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UNITED STATES DEPARTMENT OF COMMERCE  
WEATHER BUREAU

ATTENTION:  
RADIO OFFICER

WEATHER SERVICE  
For  
MERCHANT SHIPPING

FIFTH EDITION

Washington  
July 1955

U. S. WEATHER BUREAU  
215 CUSTOM HOUSE  
SAN FRANCISCO 11, CALIF.

UNITED STATES DEPARTMENT OF COMMERCE  
SINCLAIR WEEKS, Secretary  
WEATHER BUREAU  
F. W. REICHELDERFER, Chief

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## INTRODUCTION

This publication contains schedules of the principal marine weather broadcasts of interest to U. S. merchant ships. The broadcasts listed include weather forecasts and warnings covering all major ocean areas of the world for which such service is available. In addition, many of the broadcasts contain collections of ship and land station reports suitable for preparing marine weather maps on ship-board. In practically all of the broadcasts the warnings and forecasts are given in English, or if given in a different language are repeated in English either automatically or on request.

The schedules are arranged in five sections according to ocean areas: North Atlantic, South Atlantic, Mediterranean and Indian Ocean, North Pacific and South Pacific. In each section, individual broadcasts are listed according to a west to east and north to south pattern of forecast coverage.

In the station schedules the areas covered by the weather forecasts are given under "Area Affected". Different classes of information broadcast are indicated by Key Words such as SYNOP, etc. A list of these with their meanings appears in the Appendix, which also contains the various weather code forms used with their FM numbers. All broadcasts are by radiotelegraph except those with frequencies designated as (A3) which are radiotelephone. A frequency listing preceded by the letter (D) or (N) means that it is generally employed only during daylight or night hours, respectively.

In the lists of land station reports included in the bulletins, a station index number given in parentheses indicates that the station is an alternate for the one immediately preceding; the letter (P) following a name means that upper wind (PILOT) reports for the station are included in the bulletins; the letter (T) that upper air temperature and humidity (TEMP) reports are included.

Decoding tables for the ship code (FM 21A, FM 22A, and FM 23A) and the first five groups of the land station code (FM 11A) are contained in publication entitled "International Code for Radio Weather Reports from Ships", which generally will be sufficient for decoding bulletins of land and ship station reports, as broadcast bulletins usually do not give more than the first five groups of the land station reports. Other publications of interest to mariners using the marine weather bulletins are "International Analysis Code, I.A.C. Fleet (FM 46A)" and "Circular R - Preparation and Use of Weather Maps at Sea". All of these publications as well as upper air codes, if desired, and blank weather map bases "WB 1552 Radio Weather Map North Atlantic" and "WB 1557 Radio Weather Map North Pacific" are available to cooperating vessels on application to Chief, U.S. Weather Bureau, Washington 25, D. C., or any Weather Bureau port office.

Comments, suggestions or information on changes in weather schedules pertinent to this publication will be welcomed from users. Such information should be addressed to Chief, U.S. Weather Bureau, Washington 25, D. C., attention O-5.22.

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## North Atlantic

STATION: Halifax, Nova Scotia (CFH)

AREA AFFECTED: North Atlantic north of latitude 30° N and west of longitude 35° W.

## INFORMATION AVAILABLE

<u>Type of Report</u>	<u>Code</u>
GALE/STORM/HURRICANE WARNINGS	Plain language
For Area Affected	
FORECASTS	Plain language
(a) Coastal waters, eastern Canada	
(b) Coastal waters, Newfoundland	
(c) Greenland fishing areas	
(d) For Area Affected	
ANALYSIS	FM 46A
For area from 10° N to 80° N and between 35° W and 100° W	
ICE BULLETINS	Plain language

## SCHEDULE OF TRANSMISSIONS

Time of Trans- mission G.C.T.	Call Sign	Frequency KC.	Contents of Transmissions	Remarks
0130	CFH	115.3 } 4271 6425 8542 12813 17084	ICE BULLETINS	(1) Coastal forecasts at 0530, 0900 and 1330 are valid until local midnight same day; those at 1730 and 2100 until local midnight following day. (2) Forecasts (d) at 0900 and 2100 are rebroadcasts of Parts I and II of the 0600 and 1800 G.C.T. NSS Washington transmissions.
0530	"	"	FORECASTS (a)	
0848	"	"	ANALYSIS	
0900	"	"	WARNINGS FORECASTS (b), (c), (d)	
1330	"	115.3 } 4271 6425 8542 12813 17084 22629	ICE BULLETINS FORECASTS (a)	
1730	"	"	FORECASTS (b), (c)	
2048	"	115.3 } 4271 6425 8542 12813 17084	ANALYSIS	
2100	"	"	WARNINGS FORECASTS (a), (b), (d)	

## North Atlantic

STATION: Washington, D.C., U.S.A. (NSS)

AREA AFFECTED: North Atlantic north of latitude 3° N and west of longitude 35° W, including Gulf of Mexico and Caribbean Sea.

