterly wind, should take in their canvass in time and have cable ready, as the ground in the basin is not very good for holding. The water is deep, and the tides strong, particularly spring-tides. If obliged to come-to in the middle, there will be found from 16 to 20 fathoms (abreast of the town; but near the wharves, or at 2 cables' length from them, is a

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RATES OF PILOTAGE.

depth of 11 fathoms: and here vessels are easily brought up : but in the offing, 16 fathoms of cable will be required. On the Point Levy side is a depth of nearly 30 fathoms, and the tides are stronger here than near the wharves. With a wind heavy from the eastward, the best riding will be above the wharves, off the cove named Diamond Harbour, in the depth of 10 fathoms.

The Ballast Ground, or place appointed by law for heaving out the ballast in, is to the westward of two beacons fixed on the south shore, aboye Quebec. These beacons stand on the brow of a hill, above a cove named Charles Cove, and when in a line bear N.W. and S.E. of each other.

RATES OF PILOTAGE

THE following were the rates of pilotage a few years since, and are added, as we believe they still remain the same :---

		8.		
From the 2nd to the 30th of April, inclusive	1	D	6	
1 of May to the 10th of November, inclusive	v	10	U	
11th to the 19th of November, inclusive	1	3	0	
20th November to the 1st of March, inclusive	ì	8	Ö	
From QUEBEC to Bic.		•••		
From the 2nd to the 30th of April, inclusive	U	19	3	
tet of Mar to the 10th of November Inclusive	U	10		
114b to the 10th of November, Inclusive	- L'			
20th November to the 1st of March, inclusive	r	0	U	
and the Market States Market States Market States Market States Market States Market States	1	049		

Rates of pilot-water and poundage on pilot-money are payable at the Naval Office, by masters and commanders of vessels.

For every foot of water for which masters and commanders of vessels are bound to pay their pilots from Bic to Quebec, and from Quebec to Bic, 2s. 6d. currency, per foot. For vessels going to Three Rivers or Montreal,

Of 100 to 150 tons, inclusive, £2 currency.

Of 151 to 200 tons, inclusive, £3

Of 201 to 250 tous, inclusive, £4

Of 250 tons and upwards £5

On settling with pilots, masters or commanders of vessels, or the consignees of such vessels, are to deduct 1s. in the pound for the smount of the sums to be paid for pilotage, which will be exacted by the Naval Officer at clearing out, the same being

funded by law, under the direction of the Trinity House, for the relief of decayed pilots, their widows and children.

REGULATIONS for the pilotage above Bio to QUEBEC.

At or above the anchorage of the Brandy Pots-

Two-thirds of the present rate for a full pilotage.

At or above the Point of St. Roque-

Oue-third of ditto.

For above the Point aux Pins, on the Isle aux Grues (Crane Island), and below Patrick's Hole-

One-fourth of ditto.

And at and above Patrick's Hole, £1 3s. 4d.

For shifting a vessel from one wharf to another, between Bréhaut's Wharf and Point à Carcis, or to the stream from or to any of the above wharves, 11s. 8d.

For shifting a vessel from the stream or from either of the above wharves, to St. Patrick's Hole, or to the Basin of Montmorency, or to the Ballast Ground, the Basin of the Chaudière, the Wolfe's Cove, and as far as the River Cap Rouge, £1 8s. 4d.

RATES above the HARBOUR of QUEBEO :---

From Quebes to Port New.

£4 carrency.	For vessels of registered measuremen	To Que L.	bee from	n Port Neuf.	
£50 × 10 × 1	If above 200 and not exceeding 250 tons	. £2	10s.	ourrency.	•
To Three Rivers, or ab		£4	0.	27 - 27	
Port Neuf.	······································	rom T	hree Ri	ivers, and ab	
£6 currency.	FUF VBSSAIS not exceeding a one		LOLT V	enf	
			08. (surrency.	
£8 "		£4	10.		4.×
To-Montreal, and above		£5	10 <i>s</i> .	**	.77
Three Rivers,	- I	rom h	fontres	l, and above	
£11 ourrency.	FOF VARABLE mot and and a		nnee H	livers.	
£13 "	For vessels not exceeding 200 tone If above 200 and not exceeding 250 tone	£7	104. 0	UITTODOV	
£16 "-	If above 200 and not exceeding 200 tons If above 200 and not exceeding 250 tons If above 250 tons	£8	108.	»	
Pilots are at liber		£10	108.	· "	

Pilots are at liberty to leave vessels forty-eight hours after they arrive at the place of their destination.

