

## 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 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 366 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.

All ships fitted with W/T are advised to procure the DECODE for use with the International Code for Wireless Weather Messages from Ships, M.O. Pubn. 329, which can be obtained from H.M. Stationery Office, price 3d. This gives a description of the system of communication of "Selected Ships," as well as the DECODE.

For guidance in the practical use of wireless weather intelligence, WIRELESS AND WEATHER AN AID TO NAVIGATION may be obtained from H.M. Stationery Office, through any bookseller, price 5s.

## 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 324, Adastral House, Kingsway, W.C.2.  
(Telephone No.: Holborn 3434 Extension 421).  
Nearest station Temple, District Railway.

THAMES ... Lieut. 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).

BRISTOL ... Captain T. JOHNSTON, Technical College, Cathays  
CHANNEL Park, Cardiff. (Telephone No.: Cardiff 6813).

## Agents.

Agents (contd.).  
CLYDE ... Mr. ROBERT CLEARY, Master Mariner, The  
Clutha Stevedoring Co., Ltd., Princes Dock,  
Glasgow. (Telephone No.: 513 Ibrox).  
FORTH ... Captain C. G. BONNER, V.C., D.S.C., Leith Salvage  
and Towage Co., Ltd., 2, Commercial Street,  
Leith.  
HONG KONG, Lieut. Commander E. H. C. BRANSON, R.N.,  
China. 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 Buildings.  
SYDNEY, Commander G. D. WILLIAMS, D.S.O., R.D., R.N.R.  
New South Wales. 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.	
<b>NORTH SEA.</b>							
2.11.33	51°26'N.	1°35'E.	Heavy spar with three casks attached one end, dangerous to navigation.	9.11.33	37°14'N.	69°42'W.	Black can buoy.
2.11.33	51°25'N.	2°05'E.	Red buoy with flag white and red and two lamps, marked N.S.N.	20.11.33	51°24'N.	24°40'W.	Bell Buoy, light extinguished, bell ringing, approx. 6 feet above water, dangerous to navigation.
<b>NORTH ATLANTIC.</b>							
2.11.33	20°47'N.	74°42'W.	Log about 25 ft. long, 1½ ft. diameter.	<b>NORTH PACIFIC.</b>			
				3.11.33	28°12'N.	146°36'W.	Log, 3 feet in diameter.



