

MARINE METEOROLOGY.

Co-operation of Shipowners, Masters and Mates.

Captains and Officers of ships registered in Great Britain and Northern Ireland, who wish to co-operate regularly with the Meteorological Office should apply to the appropriate Port Meteorological Officer or Agent, a list of whom, with addresses, is given below.

In accordance with the International Convention for Safety of Life at Sea, the Meteorological Office arranges for certain "Selected Ships" to take meteorological observations at specified hours, and to transmit such observations by wireless telegraphy, for the benefit of other ships and the various meteorological services.

Arrangements are also made for a limited number of ships to keep meteorological logs in certain trades for the purpose of completing the meteorological survey of the oceans.

Ships regularly performing these voluntary duties are known as Observing Ships; the whole as the Voluntary Observing Fleet; and the commanders and officers of these ships as the Corps of Voluntary Marine Observers.

At present the observing fleet is limited to a number not exceeding 360 observing ships. The number of British "Selected Ships" is determined upon the British proportion of world tonnage, on the assumption that there should be a total of 1,000 "Selected Ships" of all nations.

The observing fleet list indicating which are "Selected Ships," with the names of commanders, officers, and other particulars, is published in THE MARINE OBSERVER and kept up to date monthly.

A general description of marine meteorological work, including the particulars desired from intending marine observers, is given in Chapter I of THE MARINE OBSERVER'S HANDBOOK, 5th Edition, which is supplied to all observing ships, and may also be obtained from H.M. Stationery Office, direct, or through any bookseller, price 2s. 6d.

THE QUARTERLY MARINE OBSERVER or MONTHLY SUPPLEMENT is sent regularly to the captain of every observing ship, for the information and guidance of his observing officers, and in the case of "Selected Ships," the wireless operators also. The Captains of observing ships are also supplied on request with charts, and atlases, according to trade, if available, as meteorological equipment.

Ships keeping the Meteorological Log, Form 915, are lent a complete set of official tested instruments.

"Selected Ships," other than meteorological log keeping ships, keep the Ships' Meteorological Record, Form 911. All "Selected Ships" also keep the Ships' Wireless Weather Register, Form 138.

No observing ship is detailed as a "Selected Ship" unless she has on board a reliable mercurial barometer.

Official tested instruments are lent to "Selected Ships" when necessary.

The commanders of observing ships keeping the meteorological log are requested to return it (accompanied by Form 138 in the case of "Selected Ships") through the appropriate Port Meteorological Officer or Agent at intervals of not more than five months.

Commanders of observing ships keeping Forms 911 are requested to return them (accompanied by Form 138 in the case of "Selected Ships") by post direct to the Meteorological Office, London, at the end of each voyage, or at intervals of not more than two months.

These forms have the address and "On His Majesty's Service" printed upon them, and should be folded for posting accordingly.

The Port Meteorological Officers and Merchant Navy Agents inspect official instruments in Meteorological log ships half-yearly, and in "Selected Ships" quarterly, when possible; and they will replace defective gear. These officers will also check the accuracy of barometers in observing ships, but marine observers should themselves frequently check by comparison.

The work of the British observing fleet, that of the observing fleets of other nations party to the Convention for Safety of Life at Sea, together with Weather Shipping Bulletins and Gale and Hurricane Warnings conforming to the International Convention for Safety of Life at Sea, provide the necessary information for shipping. Thus a world wide service for all shipping, at the minimum cost to national funds, is provided. Shipowners are asked to facilitate this voluntary work which is done by the commanders and officers of their ships.

Shipowners will greatly assist by facilitating the forwarding of postal matter from the Air Ministry addressed to the Captains of ships.

The masters of all British ships fitted with wireless telegraphy are asked to assist in this service in aid of navigation by making routine wireless weather reports in accordance with the Selected Ship scheme where and when there are not Selected Ships carrying out the service.

This supplementary service to that of Selected Ships is particularly desirable in the regions and seasons of tropical revolving storms.

A pamphlet entitled "Decode for use with the International Code for Wireless Weather Messages from Ships", M.O. 329, Third Edition, price 6d. can be obtained from H.M. Stationery Office. This gives a description of the world wide system of voluntary Selected Ships routine wireless weather telegraphy, the Tables for decoding reports received from Selected Ships, and notes for the guidance of the masters of British ships.