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APPENDIX.

THE HARBOURS OF HALIFAX AND ST. JOHN, &c.

A DESCRIPTION of the coasts of Nova Scotia and New Brunswick does not properly come within the limits of the present work; but as many shipmasters, bound to the River St. Lawrence, may also visit the harbours of Halifax or St. John's, it has been thought desirable to append instructions for those ports. For more minute accounts of them, as well as for the various harbours of Nova Scotia and New Brunswick, the reader is referred to our Sailing Directions for the coast of North America, from Cape Canto to New York Harbour.

EALTRAX WARBOUR is one of the finest in British America. It is easy of approach, and accessible at all seasons, and is said to be large enough to accommodate a great number of vessels in perfect security. Its direction is nearly north and south, and its length about 16 miles. Its upper, part, known by the name of Bedford Basin, is a beautiful sheet of water, containing about 10 square miles of good anohorage. The town of Halifax is the capital of Nova Scotia, and contains 18,000 inhabitants.

The land about the Harbour of Halifax, and a little to the southward of it, is in appearance rugged and rocky, and has on it, in several places, sorubby withered wood. Although it seems hold, it is not high, as it is only to be seen from the marter-deck of a 74 guil ship at 7 leagues' distance ; excepting, however, the high lands of Le Have and Aspotogon, which have been seen 9 leagues off. When Aspotogon highland, which has a long level appearance, bears North, distant 6 leagues, an E.N.E. course will carry you to Sambro' Lighthouse, standing on Sambry' Island.

Sambro' Island is a small rocky island lying 3% miles to the S.W. from Chebueto Head, on the western side of the entrance to the harbour. On it there is a white potagon-shaped lighthouse, 60 feet high, showing a fixed light at 115 feet above the level of the sea, visible 20 to 25 miles. Pilots may be obtained from the island, and if a vessel fires a gun during a fog, it will be answered from the island.

On the eastern side of the channel into the harbour is Macnab's. or Cornwallis Island, which is connected to the eastern shore by a flat of 8 to 12 feet. The passage on this side of the island, named the Eastern Passage, is too shallow and confined to be used by any but boats, so that vessels always use the western passage into the harbour. From the south end of the island a sheal extends about a mile to the southward, and upon this flat there is a small island, named the Thrum Cap. There are also two islands to the eastward of Misenab's, named List and Devil, the latter Thrum Cap. There and Devil, the latter by e exists between being close off the eastern point of the harbour." No ship,

Devil Island and the shore, nothing larger than boats being able to pass. To the northward of Maenab's Island is George Island, a small island lying in mid-channel opposite the town. Close off it there are 4 to 8 fathoms, and in the channel between it and the town are 8 and 10 fathoms, while to the eastward of it are 13 and. 14 fathoms.

Light --On Maugher Beach, a graval spit extending from the western side of Maonab's Island, there is a white chroniar tower having a red roof, from which a red fixed light is shown at the beight of 50 feet above the see, visible 10 miles. Which Sambro Light bears W.S.W., this light should not be brought to the westward of North, and it will clear the Thrum Cap shoal. On Devil Island there is a building peinted brown, with a white belt, from which

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a light appearing red towards the sea is shown at the height of 45 feet above high water, visible about 8 miles. From this island/pilots may be obtained.

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Within the harbour, on the eastern side, there is somall cove in Macnab's Island, close to Maugher Beach, in which there is good anchorage in from 9 to 4 fathoms, muddy bottom. The best spot is rapresented to be in 7 fathoms, with Maugher Beach touching Sandwich Point, and the tower on George's Island touching Ives Point.

On the western side of the approach to the harbour is the rocky promontory of Chebucto Head, to the southward of which, for the space of about 4 miles, there are numerous rocks and shoals, which must always be carefully avoided when approaching the harbour from the westward. The assistance of local knowledge is absolutely requisite to enable you to sail among them, so that no vessel ought to approach the harbour, running along the coast from the westward, without having a pilot on board. These shoals surround Sambro' Island in all directions, and it is possible that some dangers may remain even yet undiscovered, one, the Owen Rock, having been met with so recently as 1844.