## INFORMATION AVAILABLE

<u>Type of Report</u>	<u>Code</u>
GALE/STORM/HURRICANE/WARNINGS (Part I) For area affected.	Plain language
FORECASTS (Parts I and II) For area affected.	Plain language
ANALYSIS (Part III) North America and North Atlantic between latitude 10° N and 80° N, and from longitude 35° W to 100° W.	FM 46A
SHIPS (Part IV) Selected ship observations including ocean station vessel reports.	FM 23A+PPPTT
SYNOP (Part V) Selected island and coastal station reports.	FM 11A (See note 2)

## SCHEDULE OF TRANSMISSIONS

Time of Trans- mission G.C.T.	Call Sign	Frequency KC.	Time of Observa- tions G.C.T.	Contents	Remarks
0035	NSS	121.95 4390 9425 12804 17050.4 22491	1800 " "	WARNINGS FORECASTS ANALYSIS	Notes: (1) Forecasts are for 24 hours beginning at 0000, 0600, 1200 and 1800 GCT. (2) SYNOP are in code form iii Nddff VVwww PPPTT. (3) Silent periods are observed in these broadcasts.
0530	"	"	0000 0030	SHIPS SYNOP	(4) Warnings are headed GALE when winds of force 7 to 9 are expected; STORM for force 10 and above and HURRICANE for force 12 and above when in connection with storms of tropical origin.
0600	"	"	0000 " "	WARNINGS FORECASTS ANALYSIS	(5) For list of SYNOP reports includ- ed in broadcasts see page following.
1130	"	"	0600 0630	SHIPS SYNOP	(6) *162 KC replaces 121.95 KC from 1400 to 2000 GCT on Tuesdays, Wednes- days and Thursdays.
1235	"	"	0600 " "	WARNINGS FORECASTS ANALYSIS	
1730	"	"*	1200 1230	SHIPS SYNOP	
1800	"	"*	1200 "	WARNINGS FORECASTS ANALYSIS	
2330	"	"	1800 1830	SHIPS SYNOP	
On receipt	"	"*	--	SPECIAL WARNINGS	

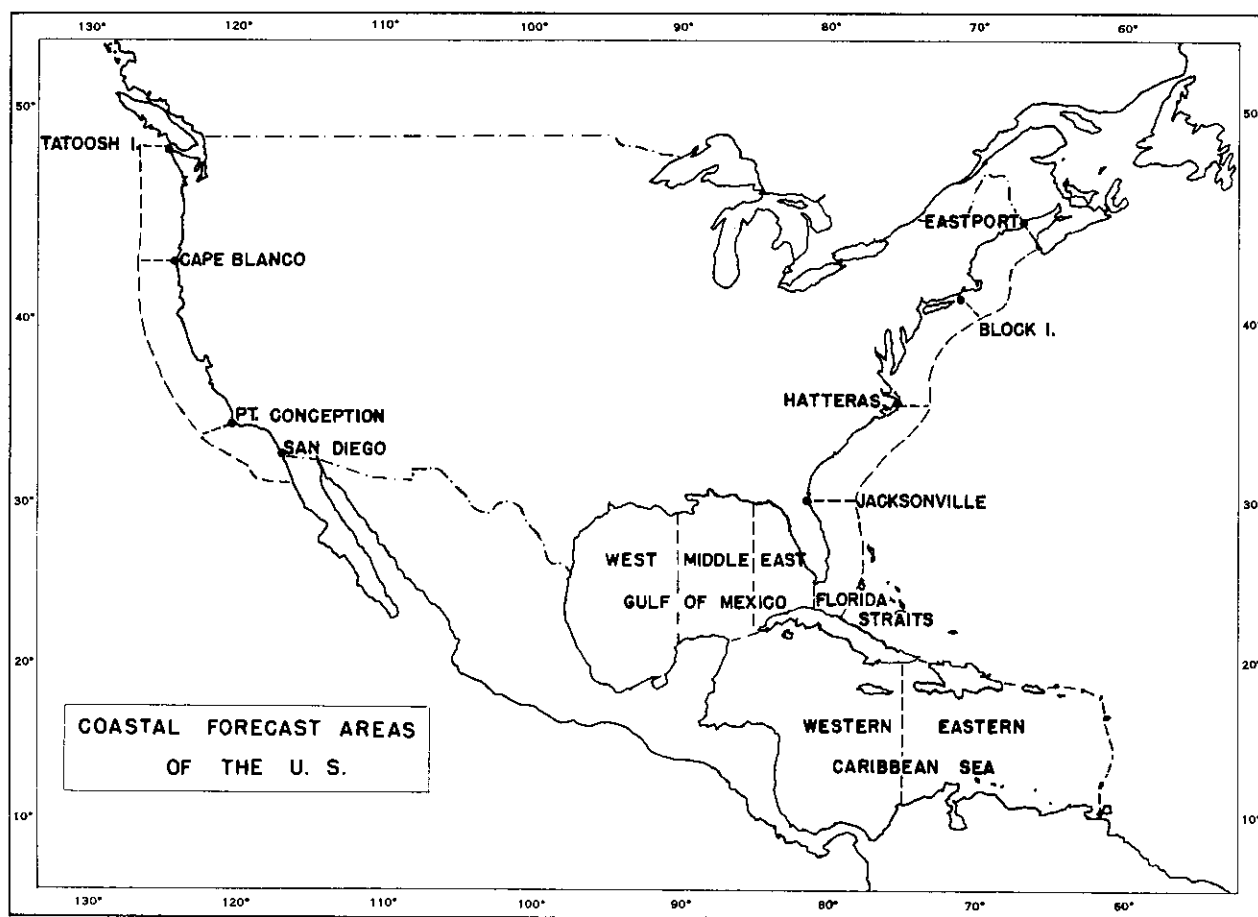


## North Atlantic

Washington, D.C., U.S.A., Continued

List of SYNOP reports included in broadcasts:

