

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 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.

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.	AGENTS (contd.).	CLYDE ... ..	Mr. ROBERT CLEARY, Master Mariner, The Clutha Stevedoring Co., Ltd., Princes Dock, Glasgow. (Telephone No.: 513 Ibrox).
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).	FORTH ... ..	Captain C. G. BONNER, V.C. D.S.C., Leith Salvage and Towage Co., Ltd., 2, Commercial Street, Leith.	
MERSEY ... ..	Commander M. CRESSWELL, R.N.R., Port Meteorological Officer, Dock Office, Liverpool. (Telephone No.: Bank 8959. Telegraphic Address: Meteorite, Liverpool).	HONG KONG, China.	Lieut. Commander E. H. C. BRANSON, R.N., Chart Depot, H.M. Dockyard. (Telephone No.: 108 Dockyard).	
BRISTOL CHANNEL	Captain T. JOHNSTON, Technical College, Cathays Park, Cardiff. (Telephone No.: Cardiff 6813).	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, New South Wales.	Commander G. D. WILLIAMS, D.S.O., R.D., R.N.R. 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>ENGLISH CHANNEL.</b>				<b>MEDITERRANEAN.</b>			
11.4.34	50°27'N.	0°18'W.	Passed spar floating vertically, dangerous to navigation.	10.4.34	37°48'N.	9°09'E.	Can buoy, painted red above, white below, dangerous to navigation.
<b>NORTH ATLANTIC.</b>				<b>GULF OF MEXICO.</b>			
6.4.34	38°33'N.	75°05'W.	Log about 30 feet long.	4.4.34	26°04'N.	90°15'W.	Forked tree 50 feet long, 6 feet diameter and covered with marine growth.
10.4.34	44°37'N.	9°00'W.	Floating light.				
16.4.34	45°27'N.	7°48'W.	Large floating log, dangerous to navigation.				