At 11 miles to the westward of Chebucto Head is a small harbour, named Catch Harbour, in which there is a depth of 2 and 21 fathoms, but the access is over a barof 10 feet. At the head of the harbour is a stream of good fresh water. There is also a cove, named Herring Cove, at 31 miles to the north of Chebucto Head, the entrance to which is about 100 fathoms wide, and quite bold on either side; with 6, 5, and 4 fathoms up to the elbow that forms the inner cove, where small vessels may lie in perfect security in a depth of 7 to 9 feet.

Rocks in the vicinity of Sambro' Light.—At the distance of about 14 miles S.S.E. 4 E. from Sambro' Lighthouse is a bank of ,42 to 18 fathoms, named the Heneroy Bank, which is about 4 of a mile in extent, and has soundings of 20 and 25 fathoms. close to it. On its centre there are but 9 fathoms, and it is said that in one part there are only 8 feet; but less than 9 fathoms was not found by Com. Shortland, when he sounded over the bank in 1852. Between this bank and Sambro' Island, there are several dangerous patches, the positions of which it is supposed have not been very acourately assigned.

. A rock of 12 feet water, named the Lockwood, has been reported to exist at about a mile from the Heneroy Bank, in an E.N.E. direction. In the recently corrected charts of this part of the coast, deep water of 50 fathous is laid down in this position.

The westernmost of the dangers about Sambro' Ialand is the Bull Rock, which lies $\frac{1}{4}$ a mile S.E. by E. from the extremity of Pennant Point, with Sambro' Lighthouse bearing E. $\frac{3}{4}$ S., distant 2 $\frac{3}{4}$ miles. At 1 $\frac{1}{4}$ mile W. by S. $\frac{3}{4}$ S. from the lighthouse are the Horse and Mare Rocks, and at nearly 2 miles W.S.W. $\frac{1}{4}$ S. from the same build extremity of Pennant Point. The Southwest Ledge.or Breaker lies 1 $\frac{1}{4}$ miles S.W. $\frac{3}{4}$ S. from the lighthouse, and E. by N. $\frac{1}{4}$ N. $\frac{1}{4}$ of a mile from it, is a rock of 16 feet water. Nearer Sambro' Island there are several dangers; and within the island between it and the shore, are several rocks, the principal of which are the Gull₂. Whale Back, Fairweather, and Torpys Ledges, so that no vessel ought to attempt to pass this way except in cases of extreme emergency. But little if any warning is given by the lead when approaching these rocks, there being as much as 10 14 fathoms.

To the eastward of Sanabro' Island are the Black Rock, Broad Shoal, Sisters, Owen's Rock, and other dangers, which exist more or less to a distance of 14 miles from the lighthouse. Of these dangers the Black Rock always shows, and the Sisters are uncovered at low water; but there are others under water, and as they all have deep water close to them, sailing in their violnity is extremely dangerous. The Owen Rock, so named from its discoversr, Captain Owen, of H. M. steam vessel Colombia; lies with Sambro' Lighthouse S.W. to S.W. by W. 4 W., distant one and three-fifths of a mile. Captain Owen in his report says:--"The Colombia touched on a sunken rock or ledge without entirely losing her way, so that there must have been at least 12 feet water on the part she touched (her draught being 121 feet); just hefore the vessel touched there were 11 fathoms, S fathoms at the time at the starboard paddlebox, and 18 fathoms at the port paddle-box."

There is also a rock named the Bell, a small rock of 6 fest, lying to of a mile from

THE HARBOURS OF HALIFAX AND ST, JOHN, &c. 183

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the shore, nearly midway between the entrance to Catch Harbour and Chebucto Head. In a northerly direction, towards the coast, it has a spit of 44, fathoms, extending from it a short distance, but in other respects if is steep-to, there being 7 and 8 fathoms close to its eastern, and 18 and 24 fathoms close to its western, side. Between it and the shore there are 14 and 8 fathoms, but no ship should attempt to pass inside it, on account of the dangerous rocks, named Duck and Duncan Reefs, which extend from the land and nearly block up the passage. The rock bears from the extremity of Chebucto Head nearly S.S.W. 2 W. one mile, and from White Head, the east point of Catch Harbour, E. 2 N. about 2 a mile. To avoid it on the east side do not go to the westward of the line of Sandwich Pointin one with Chebucto Head N. 2 E., as that mark will carry you clear of it, and also to the eastward of the Siters, and other ledges, in the vicinity of Sambro' Island.