Index Number	Name of Station	Index Number	Name of Station	Index Number	Name of Station
72600	Sable Island	72222	Pensacola	72509	Boston
601	Dartmouth	231	New Orleans	74596	Five Fathom Lightship (38°47' N - 74°35' W)
807	Argentia	242	Galveston	78016	Bermuda
809	Belle Isle	304	Hatteras	119	Turks Island
(819)	St. Anthony, Newf.	308	Norfolk	325	Havana
202	Miami	503	New York	501	Swan Island
206	Jacksonville	506	Nantucket	526	San Juan
208	Charleston				



## North Atlantic

STATIONS: Chatham, Mass. (WCC)  
 Boston, Mass. (WOU, NMF)

AREA AFFECTED: Coastal waters of U.S. from

- a) Eastport, Maine to Block Island, R. I.
- b) Block Island to Cape Hatteras, N. C.
- c) Waters north of 40° N and west of 60° W.

## SCHEDULE OF TRANSMISSIONS

Time of Transmission G.C.T.	Call Sign	Frequency KC.	Contents of Transmissions
0050 1250 1650	WCC	{ 436 2036 (N) 4268 (N) 6505.5 8586 8630 12925.5 13033.5 (D) 16973.6 (D) 17271.2	Forecasts, Areas a) and b). Small craft and storm warnings. (Follows traffic lists).
On receipt	WCC	"	Storm warnings.
0050	NMF	466	Forecasts, Area a). Small craft and storm warnings.
1650	NMF	466	Forecasts, Areas a) and c). Small craft and storm warnings.
HH:18 or HH:48 *(2)	NMF	"	Storm warnings.
On receipt and 0420 or 1620 *(3)	NMF	2694 (A3)	Small craft and storm warnings.
0420 1620	WOU	{ 2506 (A3) (D) 2550 (A3)	Forecasts, Areas a) and c). Small craft and storm warnings.
1020 2220	WOU	"	Forecasts, Area a). Small craft and storm warnings.
On receipt and even HH: 20	WOU	"	Small craft and storm warnings.

Notes: (1) For chart showing U.S. coastal forecast areas see page 3.

\*(2) Broadcast is made at the end of the first silent period following receipt of the message at the radio station and is preceded by announcement on 500 KC. If this transmission occurs outside the radio watch hours for single operator ships the warning is repeated at the end of the next silent period falling within the radio watch hours for such vessels. Warnings are also included in the stations' scheduled hydrographic or weather broadcasts.

\*(3) Broadcast is made on receipt of the message at the radio station and is preceded by announcement on 2182 (A3) KC. The warning is repeated at whichever of the given time schedules that next occurs.

## North Atlantic

STATIONS: Amagansett, N. Y. (WSL)  
 New York, N. Y. (WOX, NMY, WNY, WSF)

AREA AFFECTED: Coastal waters of U.S. from  
 a) Eastport, Maine to Block Island, R. I.  
 b) Block Island to Cape Hatteras, N. C.  
 c) Long Island Sound.  
 d) New York harbor.

## SCHEDULE OF TRANSMISSIONS

Time of Transmission G.C.T.	Call Sign	Frequency KC.	Contents of Transmissions
0500	WSL	476	Forecasts, Areas a), b) and c); at 1100 and 2300 only, area d) is included. Small craft and storm warnings.
1100	WSL	{ 476	
1700		{ 112.85	
2300			
1350	WSL	{ 112.85	Local weather at Sandy Hook; storm warnings (follows traffic lists).
2150		{ 476	
		(N) 4343	
		6414.5	
		8514	
		8658	
		12997.5	
		13024.5	
		16997.6	
		17021.6	
On receipt	WSL	"	Storm warnings.
1010	WNY	{ 482	Forecasts, Areas a) and b). Small craft and storm warnings. At 1400 and 2200 only, local weather at Sandy Hook is included.
1400		{ 6519.5	
1610		(D) 13060.5	
2200			
On receipt	WNY	"	Storm warnings.
1405	WSF	442	Local weather at Sandy Hook. Small craft and storm warnings.
2205			
On receipt	WSF	"	Storm warnings. (No broadcasts 0000 to 0800 local time or on Sundays).
HH:18 or HH:48 *(2)	NMY	486	Storm warnings.
On receipt and 0450 or 1650 *(3)	NMY	2662 (A3)	Small craft and storm warnings.
0350	WOX	{ 2522 (A3)	Forecasts, Areas b), c) and d). Small craft and storm warnings.
1550		{ 2590 (A3)	
On receipt and odd HH:50	WOX	"	Small craft and storm warnings.

Notes: See page 4 for notes concerning these broadcasts.

## North Atlantic

STATIONS: Ocean Gate, N. J. (WAQ)  
 Tuckerton, N. J. (WSC)  
 Cape May, N. J. (NMK)  
 Wilmington, Del. (WEH)  
 Baltimore, Md. (WMH, NMX)

AREA AFFECTED: Coastal waters of U.S. from  
 a) Block Island, R. I. to Cape Hatteras, N. C.  
 b) Delaware Bay.  
 c) Chesapeake Bay.