# CHART OF THE WESTERN NORTH ATLANTIC.

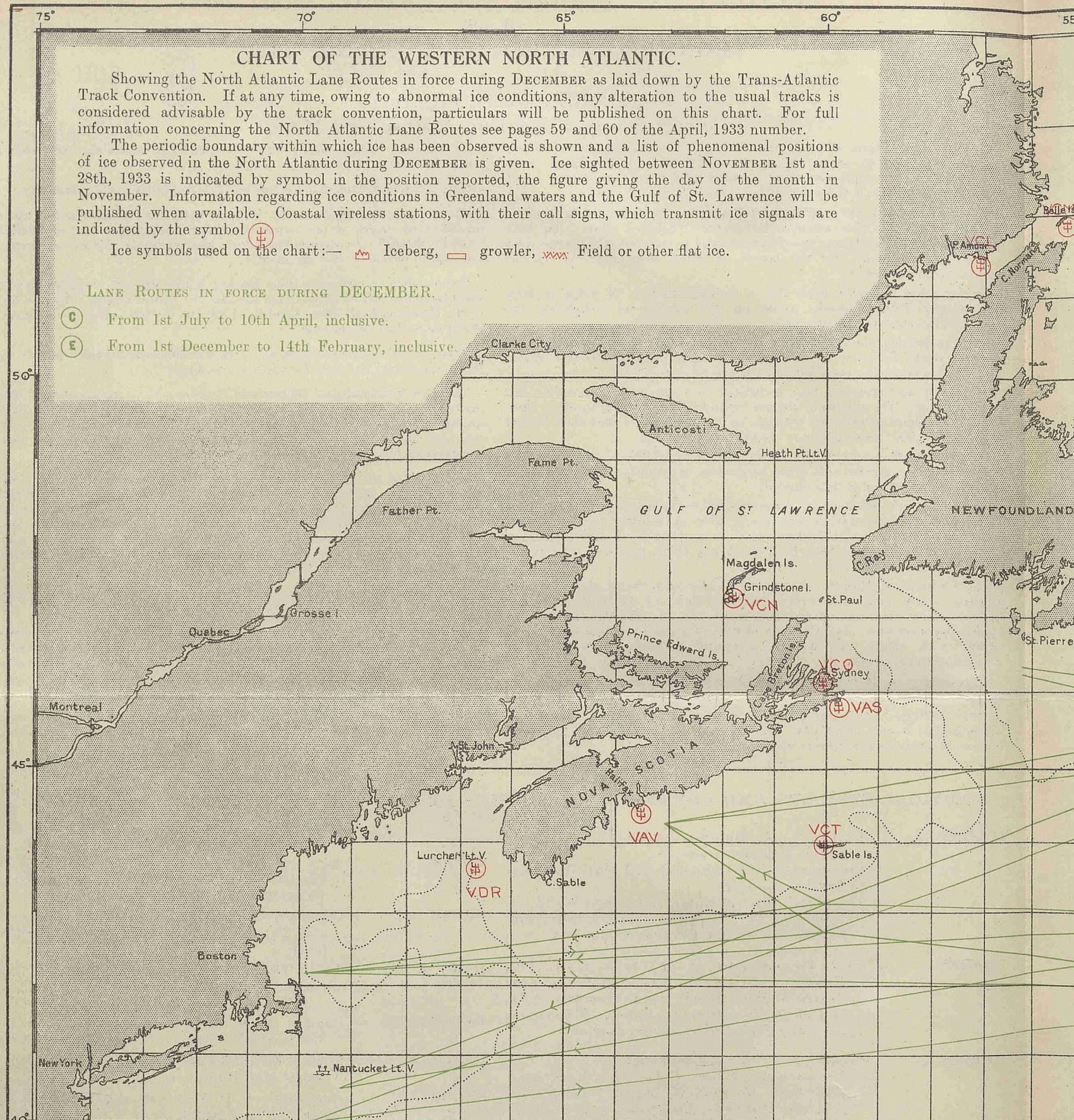
Showing the North Atlantic Lane Routes in force during DECEMBER as laid down by the Trans-Atlantic Track Convention. If at any time, owing to abnormal ice conditions, any alteration to the usual tracks is considered advisable by the track convention, particulars will be published on this chart. For full information concerning the North Atlantic Lane Routes see pages 59 and 60 of the April, 1933 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 DECEMBER is given. Ice sighted between NOVEMBER 1st and 28th, 1933 is indicated by symbol in the position reported, the figure giving the day of the month in November. 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,  Field or other flat ice.

## LANE ROUTES IN FORCE DURING DECEMBER.

- (C) From 1st July to 10th April, inclusive.
- (E) From 1st December to 14th February, inclusive.