# CHART OF THE WESTERN NORTH ATLANTIC.

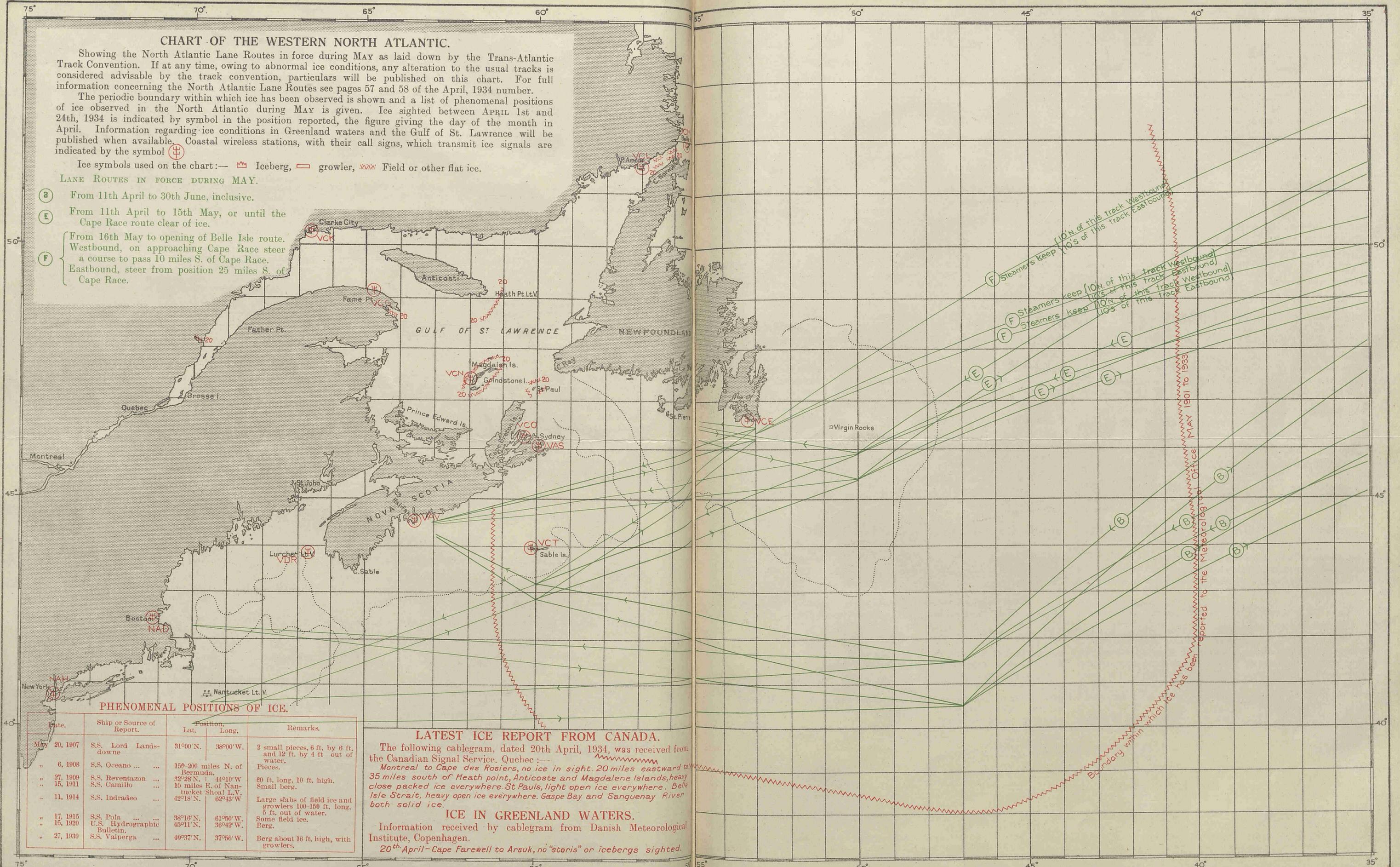
Showing the North Atlantic Lane Routes in force during MAY as laid down by the Trans-Atlantic Track Convention. If at any time, owing to abnormal ice conditions, any alteration to the usual tracks is considered advisable by the track convention, particulars will be published on this chart. For full information concerning the North Atlantic Lane Routes see pages 57 and 58 of the April, 1934 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 MAY is given. Ice sighted between APRIL 1st and 24th, 1934 is indicated by symbol in the position reported, the figure giving the day of the month in April. 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  $\oplus$ .

Ice symbols used on the chart:  $\square$  Iceberg,  $\square$  growler,  $\text{wavy}$  Field or other flat ice.

## LANE ROUTES IN FORCE DURING MAY.

- (B) From 11th April to 30th June, inclusive.
- (E) From 11th April to 15th May, or until the Cape Race route clear of ice.
- (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. Eastbound, steer from position 25 miles S. of Cape Race.



## PHENOMENAL POSITIONS OF ICE.

Date.	Ship or Source of Report.	Position.		Remarks.
		Lat.	Long.	
May 20, 1907	S.S. Lord Landsdowne	31°00' N.	38°00' W.	2 small pieces, 6 ft. by 6 ft. and 12 ft. by 4 ft. out of water.
" 6, 1908	S.S. Oceano ...	150-200 miles N. of Bermuda.		Pieces.
" 27, 1909	S.S. Reventazon ...	32°28' N. 1 44°10' W		60 ft. long, 10 ft. high. Small berg.
" 15, 1911	S.S. Camillo ...	10 miles E. of Nantucket Shoal L.V.		
" 11, 1914	S.S. Indradeo ...	42°18' N. 62°43' W		Large slabs of field ice and growlers 100-150 ft. long, 5 ft. out of water.
" 17, 1915	S.S. Pola ...	38°16' N. 61°50' W.		Some field ice.
" 15, 1920	U.S. Hydrographic Bulletin	45°11' N. 36°42' W.		Berg.
" 27, 1930	S.S. Valperga ...	40°37' N. 37°50' W.		Berg about 16 ft. high, with growlers.