## SCHEDULE OF TRANSMISSIONS

Time of Transmission G.C.T.	Call Sign	Frequency KC.	Contents of Transmissions
0350 1550	WAQ	2558 (A3)	Forecasts, Area a). Small craft and storm warnings.
On receipt and odd HH:50	WAQ	"	Small craft and storm warnings.
1430 2230	WSC	460	Local weather at Sandy Hook. Storm warnings.
On receipt	WSC	"	Storm warnings.
0550 1750	NMK	2662 (A3)	Forecasts, Areas a) and b). Small craft and storm warnings.
On receipt	NMK	2662 (A3)*	Small craft and storm warnings.
0530 1730	WEH	2558 (A3)	Forecasts, Areas a) and b). Small craft and storm warnings.
On receipt and even HH:30	WEH	"	Small craft and storm warnings.
0130 1530	WMH	428	Forecasts, Areas a), b) and c). Small craft and storm warnings. At 1530 only, local weather at Baltimore, Cape Hatteras, Atlantic City, New York, Philadelphia and Norfolk is included.
On receipt and even HH:00	WMH	"	Storm warnings.
1630	NMX	2702 (A3)	Forecasts, Areas a), b) and c). Small craft and storm warnings. Local weather at Baltimore, Annapolis, Aberdeen, Chincoteague, Patuxent and Norfolk.
On receipt	NMX	2702(A3)*	Small craft and storm warnings.

Note: For chart showing U.S. coastal forecast areas see page 3.

\*After call on 2182(A3) KC.

## North Atlantic

STATIONS: Norfolk, Va. (NMN, WGB)  
 Fort Macon, N. C. (NMN 37)  
 Charleston, S. C. (NMB, WJO)  
 Savannah, Ga. (WSV)

AREA AFFECTED: Coastal waters of U.S. from  
 a) Block Island, R. I. to Cape Hatteras, N. C.  
 b) Cape Hatteras to Jacksonville, Fla.  
 c) Jacksonville to Florida Straits.  
 d) Norfolk, Portsmouth and Hampton Roads.

## SCHEDULE OF TRANSMISSIONS

Time of Transmission G.C.T.	Call Sign	Frequency KC.	Contents of Transmissions
HH:18 or HH:48 *(2)	NMN	466	Storm warnings.
On receipt and 0520 or 1720 *(3)	NMN	2702 (A3)	Small craft and storm warnings.
0500 1100 1700 2300	WGB	2538 (A3)	Forecasts, Areas a), b) and d). Small craft and storm warnings.
On receipt and at intervals thereafter	WGB	"	Small craft and storm warnings.
1700	NMN 37	2702 (A3)	Forecasts, Areas a) and b). Small craft and storm warnings.
On receipt*(3)	NMN 37	2702 (A3)	Small craft and storm warnings.
On receipt and 0420 or 1620 *(3)	NMB	2678 (A3)	Small craft and storm warnings.
0430 1630	WJO	2566 (A3)	Forecasts, Area b). Small craft and storm warnings.
On receipt and even HH:00	WJO	"	Small craft and storm warnings.
0235 1435	WSV	<div style="display: inline-block; vertical-align: middle;">           {            434            (N) 6407.5            (D) 12952.5         </div>	Forecasts, Areas a), b) and c). Small craft and storm warnings. Local weath- er at Charleston, Savannah and Jackson- ville.
On receipt and even HH:00	WSV	"	Storm warnings. (No broadcasts from 0300 to 1300).

Notes: See page 4 for notes concerning these broadcasts.

## North Atlantic

STATIONS: Jacksonville, Fla. (NMV, WSE, WNJ)  
 Ojus, Fla. (WAX)  
 Lantana, Fla. (WOE)

AREA AFFECTED: Coastal waters of U.S. from  
 a) Block Island, R. I. to Cape Hatteras, N. C.  
 b) Cape Hatteras to Jacksonville, Fla.  
 c) Jacksonville to Florida Straits.  
 d) East Gulf of Mexico.  
 e) Middle Gulf of Mexico.  
 f) West Gulf of Mexico.  
 g) Eastern Caribbean Sea.  
 h) Western Caribbean Sea.

## SCHEDULE OF TRANSMISSIONS

Time of Transmission G.C.T.	Call Sign	Frequency KC.	Contents of Transmissions
HH:18 or HH:48 *(2)	NMV	440	Storm warnings.
0620 1820	NMV	2678 (A3)	Forecasts, Areas b), c) and d). Small craft and storm warnings.
On receipt*(3)	NMV	"	Small craft and storm warnings.
0100 1300	WSE	{ 464 8722 13078.5	Forecasts, Areas b), c), d) and h). Small craft and storm warnings.
On receipt	WSE	"	Storm warnings.
0500 1700	WNJ	2566 (A3)	Forecasts, Areas b), c) and d). Small craft and storm warnings. Local weath- er at Jacksonville.
On receipt and odd HH:00	WNJ	"	Small craft and storm warnings.
0348 1548	WAX	{ 488 6390 8526 (D) 13011 (D) 17199.2	Forecasts, Areas a), b), c), d), e), f), g) and h). Small craft and storm warnings.
On receipt and odd HH:48	WAX	"	Storm warnings.
0330 1530	WOE	{ 472 6411 8486 12970.5 (D) 17160.8	Forecasts, Areas a), b), c), d), e), f), g) and h). Small craft and storm warnings.
On receipt and even HH:05	WOE	"	Storm warnings.

Notes: See page 4 for notes concerning these broadcasts.