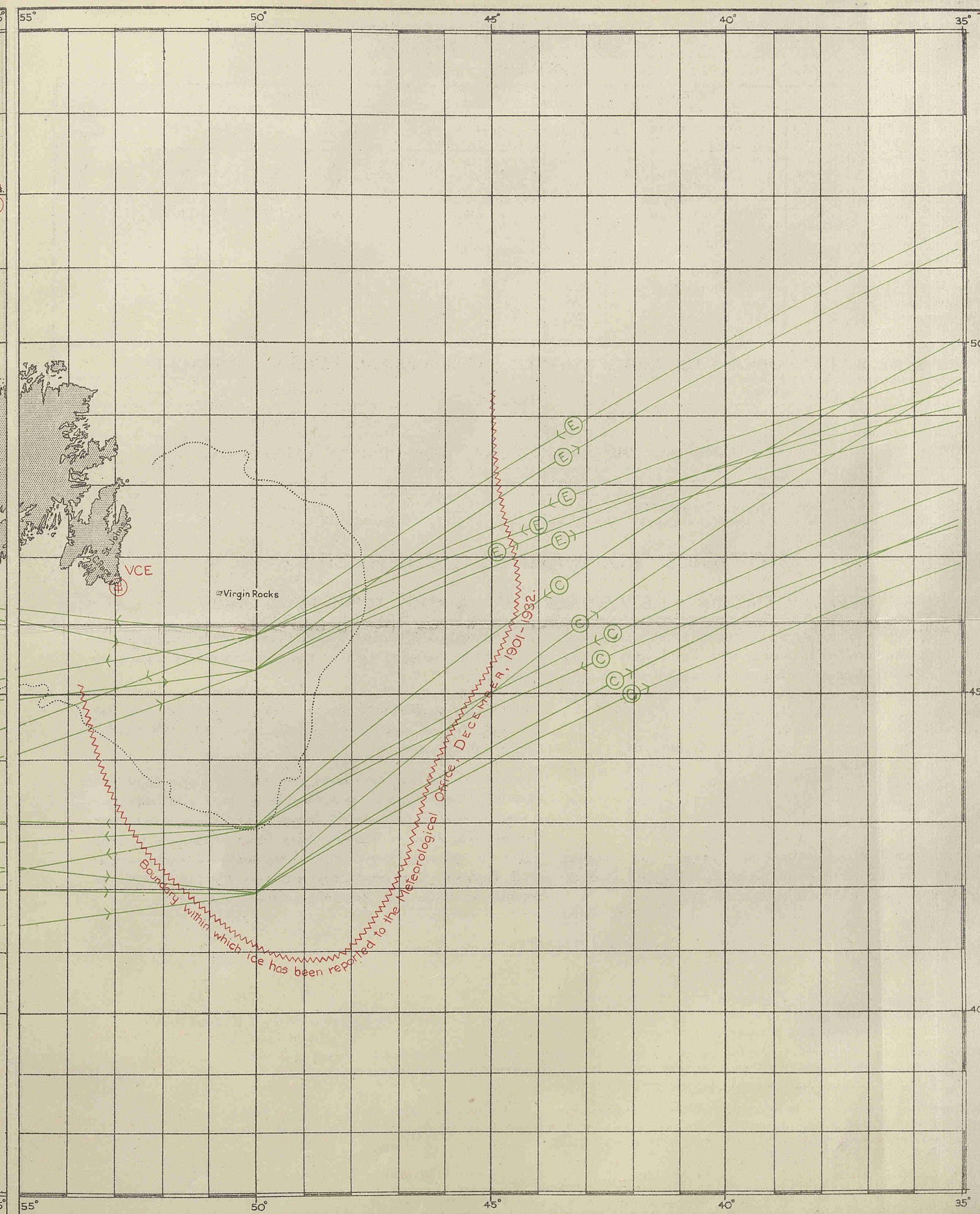
## LATEST ICE REPORT FROM CANADA.

The following cablegram, dated 24th November, 1933, was received from the Canadian Signal Service, Quebec:—

“Montreal to Sorel, light open ice inshore; Three Rivers to St. Nicholas, light open ice everywhere; Quebec to Murray Bay, light close packed ice everywhere; other points along St. Lawrence, no ice in sight.”

## PHENOMENAL POSITIONS OF ICE.

Date.	Ship or Source of Report.	Position.	Remarks.
Dec. —, 1903	S.S. Lord Antrim ...	42°00' N. 55°00' W.	Ice.
“ 22, 1915	S.S. Carolyn ...	42°53' N. 57°39' W.	Large Berg.
“ 16, 1920	S.S. Oriana ...	43°53' N. 44°39' W.	Berg.
“ 16, 1927	S.S. Ascania ...	47°52' N. 40°50' W. (Approximate).	Four large Bergs





# CORRECTIONS

UP TO NOVEMBER 20TH 1933.