Rocks at the entrance to the Harbour.---Within the line of Chebucto Head to the S.W. and Devil Island to the N.E., there are several rocks and ledges, the outermost of which is the Portuguese Shoal, a small aboal of 44 or 5 fathems, lying 3 miles S.W. 4 W. from the lighthouse on Devil Island; 4 miles S. 4 E. from the lighthouse

on Maugher Beach; and 21 miles N.E. 1 N. from the extremity of Chebucto Head. Close to it all around are 6 and 7 fathoms. Its western side is marked by a black and white beacon buoy, lying with George Island open a little westward of the light on Maugher Beach.

The Rook Head Shoal lies nearly $\frac{3}{4}$ of a mile to the E.N.E. of the buoy on the Portuguese Shoal. It is about $\frac{1}{4}$ of a mile in extent, and has $\frac{3}{4}$ to $\frac{4}{4}$ fathoms upon it, with 6 to 10 fathoms close-to all round. To clear it, as well as the Portuguese Shoal, on the east side, bring Sambro' Lighthouse Island open east of White Head, bearing S.W. $\frac{1}{4}$ S.*

In the old charts of Halifax Harbour the Portuguese Shoal is not mentioned, but a black and white buoy is placed on the Rock Head. We presume that the buoy was removed to the Portuguese Shoal on its discovery.

The Lichfield Rock lies on the western side of the approach to the harbour, at rather more than ‡ of a mile from the shore, in the direction of S.E. by S. from the mouth of Herring Cove. It has upon it 2½ fathoms, and there are 9 to 16 and 17 fathoms at a short distance from it, the deepest water baing between it and the coast, where there are as much as 20 fathoms of water. It is marked by a white beacen buoy.

The Neverfail Shoal is a shoal of 41 fathoms, lying in the middle of the approach to the harbour, at nearly midway between the Lichfield Rock and the Thrum Cap Shoal. It has 5 and 6 fathoms immediately around it, and at present (1854) is not marked by a buoy. You may sail between it and the Lichfield Rock by bringing the Flag-staff of the Citadel open east of Sandwich Point, bearing N. 1 W.

The Mars Rock lies under Sandwich Point, the western point of the harbour, at about 1 of a mile from the land. On its cheatest part there are 31 fathoms, and immediately around it are 8 and 10, deepening to 19 and 20 fathoms. Its eastern edge is marked by a white beaton buoy.

edge is marked by a white beacon buoy. The Thrum Cap Shoal is a shallow flat of 11 to 3 fathoms, extending nearly a mile to the S.S.W. from the south end of Manab's Island, on the eastern aide of the harbour. It must be carefully avoided when making the harbour from the eastward, and the red beacon buoy on its edge should always be passed on the south side.

From the south side of Maugher Beach a flat of 21 to 41 failhoms extends about 4 a mile, and has on it, near the extremity, a path of 83 fathoms. To clear this flat when running into the harbour, bring the Roman Catholic Chapel, at Dartmouth, in one with the east point of George Island, bearing porth, and you will avoid it in 10 or 11 fathoms.

Pleasant Sheal, running off from the point of the sante name, is about midway between Maugher Beach and George Island, on the vestern side of the channel. It extends nearly half the channel over, and has on its eastern edge a white beacon buoy lying with Chebueto Head open of Sandwich Ppint, and the Citadel Flag-staff N. by W. 4 W. There is also a small patch of 44 to 5 fathoms, called the Middle Ground, between this shoal and Maugher Beach. It is about a cable's length from north to south, and about the same in breadth. On its castern side the soundings.

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are from 7 to 18 fathoms, muddy bottom, while on its western side they are from 8 to 17 fathoms, coarse and rocky bottom.

To the northward of the Pleasant Shoal, and on the western side of the channel, is the Reed Rock, having only 41 feet over it; it is marked by a white buoy. There is a narrow passage between it and the shore, of from 11 to 6 and 7 fathoms, but it would be hazardous for a stranger to attempt to sail through it. To pass the rock on the eastern side, in 13 and 14 fathoms, bring Chebucto Head open of Sandwich Point; this mark will also clear the Pleasant Shoal.