## North Atlantic

STATIONS: Miami, Fla. (NMA, WDR)  
 Tampa, Fla. (WPD, WFA)  
 St. Petersburg, Fla. (NOF)  
 Mobile, Ala. (WLO)

AREA AFFECTED: Coastal waters of U.S. from  
 a) Cape Hatteras, N. C. to Jacksonville, Fla.  
 b) Jacksonville, Fla. to Florida Straits.  
 c) East Gulf of Mexico.  
 d) Middle Gulf of Mexico.  
 e) West Gulf of Mexico.  
 f) Western Caribbean Sea.

## SCHEDULE OF TRANSMISSIONS

Time of Transmission G.C.T.	Call Sign	Frequency KC.	Contents of Transmissions
HH:18 or HH:48 *(2)	NMA	440	Storm warnings.
On receipt and 0450 or 1650 *(3)	NMA	2678 (A3)	Small craft and storm warnings.
0400 1600	WDR	$\left\{ \begin{array}{l} 2514 \text{ (A3)} \\ \text{(D)} 2490 \text{ (A3)} \end{array} \right.$	Forecasts, Areas a), b) and c). Small craft and storm warnings.
On receipt and even HH:00	WDR	"	Small craft and storm warnings.
1800	WPD	$\left\{ \begin{array}{l} 420 \\ 8742 \end{array} \right.$	Forecasts, Areas b), c), d), e) and for Tampa Bay. Small craft and storm warnings.
On receipt	WPD	"	Storm warnings. (No broadcasts from 2200 to 1300).
0430 1630	WFA	2550 (A3)	Forecasts, Areas b) and c). Small craft and storm warnings.
On receipt and odd HH:00	WFA	"	Small craft and storm warnings.
On receipt and 0420 or 1620 *(3)	NOF	2678 (A3)	Small craft and storm warnings.
0100 0300 1100 1300 1500 1700 1900 2100 2300	WLO	2572 (A3)	Forecasts, Areas c), d), e), f) and for Mobile; river stage data. Small craft and storm warnings.

Notes: See page 4 for notes concerning these broadcasts.

## North Atlantic

STATIONS: New Orleans, La. (WNU, NMG, WAK)  
Swan Island, W. I. (WSG)

AREA AFFECTED: Coastal waters of U.S.,  
a) East Gulf of Mexico.  
b) Middle Gulf of Mexico.  
c) West Gulf of Mexico.  
d) Western Caribbean Sea.

## SCHEDULE OF TRANSMISSIONS

Time of Transmission G.C.T.	Call Sign	Frequency KC.	Contents of Transmissions
0430 1630	WNU	{ 478 (N) 4310 6495 8570 (D) 12826.5 (D) 17117.6	Forecasts, Areas a), b), c) and d). Small craft and storm warnings.
On receipt	WNU	"	Storm warnings.
0120 1720	NMG	436	Forecasts, Areas a), b), c) and d). Small craft and storm warnings.
HH:18 or HH:48 *(2)	NMG	"	Storm warnings.
0550 1750	NMG	2686 (A3)	Forecasts, Areas a), b), c) and d). Small craft and storm warnings.
On receipt *(3)	NMG	"	Small craft and storm warnings.
0500 1400	WAK	{ 2598 (A3) (D) 2558 (A3)	Forecasts, Areas a), b), c) and d). Small craft and storm warnings.
On receipt and odd HH:00	WAK	"	Small craft and storm warnings.
1630 and on request	WSG	2738 (A3)	Forecasts a) and d). Warnings.

Notes: See page 4 for notes concerning these broadcasts.



## North Atlantic

STATIONS: Port Arthur, Texas (WPA)  
Galveston, Texas (KLC, NOY, KQP)

AREA AFFECTED: Coastal waters of U.S.,  
a) East Gulf of Mexico.  
b) Middle Gulf of Mexico.  
c) West Gulf of Mexico.  
d) Western Caribbean Sea.

## SCHEDULE OF TRANSMISSIONS

Time of Transmission G.C.T.	Call Sign	Frequency KC.	Contents of Transmissions
1748	WPA	{ 416 (N) 8550 (D) 12840	Forecasts, Areas b) and c). Small craft and storm warnings. Local weather at Port Arthur.
On receipt and even HH:18	WPA	"	Storm warnings.
0400 1000 1600 2200	KLC	{ 484 (N) 4256 (N) 6369 8666 (D) 13038 (D) 17208.8	Forecasts, Areas b) and c), and for Galveston Bay; from June 16 through November 15, forecasts for Areas a) and d) are included. Small craft and storm warnings. Local weather at Galveston.
On receipt and odd HH:30	KLC	"	Storm warnings.
0520 1720	NOY	2686 (A3)	Forecasts, Areas b) and c). Small craft and storm warnings. Local weather at Galveston, Port Arthur and Corpus Christi.
On receipt	NOY	2686(A3)*	Small craft and storm warnings.
0100 1830	KQP	{ 2530 (A3) (D) 2450 (A3)	Forecasts, Areas b) and c). Small craft and storm warnings. Local weather at Galveston, Port Arthur and Corpus Christi.
On receipt and odd HH:15	KQP	"	Small craft and storm warnings.

Note: For chart showing U.S. coastal forecast areas see page 3.

\*After call on 2182(A3) KC.

## North Atlantic

STATIONS: San Juan, P. R. (NMR)  
Nassau, Bahamas Is. (VPN, ZFR)

AREA AFFECTED: a) Eastern Caribbean Sea.  
b) Western Caribbean Sea.  
c) Bahamas Islands waters.  
d) Bahamas Islands.

