of these weather bulletins, and to the methods and times of transmissions. It is hoped that the messages will eventually all be made in an international code at fixed times, so arranged that a ship with only one wireless operator will be able to read them. A similar scheme for time-signals is being evolved.

COLLECTION OF WEATHER DATA FROM SHIPS.

4. Certain ships are being asked to supply data regularly three times a day whenever they are within a certain distance of any of some six or eight "observation points" in the north-eastern Atlantic.

5. In addition to the regular observations, which are taken

5. In addition to the regular observations, which are taken at 0100, 0700, and 1300 Greenwich time and sent as soon as possible to Malin Head (GMH) or Valentia (GCK) coast stations, these ships may, on request from either of these coast stations, send special data messages at other times.

6. The procedure for a ship which intends to send a data message will be as follows: As soon as it has been decided to make the data message (i.e., normally at about 0100, 0700, or 1300) the ship makes to "all ships" (CQ) the word "weather," followed by a number which indicates the "observation point" (see para. 4 above), near which she is at the time.

at the time.

\* Application is being made to Berne to allot an international three-letter abbreviation to mean: "Am about to make weather data from observation point number."

7. This warning message will not be answered by any ship or station; it is merely designed—

(a.) To inform all ships within range that a report is about to be made and that they should therefore avoid

interfering.

(b.) To inform all other ships supplying weather data, which may be in the vicinity of the same observation point, that, one ship having decided to make a supplying the same observation point. report, it is unnecessary for them to make one also. 8. About five or ten minutes after the ship has made the warning as above, she may be expected to transmit the data message itself. The normal or regular "data message" warning as above, she may be expected to transmit the data message itself. The normal or regular "data message" consists of four groups of five figures each; the special data message is of two groups of five figures each. All data messages bear the one word "weather"; as the address, and conclude with a "time of origin" of four figures. The message will be sent to Malin Head (GMH) or Valentia (GCK), according to the position of the "observation point."

† Application is being made to Berne to allot an international three-letter abbreviation to mean: "Following are normal (or special) weather data."

9. It should be noted that several of the observation points are no front to see that the coast stations although provided

are so far out to sea that the coast stations, although provided are so far out to sea that the coast stations, although provided with extra sensitive receiving gear, will be unable to read the messages unless all ships help by keeping quiet. In particular, ships working near Malin Head or Valentia should be on the watch for the coast station making "Go on" (K) or "Repeat" (UD) to a ship whose transmission they them selves cannot hear. It is hoped that ships will so co-operate in this matter that it will be unnecessary to arrange international "silent periods" to enable these long-range data messages to be read by the coast stations.

10. The coast stations, on receiving these data messages.

10. The coast stations, on receiving these data messages, will possibly have to forward them to London by wireless. They would use continuous wave for this purpose, and would therefore not be heard by ships not fitted with special receivers. Ships should therefore be prepared to find that

receivers. Ships should therefore be prepared to find that Valentia or Malin Head could not attend to calls for a few minutes after receipt of one of these data messages.

11. The "special" data messages referred to in paragraph 5 above are only made when the Meteorological Office finds its information pointing to the existence of peculiar conditions in a certain area. In such cases the office directs Valentia or Malin Head to ask for reports. The shore station then sends to "any British ship supplying weather data" the word "weather" followed, if necessary, by the number of the observation point from which a special data message is desired. This word would not be answered by ships; but ships addressed, which were in the vicinity of any (or of the specified) dressed, which were in the vicinity of any (or of the specified) observation point, would verify their position, make the warning signal to "All ships," take observations, and pass in the special data message as above described for the regular

The call letters BVD are being given this signification.

¶ Application is being make to Berne to allot an international three-letter abbreviation to mean: "Please give special weather data (from observation point number )."

ISSUE OF WEATHER BULLETINS TO SHIPS.

- 12. A wireless weather bulletin may contain both or either of the following:—
  (a.) A weather report, which is an official statement of
- existing weather conditions; and/or
- (b.) A weather forecast, which is an official opinion of probable future weather conditions.
- 13. The accompanying schedule of wireless weather bulletins is intended to provide, in a form suitable to give all infor-

mation required by the wireless operator, a complete and up-to-date list of all weather bulletins transmitted at fixed times by wireless stations throughout the world. The same information will be found in detail in the Sailing Directions and in the International List of Radio-telegraph Stations (the Berne List).

14. The times given in the third column of the schedule are expressed in the four-figure notation employed for signal-ling during the war. The term "G.M.T." here means the civil mean time of the meridian of Greenwich, with the day commencing at midnight and the hours reckoned from 00 to 23.

15. Operators are reminded that Article 45 of the Inter-

national Service Regulations imposes the general obligation of not interfering with reception of weather bulletins by other

16. Certain other stations not shown in the schedule supply weather bulletins on demand, generally at reduced charges. Particulars will be found in the Berne List.

Schedule of Wireless Weather Bulletins.

Wireless Station.	Call Letters. (2)	Time (G.M.T.). (8)	Wave (Metres). (4)
Australasia-			
Adelaide Radio	VIA	0900, 1030	600
Brisbane Radio	VIB	1230, 1300	600
Hobart Radio	VIH	1200	600
Melbourne Radio	VIM	0930, 1100	600
Sydney Radio (Pennant Hills)	VIS	••	600
Awanui Radio	VLA	ነ .	-
Awarua Radio	VLB	11	
Wellington Radio	VLW	>No details	No details
Chatham Is			
_ Macquarie Is. Radio	VIQ	IJ	
Brazil— Ilha do Governador	вон	0000*	1800
CHINA— Shanghai-Zikawei	FFZ	0300*, 0900	600
FRANCE-			
Eiffel Tower	FL	0945†, 2330*	2500
FRENCH OCEANIA-			
Papeete, Ile Tahiti	FOP	1100, 2300	600
GERMANY-	1		
Norddeich	KAV	1200*, 2200	1650
GREAT BRITAIN-	1		
Poldhu‡	MPD	0930, 2130	2700
Cleethorpes:	BYB	0500, 1700	3000
Hawaiian Is.— Pearl Harbour	NPM	{ 0230, 0630 } { 1830, 2230 }	? 600
Holland			
Scheveningen	PCH	1115, 2315	1800
India-	-		
Calcutta Radio	VWC	0730*, 1910	2000
Karachi Radio	VWK	} 0730, 1910 <b></b>	2000
Rangoon Radio	VTR	30750, 1910 {	1200
Bombay Radio Madras Radio	VMB		2000
Madras Radio	VWM	<b>⟩0740,1920</b> ⊰	2000
Port Blair	VTP		1200
Japan			
Choshi	JCS	1200*	600
Dairenwan	JDA	1200	600
Fukkukaku	JKF	1130	600
Mexico-			
Campeche	XAB	1)	1 22
Guayamas	XAH		
Mazatlan de Sinaloa		<b>1837 *</b>	600
Payo Obispo			
Vera Cruz	XAA	J.	
Samoa		40000 0000	
Tutuila	NPU	(0330,0730)	600
		₹ 1930, 2330 ∫	
South Africa-	MATC	1115	600
Capetown Radio	MNC	. 1115	
Durban Radio	VND	1115	600
SPAIN—	EGG	1330	2000
Madrid	EGG	1990	2000
United States-	NIAA	0300*	2500
Washington		0300*	1500
Key West	NAR	0600*	600 & 950
S. Francisco	NPH	0600	600 & 950
North Head			600 & 950
S. Diego	NPL	0600	000 ox 990

\* Weather bulletin follows a time signal. † Weather † Will be started · bulletin is followed by time-signal. shortly.

This notice will be subject to revision from time Note. to time.