Ives Knoll, on the eastern side of the channel, and which, along with the Reed Rock, contracts the navigable passage to $\frac{1}{2}$ of a mile, has, on its shoalest part, only i foot of water. It takes its name from the N.W. point of Macnab's Island, off which it extends about $\frac{1}{4}$ a mile to the northward. Its western edge is pointed out by a

The shoals on the western side of the harbour, near George Island, also marked by two white buoys, are named the Belleisle and Leopard.

DIRECTIONS.-No vessel ought to attempt the harbour of Halifax without having a local pilot on board. In the event of not being able to get one, the following direc-

In sailing into Halifuz Harbour from the usestward, you should advance to the eastward so as to pass Sambro' Lighthouse at the distance of a league, taking care not to approach nearer to it on account of the various dangers in its vicinity. When the lighthouse hears N.N.W. $\frac{1}{2}$ W. you will be in a line with the Henercy Bank, and with it N.W. $\frac{1}{2}$ W. in a line with the reported position of the Lockwood. With the lighthouse W.N.W. you will be clear to the northward of both, and may proceed N. by E., 4 miles, which will bring you off Chebueto Head. Here you should bring the leading mark on, which is the flag-staff on the Citadel Hill open east of Point Sandwich, and bearing N. $\frac{1}{2}$ W., as you will then pass clear between the Hichfield Rock on the west, and the Rock Head, Portuguese, Neverfail, and Thrum Cap Shoals on the east side. When up to the buoy on the Mars Rock, bring the Roman Catholio in the fairway up to George Island, leaving Point Pleasant Shoal on the left, and Maugher Beach with Ives Knoll on the right.

Or, when abreast of Chebucto Head, or when Sambro' light bears W.S.W., the light on Maugher Beach should never be brought to the westward of North. Keeping the light from North to N. by E. will lead clear of the Thrum Cap Shoal, from the buoy on which the lighthouse bears N. # W. Those advancing from the westward will see the light on Maugher Beach, when they are as far up as Chebucto Head; it then a good mark up to the beach:

George Island may be passed on either side, and you may choose your anchorage at pleasure, in from 13 to 6 fathon muddy bottom. From George Island to the head of Bedford Basin there is no obstruction to shipping.

Ships of war usually anchor off the Naval Yard, which may be distinguished at a distance by the masting sheers. Merchant-vessels discharge and take in their cargoes

^a Small vessels from the eastward, occasionally proceed to Halifax by the S.E. passage, within Macnab's Island. On the shoalest part of the bar of sand, which obstructs this passage, there are, however, but 8 feet at low water. Above the bar the depth increases to 5 and 10 fathoms, bottom of mud.

In sailing into Halifan Harbour from the eastward, especially with an easterly wind, observe that the Thrum Cap and Rock Head must be carefully avoided. In proceeding this way, steer West, W.N.W., or N.W., according to the wind and your distance from the shoals, until George Island, up the harbour, is open a sail's breadth Rodoubt, and proceed up:the harbour, taking care to avoid the shoal extending from Point Pleasant. In turning to windwards give the upper or inner part of Maugher from the north part of the beach to the distance of 14 cables' length. You may stand no further over to the westward, to avoid Point Pleasant Shoal, than Chebucto Head open of Sandwich Point.

• It is said that there is great difficulty in making Halifax from the eastward, particularly in the winter season, in consequence of the winds being too frequently from the W.S.W. to N.W., and ing of C

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THE HARBOURS OF HALIFAX AND ST. JOHN, &c. 185

Mr. Davy, R.N., of H.M.S. Cornwallis, made the following remarks while proceeding from Halifax to Quebec. The Cornwallis left Halifax on June 4th, 1888 :---