## SCHEDULE OF TRANSMISSIONS

Time of Transmission G.C.T.	Call Sign	Frequency KC.	Contents of Transmissions
0020 1620	NMR	{ 126.85 4795	Forecasts, Areas a) and b). Weather Summary. Small craft and storm warnings.
HH:18 or HH:48 *(1)	NMR	"	Storm warnings.
0300 1500	NMR	2678 (A3)	Forecasts, Areas a) and b). Weather Summary. Small craft and storm warnings.
On receipt	NMR	2678 (A3)Ø	Small craft and storm warnings.
0400	VPN	{ 426 500 8710	Forecasts, Area c). Storm warnings.
0500	VPN2	2558 (A3)	" "
1600	VPN	{ 426 500 8710	Forecasts, Area d). Storm warnings.
1700	{ VPN2 ZFR	{ 2558 (A3) 3125 5320	" "
On receipt and odd HH:00	{ VPN ZFR	{ 426 500 8710 3125 5320	Storm warnings.

Note: \*(1) Broadcast is made at the end of the first silent period following receipt of the message at the radio station and is preceded by announcement on 500 KC. If this transmission occurs outside the radio watch hours for single operator ships the warning is repeated at the end of the next silent period falling within the radio watch hours for such vessels. Warnings are also included in the stations' scheduled hydrographic or weather broadcasts.

ØAfter call on 2182(A3) KC.

## North Atlantic

STATION: Portishead, England (GKU, GKA, GKB, GKC)

AREA AFFECTED: North Atlantic from latitude 35° N to 65° N and from longitude 15° W to 40° W, plus the areas "Biscay" and "Finisterre."

## INFORMATION AVAILABLE

<u>Type of Report</u>	<u>Code</u>
GALE/STORM WARNINGS	Plain language
For area affected	
WEATHER SUMMARY	Plain language
For area affected	
FORECASTS	Plain language
For area affected	
SHIPS	FM 23A + PPPTT
North Atlantic	
SYNOP	FM 11A (First four groups)
British Isles, Faeroes, Norway, Eire, Iceland, Greenland, France, Spain, Azores, and Bermuda.	
ANALYSIS	FM 46A
North Atlantic	

## SCHEDULE OF TRANSMISSIONS

Time of Trans- mission G.C.T.	Call Sign	Frequency KC.	Time of Obser- vations G.C.T.	Contents of Transmissions	Remarks
0930	GKU GKA3 GKC3 GKB6 GKC6	102.7 6397 6428.5 16973.6 17151.2	--- -- -- 0600 0600	WARNINGS SUMMARY FORECASTS SHIPS SYNOP	Notes: (1) Forecasts are for 24 hours for the areas Biscay, Finisterre, West Northern, East Northern, West Central, East Central, West Southern and East Southern sections. See chart on page 15 for forecast areas and their designations. (2) For list of SYNOP reports included in the broadcasts see page 14.
1130	GKU GKA5 GKC5 GKB6 GKC6	102.7 12858 12871.5 16973.6 17151.2	0600	ANALYSIS	
2130	GKU GKB3 GKA4 GKC4 GKC5	102.7 6477.5 8582 8606 12871.5	-- -- -- 1800 1800	WARNINGS SUMMARY FORECASTS SHIPS SYNOP	

Notes: (3) The frequencies used in the broadcasts may be changed at times owing to propagation conditions. A list of the Portishead frequencies any of which may be substituted, follows:

GKU	102.7	GKB3	6477.5	GKC2	4256
GKA2	4268	GKB4	8570	GKC3	6428.5
GKA3	6397	GKB5	13006.5	GKC4	8606
GKA4	8582	GKB6	16973.6	GKC5	12871.5
GKA5	12858	GKB7	22503	GKC6	17151.2
GKA6	17136.8			GKC7	22545

## North Atlantic

Portishead, England (Continued)

List of SYNOP included in the bulletins for broadcast:

## FAEROE ISLANDS

06011 Thorshavn (03005) Lerwick

## BRITISH ISLES

03026 Stornoway	03804 Scilly
(100) Tiree	(814) Lizard
075 Wick	953 Valentia
(068) Lossiemouth	(952) Roches Point
262 Tynemouth	980 Malin Head
(185) St. Abb's Head	(973) Blacksod Point