## LATEST ICE REPORT FROM CANADA.

The following cablegram, dated 20th April, 1934, was received from the Canadian Signal Service, Quebec:—  
 Montreal to Cape des Rosiers, no ice in sight. 20 miles eastward to 35 miles south of Heath point, Anticoste and Magdalene Islands, heavy close packed ice everywhere. St Pauls, light open ice everywhere. Belle Isle Strait, heavy open ice everywhere. Gaspe Bay and Sanguenay River both solid ice.

## ICE IN GREENLAND WATERS.

Information received by cablegram from Danish Meteorological Institute, Copenhagen.  
 20th April—Cape Farewell to Arsuk, no "storis" or icebergs sighted.

## CORRECTIONS

UP TO APRIL 16TH 1934.

MADE SINCE PUBLICATION OF THE APRIL 1934 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.
Doric ... ..	S.	026 †† Homeric ... ..	S.	Alcantara ...	S.	to 135 †† Alcantara ...	S.
				Glenbank ...	S.	to 026 *† Glenbank ...	S.
				253*† Hertford ...	ML.	to Hertford ...	ML.
				Port Dunedin ...	S.	to 253 *† Port Dunedin ...	S.
				135*† Port Hunter ...	ML.	to Port Hunter ...	ML.

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

Additions.	Deletions.
Dorelian.	—

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

Additions.	Deletions.
—	City of Simla.

## NOTICES TO MARINE OBSERVERS.

## AVOID UNNECESSARY DUPLICATION OR MULTIPLICATION OF VOLUNTARY WORK AT SEA.

The special attention of commanders of British ships is invited to THE MARINE OBSERVER'S HANDBOOK (1930) p. 10, paragraph 5 which reads as follows:—

“All observations are available by mutual arrangement for exchange with colonial and foreign meteorological services, and are, therefore, made according to agreement reached through the International Commission for Marine Meteorology.”

In order that voluntary meteorological work at sea should not be duplicated or multiplied, it was agreed in 1929 by the International Meteorological Conference that ships should only be asked to make written returns of routine observations to the Weather Office of the

country in which they were registered. The Selected Ship System was agreed to internationally in order to secure better organization, uniformity of practice and prevention of unnecessary work being imposed upon the Commander, Officers or Wireless Operators of ships.

Commanders of British observing ships are accordingly requested to send in their written returns regularly through the appropriate Port Meteorological Officers and Agents or direct to the Meteorological Office, London (as indicated on those returns) and to adhere as far as possible to the advice given them, for the conduct of the work, in THE MARINE OBSERVER. The Commanders of British Observing Ships are advised to refer requests for written observations from other state institutions to the Meteorological Office, London.

## SPECIAL COURSE OF LECTURES FOR OFFICERS OF THE MERCHANT NAVY.

At Liverpool and in London, Commander M. CRESSWELL, R.N.R., and Lieutenant Commander C. H. WILLIAMS, R.N.R., are at the present time giving a course of lectures on the practical application of meteorological work to navigation.

These lectures will be continued into the early summer, and are given

at short intervals, usually about once a fortnight, the time and place being notified through the Marine Superintendents of the Shipping Companies.

All officers wishing to attend are advised to enquire at the Port Meteorological Office for information of time, date and place.

## ICE REPORTS (FORM 912).

Ice Report Forms are supplied with the MARINE OBSERVER or Supplement each month to all regular observing ships employed in the Trans North Atlantic and Southern Ocean trades. They may also be obtained by any British ship on application to the Port Meteorological Officers or Agents, addresses of whom are given on the front page of this Supplement.

Commanders of ships in these trades are asked to have this form

completed and returned without delay at the end of each passage. A nil return is desired should no ice be sighted.

Selected Ships on the Trade Routes of the Southern Ocean are requested to add to their routine Wireless Weather reports information of floating ice seen or reported within the last 24 hours so that this information may be disseminated to the utmost advantage of all concerned.

## LATE NOTICES

The July Number of the Marine Observer will be published on June 27<sup>th</sup> 1934.

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; 80, Chichester Street, Belfast; or through any Bookseller

1934 Price 6d. Net.