"Wind north with fine weather, sailed with Pearl, Dee, and Charybdis for the Gut of Canso. Passed out between the Thrum Cap and Rock Head Shoals to within a cable's length of the Thrum Cap budy, having 10 fathoms water; this channel is quite safe. Being thus clear, 27 miles led us to the sonthward of the Jedore Shoals; then East for White Head, wind and weather looking favourable. Just to the eastward of Cole Harbour is a remarkable red cliff, making in a well-formed saddle; the red is bright, and the eastern coast, thereby, is easily recognized; while the coast to the westward of Halifax is known by its white cliffs. It is advisable for strångers running from Jedore to Canso, not to approach the coast nearer than 10 miles, until abreast of Tor Bay. This is a spacious bay, having Berry Head at its western point and Cape Martingo at its eastern, 5 miles apart. White Head Island, immediately to the eastward of Tor Jay, is the most remarkable land on the coast, and is as a beacon to the pilots; it stands weil out, and from the westward terminates the eastern view. Being 10 miles south of it, stöer N.E. by E. for Canso Lighthouse, which is a tall white building, and makes well out to seaward, on a small, low island, named Cranberry Island. It exhibits good fixed lights which must be, brough to bear Weet before keeping away; then steer N.N.W., until George Island bears Weet, thence N.W. and N.N.W. for Cape Argos. Avoiding the Cerberus Shoal, which is very dangerous, and directly in the track, leave it on your port hand. Cape Argos makes like a round island, and is bold to approach; passing this, the distance across the gut becomes narrowed to 14 miles." *Nav. Mag.*, 1838, p. 299. On the coast from Halifax, westward, to Margaret's Bay, the country appears, from

On the coast from Halifax, westward, to Margaret's Bay, the country appears, from the offing, very rocky with numerous inlets, the shore being steep-to, and bounded with white rocky cliffs. The high lands of Aspotogon, on the east side of Mahone Bay, are very remarkable; and proceeding eastward from Mahone Bay the rocks which surround the shore are black, with some banks of red earth. Between Cape Le Have (which is a remarkable promontory, 107 feet above the sea, baid on the top, with a red bank under it, facing the south-westward) and Port Medway, there are some hummocks inland, about which the country appears low and level from the sea; and, on the shore, white rock and stony baches, with soveral low baid points; hence to Shelburne Harbour the land is woody. About the entrance of Port Latour, and within land, are several barren spots, which, from the offing, are easily discerned ; thence, to Cape Sable, the land appears level and low, and on the shore are some cliffs of exceedingly white sand, particularly at the entrance to Port Latour, and at Cape Sable, where they are very conspicuous from the sea.

cliffs of exceedingly white sand, particularly at the entrance to Port Latour, and at Cape Sable, where they are very conspicuous from the sea. **ST. TORN'S MARGOUR.**—The extrance of this harbour bears from the entrance of the Gut of Annapolis N. 1 W., 11 Kines, and may be distinguished by the lighthouse on Partridge Island, which shows a light dight at 120 feet above the level of the sea, visible 20 miles. The tower is painted red' and white, in vertical stripes, and is furnished with a bell, to be invariably tolled in thick or foggy weather; its position is lat. 40%14' 8' N., and long. 66° 3' 5' W. As a guide to vessels making St. John's, a large iron fog-bell has lately been placed in 7½ fathoms, at the entrance to the harbour. It lies with Cape Spencer, bearing S. 50° E.; Cape Mispick, S. 62° E., 34 miles; Partridge Lighthouse, N. 21° E., 14 miles; Sheldon Point, N. 49° W., 14 miles; Medginish south-east point, N. 76° W., 2 miles; Cape Negro, red mark, S. 81° W., 44 miles; and Cape Split, S. 78° W. The height of the bell above the buoy is 10 feet.

A beacon light is shown within Partridge Island, from a tower erected upon a spit or bar which runs out from Sand Point S.S.E. about $\frac{1}{2}$ a mile, and which dries at two-thirds ebb. This light is of great utility to the coasters, and all other vessels having pilots on board, as it enables them to enter the harbour at all hours of the night.

blowing so hard as to reduce a ship to very low canvass, if not to bare poles; and should the wind come to the eastward, it is invariably attended with such thick weather as to prevent an observation or seeing to any great distance; hence, under such circumstances, it would be impradent to run for the shore, more particularly in winter, when the easterly winds are attended with sleet and snow, which lodge about the masts, sails, rigging, and every part of the ship, becoming a solid body of ice so soon as the wind shifts round to the N.W., which it does suddenly from the eastward. These are circumstances of real difficulty; and it has been recommended, in such a case, to run. far to the south weatward, (avoiding the Guif Stream.) and thence from the S.W. coast, to keep the ahore on board, all the way to Halifax.

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North-east from the beacon light, just off the town, is a ridge of rooks which is covered at 3 hours' flood; from this ridge and eastward of the town are extensive flats of sand and mud, which dry at low water, and extend along the road to Oranberry Point, stretching off about 2 cables length.