## NORWAY

01262 Nordøyan	01203 Krakenes fyr
(228) Sula fyr	(306) Hellisøy fyr

## ICELAND

04030 Reykjavik (04048) Vestmannaeyjar

## GREENLAND

04281 Simiutaq (04280) Narssaq

## FRANCE

07102 Pte. St-Mathieu	07510 Bordeaux
(207) Le Talut	(600) Socoa

## SPAIN

08001 La Coruna (08046) Vigo

## AZORES

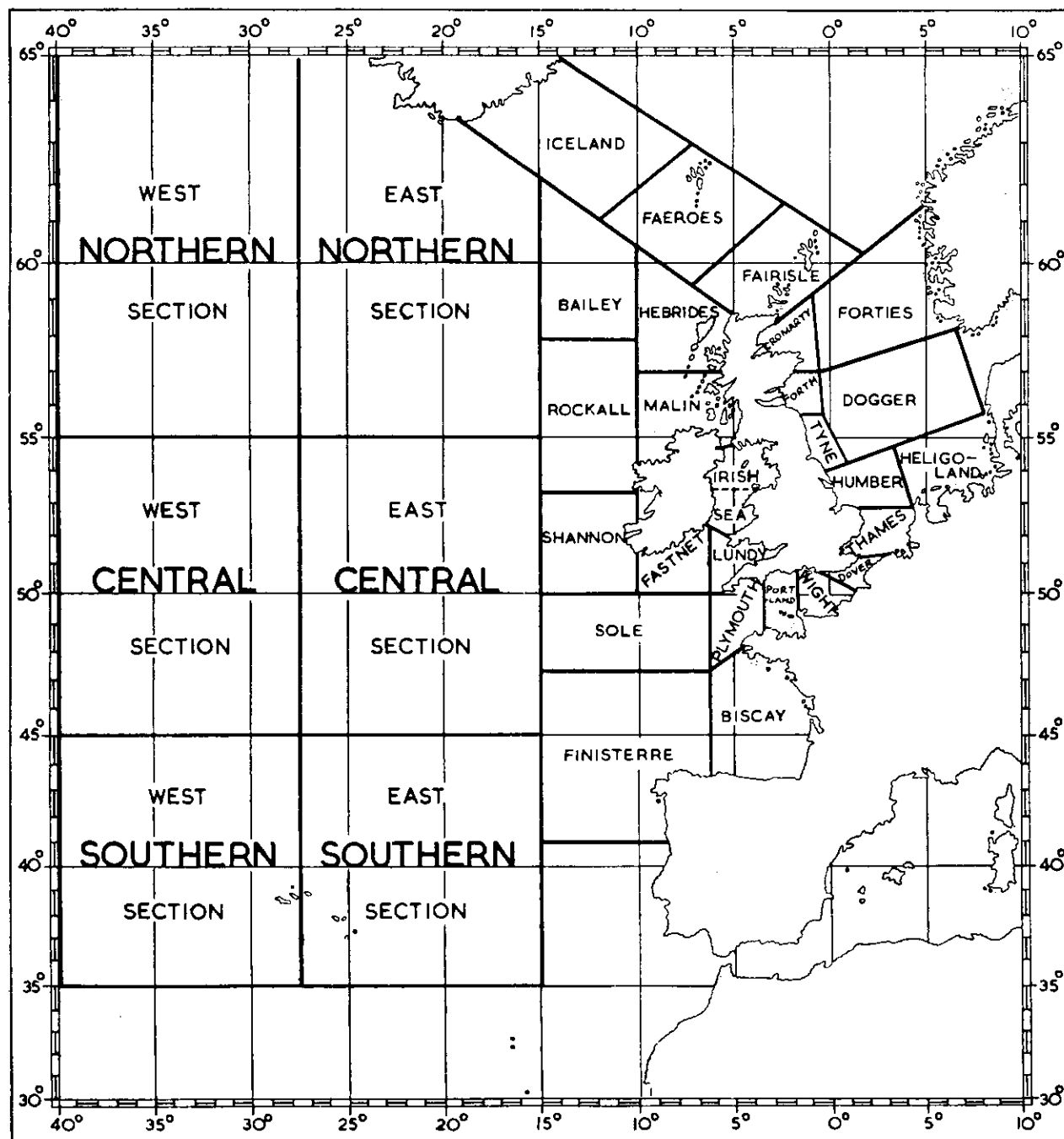
08506 Horta (08515) Santa Maria

## BERMUDA

78005 King's Point (78010) Hamilton

# GREAT BRITAIN

Areas used in gale warnings and weather bulletins for shipping



## North Atlantic

STATION: Coastal stations of Great Britain:

GRL	Burnham	GNI	Niton	GND	Stonehaven
GCC	Cullercoats	GNF	North Foreland	GKR	Wick
GKZ	Humber	GPK	Portpatrick	EJK	Valentia
GLD	Land's End			EJM	Malin Head

AREA AFFECTED: Coastal waters of Great Britain.

## INFORMATION AVAILABLE

<u>Type of Report</u>	<u>Code</u>
STORM/GALE WARNINGS	Plain language
FORECASTS	Plain language

## SCHEDULE OF TRANSMISSIONS

Time of Trans- mission G.C.T.	Call Sign	Frequency Kc.	Content of Transmission	Remarks
0830 2030	GRL	476	FORECASTS, Lundy	Notes: (1) For chart showing forecast areas and their designations see page 15. (2) Broadcasts on medium frequency are preceded by call on 500 kc.; those made by A3 are preceded by call on 2182 kc.
0830 2030	GNI	464	FORECASTS, Portland Wight Dover	
0830 2030	GPK	472	FORECASTS, Irish Sea	
0830 2030	GND	458	FORECASTS, Forth	
0830 2030	EJK	429	FORECASTS, Shannon Fastnet	
0848 2048	GCC	484	FORECASTS, Dogger Tyne Humber Heligoland Thames	
0848 2048	GLD	438	FORECASTS, Sole Plymouth Biscay Finisterre	
0848 2048	GKR	432	FORECASTS, Iceland Faeroes Fair Isle Cromarty Forties	