"A Handbook of Weather, Currents and Ice for Seamen" has recently been published by H.M. Stationery Office, and may be obtained from the Stationery Office or through any bookseller, price 4s. This provides information of the elements named, the Laws of Storms, and gives guidance for weather forecasting at sea. It also gives some information of Ocean Pilotage and is intended as a guide for making use of the services specified in Article 35 of the Convention for Safety of Life at Sea.

NAUTICAL OFFICERS AND AGENTS OF THE MARINE DIVISION OF THE METEOROLOGICAL OFFICE, AIR MINISTRY.

LONDON ...	Captain L. A. BROOKE SMITH, R.D., R.N.R., Marine Superintendent. Commander J. HENNESSY, R.D., R.N.R., Senior Nautical Assistant. Room 117A, Adastral House, Kingsway, W.C.2. (Telephone No.: Holborn 3434 Extension 421). Nearest station, Temple, District Railway.
THAMES ...	Commander C. H. WILLIAMS, R.N.R., Port Meteorological Officer, P.L.A. Building, King George V Dock (south side), London, E.16. (Telephone No.: Albert Dock 2659. Telegraphic Address: Barometric Aldock, London).
MERSEY ...	Commander M. CRESSWELL, R.N.R., Port Meteorological Officer, Dock Office, Liverpool. (Telephone No.: Bank 8959. Telegraphic Address: Meteorite, Liverpool).

Agents.

BRISTOL CHANNEL	Captain EDWARD HALL, 21, Dowlais Buildings, West Bute Street, Cardiff. (Telephone No.: Cardiff 1268).
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Agents (contd.).

CLYDE ...	Captain W. HENDERSON, 80, Buchanan Street, Glasgow, C.I. (Telephone No. Central 3775).
FORTH ...	Captain C. G. BONNER, V.C., D.S.C., Leith Salvage and Towage Co., Ltd., 2, Commercial Street, Leith.
HONG KONG, China.	Lieut. Commander M. V. KEOGH, R.N., Chart Depot, H.M. Dockyard. (Telephone No.: 108 Dockyard).
HUMBER ...	Captain A. M. BROWN, Ellerman Wilson Line Office, Hull. (Telephone No.: Central 16180).
SOUTHAMPTON	Captain Sir BENJAMIN CHAVE, K.B.E. Room 35 Royal Mail House.
SYDNEY, New South Wales.	Captain N. G. ROSKRUGE. Captain G. B. MERCER. Customs House. (Telephone No.: B6421).
TYNE ...	Captain J. J. MCEWAN, Marine School, South Shields.

DERELICTS AND FLOATING WRECKAGE.

Date.	Position.		Description.	Date.	Position.		Description.
	Latitude.	Longitude.			Latitude.	Longitude.	
NORTH SEA.			Large quantity of floating pit props, dangerous to navigation.	North Atlantic—(continued).			Large red pillar buoy, whistle operating, light extinguished. 2 black can buoys, black flag on one.
19.11.36	54°38'N.	5°19'E.		12.11.36	49°10'N.	35°06'W.	
NORTH ATLANTIC.			Small tree trunk. 4-masted schooner <i>Mabel A. Frye</i> , abandoned, set on fire. Derelict schooner <i>Hiawatha II</i> .	17.11.36	49°53'N.	11°33'W.	
3.11.36	44°50'N.	56°37'W.		NORTH PACIFIC.			
5.11.36	44°34'N.	45°35'W.		1.11.36	19°55'N.	105°58'W.	Submerged tree trunk with branches 10 feet out of water.
7.11.36	45°26'N.	59°03'W.					

CHART OF THE WESTERN NORTH ATLANTIC.