^b The bottom, for several miles to the southward of Partridge Island, is muddy, and the depths gradual, from 7 to 20 fathoms, afording excellent anchorage; the passage westward of this island has in it 10 fect; that to the eastward has 16 fect; and abreast of the city are from 7 to 12 fathoms.

A breakwater has been erected on the castern side of the entrance to the barbour, below the town, for the purpose of reducing the inset of the sea, especially during a southerly gale.

The OITY OF ST. JOHN stands on the River St. John near its mouth, and carries on a considerable trade, and many ships are built here. Within the barbour is a valuable fishery, where large quantities of salmon, herrings, and chad are cured for exportation. In the most severe winter it is free from the incumbrance of ice. The country on the banks of the river abounds in excellent timber, coal, limesone, and other minerals. Partridge Island is about 2 miles to the southward of the city, answering the double purpose of protecting the harbour, and, by its lighthouse, guiding and directing the mariner to its entrance.

The entrance into the river, 2 miles above the town of St. John, is over the Falls, a narrow channel of 80 yards in breadth, and about 400 long. This channel is straight, and a ridge of rocks so extends across it as to retain the fresh water of the river. The common tides flowing here about 20 feet, at low water the level of the river is about 12 feet higher than that of the ses; and, at high water, the level of the sea is from 5 to 8 feet higher than that of the river; so that; in every tide, there are two falls, one outward and one inward. The only time of passing this place is when the water of the river is level with the water of the sea, which is twice in a tide; and this opportunity of passing continues not above 10 minutes: at all other times it is impresable, or extremely dangerous. After passing the Falls, you enter into a gullet, which is about a quarter of a mile wide, and two miles long, winding in several courses, and having about 16 fathoms in the chaunel. Having passed this guilet, you enter a fine large basin 11 miles wide, and 8 miles long, which enters the main river. : The river branches some hundreds of miles up, in a serpentine mauner, and runs through a country which abounds with timber, coal, limestone, and many other minerals, and the surrounding lands are now becoming highly cultivated. There is water enough to navigate vessele of 50 tons as high as Frederickton, and in all the branches of the lakes adjacent, except in dry seasons. At times of great freshes, which generally happen between the beginning of April and the middle of May, from the melting of the snow, the Falls are absolutely impassable to vessels bound up the river, as the tide does not rise to their, level.

The following directions for St. John's Harbour and Meogenes Bay were written a few years since by Mr. Backhouse. It should be mentioned that from Captain Own's survey it would appear that the passage on the east side of Partridge Island is the best, there being in the other only 7 to 13 feet, and some shoal spots of less water at low tide.

"When you make Meogenes Island, or Partridge Isle, so as to be distinguished from the lighthouse on the latter, then make a signal for a pilot, and the intelligence from Partridge Island will be immediately communicated to the City of St. John, whence a pilot will join you. Should the wind be contrary, or any other obstruction meet you, to prevent your obtaining the harbour that tide, you may sail in between the S.W. end of Meogenes Island and the main, or between the N.E. end and the main, and come to anchor in 4 or 5 fathous at low water, mud and sandy bottom. The mark for the best anchoring ground here is, to bring the three hills in the country to the N.E. in a line within Rocky Point Island,* and the house on Meogenes Island to bear S.E. by S.

Should the tide of ebb have taken place at the beson, you must not, by auy means, attempt to gain the harbour that tide, but wait the next half flood, to go over the bar, as both sides of the entrance of this harbour are nothing but sharp rocks dry at low water; and the tide of ebb is so rapid in the spring, when the ice

• This is an islet, lying at a cable's length from the point, and more properly named the Shag Rock. It is surrounded by sanken rocks. and drivi On

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THE HARBOURS OF HALIFAX AND ST. JOHN, &c. 1871

and enow are dissolved, that all the anchors on board will not hold the ship from driving.

On the Nova Scotia side of the Bay of Fundy, your soundings will be from 50 to 50, 70, 80, to 95 fathoms; stones like beans, and coarse sand; and as you draw to the northward, the quality of the ground will alter to a fine sand, and some small shells with black specks. Approach no nearer to the south ahore than in 50 fathoms; and, as you edge off to the N.W. and W.N.W., you will fall off the bank, and have no soundings.