MADE SINCE PUBLICATION OF THE OCTOBER, 1933 MARINE OBSERVER  
AND SUPPLEMENT No. 1, NOVEMBER 1933.

## 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.
Amarapoora ...	S.	Architect ...	M.	Canonesa... ..	M.	to 259 *† Canonesa... ..	M.
British Corporal ...	M.	282 *† Carinthia... ..	S.	Designer ... ..	M.	to 138 *† Designer ... ..	M.
British Enterprise	M.	City of Lincoln ...	M.	Phemius ... ..	S.	to 282 *† Phemius ... ..	S.
City of Lyons ...	M.	259 *† Clan Sinclair ...	S.	City of Tokio ... ..	S.	to 167 *† City of Tokio ...	S.
066 †† City of Nagpur ...	S.	290 †† Doric ... ..	S.				
City of Yokohama	S.	066 †† Empress of	S.				
290 *† Dumana ... ..	M.	Australia.					
101 *† Mahia ... ..	S.	167 †† Lancastria ...	S.				
Port Hardy ... ..	S.	138 †† Minnetonka ...	M-S.				
St. Keverne ... ..	A.	St. Minver ... ..	A.				
274 *† Sultan Star ...	M.	274 †† Vandyck ... ..	S.				
		101 †† Voltaire ... ..	S.				

## SHIPS WATER SAMPLING THE NORTH ATLANTIC. FISHERIES LABORATORY, LOWESTOFT.

Additions.	Deletions.
—	Deseado, Dorelian.

## SHIPS WATER SAMPLING THE ARABIAN SEA, JOHN MURRAY EXPEDITION.

Additions.	Deletions.
Gloucestershire, Clan Macvicar, Tarantia, Worcestershire, Elysia.	Mundra.

## NOTICES TO MARINE OBSERVERS.

### REPLENISHMENT OF STATIONERY ON BOARD OBSERVING SHIPS

In order that all observing ships may receive suitable supplies of stationery, the following forms are sent to these Commanders by post from the Air Ministry Publications Department monthly, according to the branch of work done by the ships, with the Marine Observer or Supplement.

Ships Meteorological Record ... ..	Form 911
Wireless Register ... ..	Form 138
Signal Pad ... ..	Form 139
Ice Report ... ..	Form 912
Blue Post Card... ..	Form 913

Sufficient of these forms are sent for recording and returning observations, allowing for observing ships being at sea upon an average of three weeks in four throughout the year.

The Meteorological Log and Original Note Book are replenished by the Port Meteorological Officers and Merchant Navy Agents as necessary.

Outline Charts, Barograph Forms, Forms for observation of Sea and Swell, &c., are supplied as necessary through the Port Meteorological Officers and Agents.

Some observing ships have found their monthly supply insufficient while others have found it too much. It will be a great assistance if principal observing officers will kindly notify the appropriate Port Meteorological Officer or Merchant Navy Agent, at the time when he makes his quarterly inspection of instruments, of any shortage; or if they will then return any stationery which is surplus to requirements to the Port Meteorological Office or Agency.

## LATE NOTICES.

The January 1934 number will be published on December 27th, 1933.

In the January 1934 number of "The Marine Observer," the description of the Selected Ship Routine Wireless Weather Reporting Service in all parts of the world will be revised, brought up-to-date and clarified.

The instructions for the guidance of commanders, observing officers and W/T operators of British Selected Ships will be simplified as far as possible to meet the demands made upon the service which have grown since it was established on 1st May, 1930.

The attention of Commanders of British ships is invited to this.

The attention of the Meteorological Services of the Dominions and other countries who desire the assistance of British shipping in this matter of Weather reports from the sea is also invited to this, for it is essential that the shore stations and the ships working this system should have the same information for smooth and efficient working.

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  
York Street, Manchester 1; 1, St. Andrew's Crescent, Cardiff; 15, Donegall Square West, Belfast; or through any Bookseller

1933 Price 9d. Net.