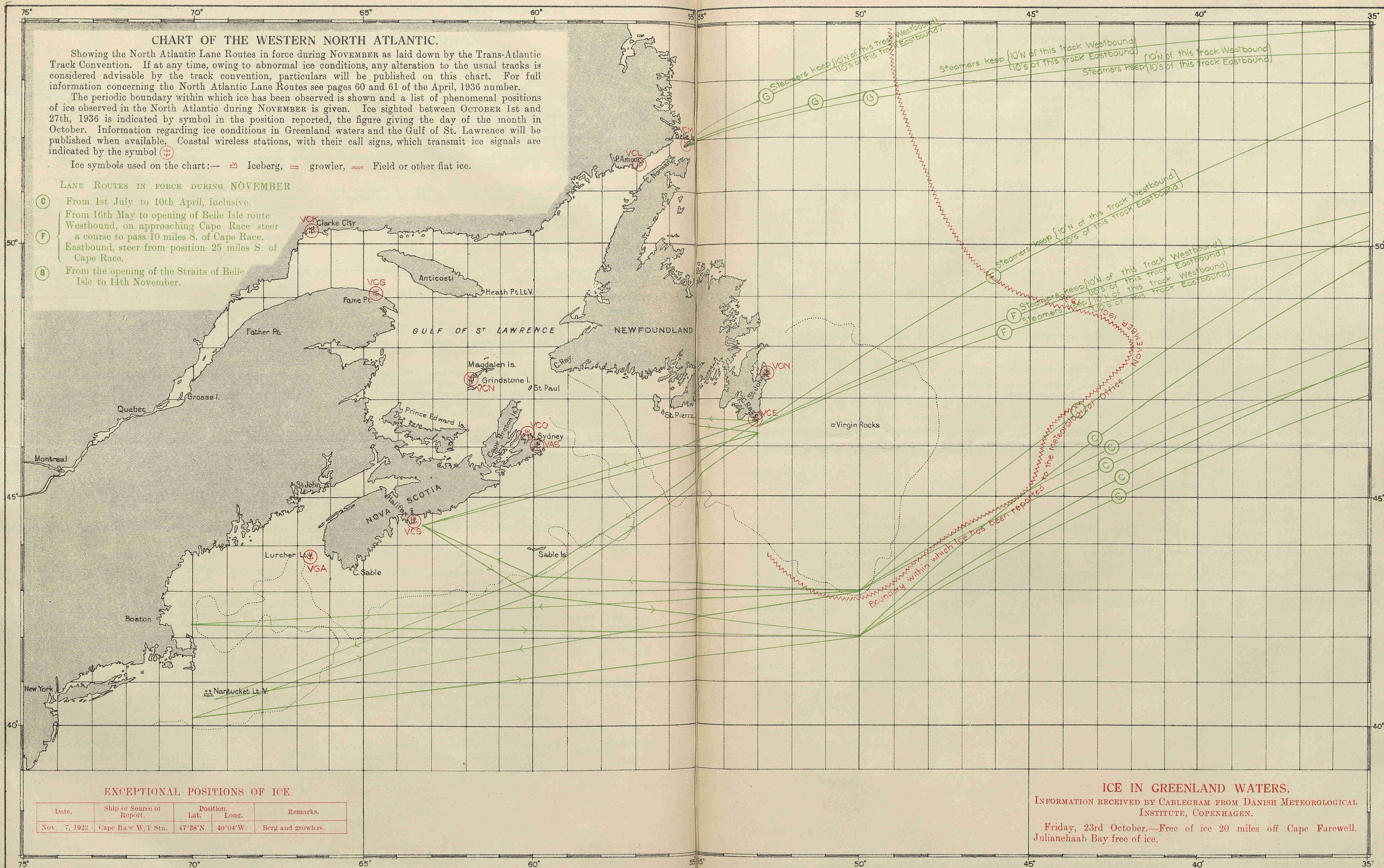
Showing the North Atlantic Lane Routes in force during NOVEMBER as laid down by the Trans-Atlantic Track Convention. If at any time, owing to abnormal ice conditions, any alteration to the usual tracks is considered advisable by the track convention, particulars will be published on this chart. For full information concerning the North Atlantic Lane Routes see pages 60 and 61 of the April, 1936 number.