When you have passed Meogenes Island, edge in shore towards Rocky Point, until Meogenes Polnt (Negro Head) is in a line over the N.W: corner of Meogenes Island; sailing in between Rocky Point, and Partridge Island, with these marks in one, will lead you in the best water over the bar, (9 to 15 feet,) until you open Point Mispick to the northward of the low point on Partridge Island; then starboard your helm, and edge toward Thompson's Point, until the red store, at the south end of St. Johns, is in a line over the beacon; keep them in one until you pass the beacon at a distance of a ship's breadth; then haul up N.N.W. up the harbour, keeping the blockhouse, at the upper part of the harbour, open to the westward of the king's store, situated close to the water side, which will lead you, in mid-channel, up to the wharves, where you may lie aground dry, at half-tide, and clean your ship's bottom, or lie afloat .--N.B. The tide of flood here is weak, but the bob runs very rapidly all the way down part Meogenes Island."

The following directions are based on the details of the survey of Lieutenants Harding and Kortright, acting under the orders of Captain W. F. W. Owen, of the Royal Navy, in 1844.

When running for St. John's avoid the rocky ledge running off Inner Mispick Point, the eastern side of the entrance, to the distance of 34 cables length, and which is steep-to, with 30 to 40 feet close off; and having brought the stone barracks in one with the Wesleyan Chapel,* at the back of the town, bearing N. 4 E., steer in with this mark on, and it will carry you outside of the shoal water extending from the eastern side of Partridge Island. When Carleton Church comes in one with the cliffend, (the termination of the cliffs forming Negro Point.) bearing about N.W. 4 N., you must change your course to this direction, and it will lead you in from 10 to 22 feet at 14 cables length to the northward of the sheal ground extending between Partridge Island and Negro Point. Continue in this direction until the stone church at the back of the town comes on the end of the breakwater, when sur the beacon-light steer N. by W. or N. by W 1 W., and anchor off the town. Be cariful to keep the lead going when following these directions, that you do not strike on the sheal spote.

To the north-eastward of the beacon-light, and just off the town, is a ridge of rooks which is covered at 2 hours' flood. From this ridge, and eastward of the town, there is an extensive flat of mud and sand which dries at low water; this extends liong the coast to Cranberry Point, and runs about 2 cables' length from the shore.

Cranberry Point is cliffy, and has some rocks running off it. It is high water on the days of full and change a 11h. 44m.; spring-tides rise 28 to 25 feet, and neaps 21 to 23 feet.

Signals.—The following signals are displayed at Partridge Island, on the approach of ressels to the harbour of St. John :--

One ball close for	square-rigged vessel.	l
One ball half-hoisted for	8	ţ
Two balls separated for A pendant of any colour for	5 "	-
A pendant under a ball for	6 7 "	1
A pendant under two balls close for A pendant under two balls separated for	8 " 9 "	
A flag of any colour for 1	0 or more "	

• This building will be known by its cotagonal tower with a circular top. It is situated in the N.E. part of the town.

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A union jack, with a white pendant over	manahamt allin
A FUL GILLO ADDARGANA	manshant huig
A white ditto (without a ball)	"foreign vessel."
A rod flag, pieroed white	" steamboat from St. Andrew's and Eastport.

by sign winns, and in proportion to the height of them. To the W.S. weetward of Meogenes Island, is Flat Bay, in which the depth is 5 and 4 fathoms water. It is a simall harbour, cocasionally used by coasters. From hence the land runs nearly W.S.W., passing Negro Head and Halfway Point, (on which is a white horizontal stripe, about 5 feet broad, and which appears to be 40 feet long.) to Cape Musquash, which is 9 miles from Parkridge Island. Close off Cape Musquash is the Split Heat, which 3 fathoms very near it; this rock is marked by seven white balls, six of which are distinctly visible at a distance of 10 or 12 miles.

THE END.

Root and Parties, Printers, Paterneeter-row, London.

IN, &c. the direction in. . distinguished, rder :---184 r sloop. Andrew's and or in distress. ther, a gun will a vessel require place of a ball. 1855 it may be men-1m-8 food, and about DATE urs, about 10 or NOM DE L EMPRUNTEUR on the floods in often hastened 91,-1.00. depth is 5 and From hence it, (on which is 10 feet long.) to Ce volume doit être rendu à la dernière date indiquée dessous. pe Musquash is en white balls. 4 . 1.4