The periodic boundary within which ice has been observed is shown and a list of phenomenal positions of ice observed in the North Atlantic during NOVEMBER is given. Ice sighted between OCTOBER 1st and 27th, 1936 is indicated by symbol in the position reported, the figure giving the day of the month in October. Information regarding ice conditions in Greenland waters and the Gulf of St. Lawrence will be published when available. Coastal wireless stations, with their call signs, which transmit ice signals are indicated by the symbol (⊕).

Ice symbols used on the chart: — Iceberg, = growler, xxx Field or other flat ice.

LANE ROUTES IN FORCE DURING NOVEMBER

- (C) From 1st July to 10th April, inclusive.
- (F) From 16th May to opening of Belle Isle route Westbound, on approaching Cape Race steer a course to pass 10 miles S. of Cape Race.
- (G) Eastbound, steer from position 25 miles S. of Cape Race.
- (G) From the opening of the Straits of Belle Isle to 14th November.



EXCEPTIONAL POSITIONS OF ICE.

Date.	Ship or Source of Report.	Position. Lat. Long.	Remarks.
Nov. 7, 1932	Cape Race W.T. Stn.	47°38'N. 40°04'W.	Berg and growlers.

ICE IN GREENLAND WATERS.

INFORMATION RECEIVED BY CABLEGRAM FROM DANISH METEOROLOGICAL INSTITUTE, COPENHAGEN.

Friday, 23rd October.—Free of ice 20 miles off Cape Farewell. Julianehaab Bay free of ice.

CORRECTIONS

UP TO OCTOBER 19TH, 1936.

MADE SINCE PUBLICATION OF THE OCTOBER, 1936 MARINE OBSERVER

FLEET LIST.

Additions.		Deletions		Alterations.			
Name of Vessel.	Met. Equipt.	Name of Vessel.	Met. Equipt.	Name of Vessel.	Met. Equipt.	Name of Vessel.	Met. Equipt.
†† City of London ...	S.	055*† Actor ...	M.	129†† Alcantara ...	S.	to 129†† Alcantara ...	M-S.
*† Mahia ...	S.	043†† Berengaria ...	S.	*† City of Canton ...	M.	to 033*† City of Canton ...	M.
†† William Scoresby, R.R.S.	ML.	109*† El Paraguay ...	M.	*† Clan Morrison ...	S.	to 109*† Clan Morrison ...	S.
		033†† Empress of Australia.	S.	†† Dunvegan Castle, M.V.	S.	to 043†† Dunvegan Castle, M.V.	S.
		105†† Orsova ...	S.	†† Oronsay ...	S.	to 055†† Oronsay ...	S.
				†† Rangitiki, M.V. ...	M-S.	to 105†† Rangitiki M.V. ...	M-S.

NOTICES TO MARINE OBSERVERS.

A NEW ATLAS OF CURRENTS OF THE INDIAN OCEAN.

INDIAN OCEAN CURRENTS M.O. 392.

A limited number of copies of this Atlas are available for supply as equipment of regular observing ships.

Commanders of regular observing ships in the fleet list in the "Marine Observer" navigating the Indian Ocean, Red Sea and China Sea, who wish their ships to be supplied with this Atlas, should make written application to the appropriate Port Meteorological Officer or Merchant Navy Agent.

This Atlas is on sale at H.M. Stationery Office, price 10/-, and marine observers are asked to call the attention of the commanders of ships who are not regular observers to this fact.

COVER FOR MARINE OBSERVER.

Marine observers, regular recipients and subscribers to this Journal are informed that a binding cover for Volume XIII of "The Marine Observer" may be obtained from H.M. Stationery Office, through any bookseller, price 2s.

The arrangements for assembling the numbers for binding is described in the October, 1936 number page 122.

It should be clearly understood that this cover is not the cover used for binding "Excellent" awards, which is far superior: but it will be found to be of good quality and a useful means of preserving the yearly numbers, for which a title page is issued with each October number.

LONDON

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To be purchased directly from H.M. STATIONERY OFFICE at the following addresses: Adastral House, Kingsway, London, W.C.2; 120 George Street, Edinburgh 2; 26 York Street, Manchester 1; 1 St. Andrew's Crescent, Cardiff; 80 Chichester Street, Belfast; or through any bookseller

1936. Price 6d. net.

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