## North Atlantic

## Coastal stations of Great Britain - SCHEDULE OF TRANSMISSIONS (Continued)

Time of Trans- mission G.C.T.	Call Sign	Frequency Kc.	Content of Transmission
0848 2048	EJM	421	FORECASTS, Hebrides, Bailey Rockall, Malin
0803 2003	GCC	1841 (A3)	FORECASTS, Dogger, Tyne
0803 2003	GLD	1841 (A3)	FORECASTS, Sole, Plymouth Biscay, Finisterre
0803 2003	GNF	1848 (A3)	FORECASTS, Thames, Dover
0803 2003	GKR	1827 (A3)	FORECASTS, Iceland, Faeroes, Fair Isle Cromarty, Forties
0803 2003	EJM	1841 (A3)	FORECASTS, Hebrides, Malin, Rockall, Bailey
0833 2033	GRL	1855 (A3)	FORECASTS, Lundy
0833 2033	GKZ	1869 (A3)	FORECASTS, Humber, Heligoland
0833 2033	GNI	1834 (A3)	FORECASTS, Portland, Wight
0833 2033	GPK	1883 (A3)	FORECASTS, Irish Sea
0833 2033	GND	1855 (A3)	FORECASTS, Forth
0833 2033	EJK	1827 (A3)	FORECASTS, Shannon, Fastnet

## STORM/GALE Warnings:

The stations operating on medium frequency radiotelegraph make storm/gale warning broadcasts for their area at the end of the next silent period following receipt of the message and at 0818, 1218, 1618, and 2018; broadcasts are preceded by call on 500 kc.

Radiotelephone (A3) stations make storm/gale warning broadcasts for their area at HH:03 following receipt of the message and at 0303, 0903, 1503 and 2103; broadcasts are preceded by call on 2182 kc.

## North Atlantic

STATION: Horta, Azores Islands (CTH)

AREA AFFECTED: Eastern North Atlantic between latitude 30° N and 44° N, and from longitude 20° W to 40° W.

## INFORMATION AVAILABLE

<u>Type of Report</u>	<u>Code</u>
STORM WARNINGS	Plain language
For area affected	
WEATHER SUMMARY	Plain language
For area affected	
FORECASTS	Plain language
Zone 1: 44° N to 37° N, 20° W to 30° W.	
Zone 2: 44° N to 37° N, 30° W to 40° W.	
Zone 3: 37° N to 30° N, 20° W to 30° W.	
Zone 4: 37° N to 30° N, 30° W to 40° W.	
SHIPS	FM 21A, FM 22A, FM 23A
Eastern North Atlantic	
SYNOP	FM 11A
Azores, Madeira Is., Canada, Bermuda	

## SCHEDULE OF TRANSMISSIONS

Time of trans- mission G.C.T.	Call Sign	Frequency KC.	Time of Obser- vations G.C.T.	Content of Transmissions	Remarks
1235	CTH	429	--	WARNINGS	(1) Forecasts are for 24 hours from time of broad- casts. (2) Broadcasts are made in Portuguese and repeated in English.
	CTH4	9724.8	0600	SUMMARY	
			--	FORECASTS	
			0600	SYNOP	
			0600	SHIPS	
2135	CTH	429	--	WARNINGS	
	CTH3	10980	1200	SUMMARY	
			--	FORECASTS	
			1200	SYNOP	
			1200	SHIPS	

List of SYNOP reports included in the bulletins for broadcast:

08503	Corvo, Azores	08521	Funchal, Madeira
(501)	Flores, Azores	524	Porto Santo, Madeira
506	Horta, Azores	72600	Sable Island, Canada
512	Ponta Delgada, Azores	800	Cape Race, Canada
(515)	Santa Maria, Azores	801	Torbay, Canada
		78005	Kings Point, Bermuda



## North Atlantic

STATION: Lisbon, Portugal (CTV, CTX)

AREA AFFECTED: Eastern North Atlantic waters between Latitude 30° N and 44° N and east of Longitude 20° W to coast.

## INFORMATION AVAILABLE

<u>Type of Report</u>	<u>Code</u>
STORM WARNINGS	Plain language
For area affected	
WEATHER SUMMARY	Plain language
For area affected	
FORECASTS	Plain language
Zone 1: 44° N to 37° N, 20° W to coast Europe.	
Zone 2: 37° N to 30° N, 20° W to coast Europe and Africa.	
SHIPS	FM 21A, FM 22A, FM 23A
Eastern North Atlantic	
SYNOP	FM 11A
Spain, Portugal and Islands of Atlantic	

## SCHEDULE OF TRANSMISSIONS

Time of Trans- mission G.C.T.	Call Sign	Frequency Kc.	Time of Obser- vation G.C.T.	Content of Transmission	Remarks
0800	CTV CTX4	418 9091	--	WARNINGS	Note: (1) FORECASTS are for 24 hours from time of broadcast. (2) Broadcasts of WARNINGS, SUMMARY and FORECASTS are made in Portuguese and repeated in English.
			0000	SUMMARY	
			--	FORECASTS	
			0300 0000	SYNOP SHIPS	
2000	"	"	--	WARNINGS	
			1200	SUMMARY	
			--	FORECASTS	
			1500 1200	SYNOP SHIPS	

List of SYNOP reports included in the bulletins for broadcast:

08506 Horta, Azores	08536 Portela, Port.
(503) Corvo, Azores	(530) Berlenga, Port.
512 Ponta Delgada, Azores	538 Sagres
(515) Santa Maria, Azores	(554) Faro, Port.
521 Funchal, Madeira	60250 Agadir, Fr. Morocco
524 Porto Santo, Madeira	(155) Casablanca, Fr. Morocco
001 La Coruna, Spain	020 S. Cruz de Tenerife, Canary Is.
(046) Vigo, Spain	(069) Cabo Juby, Rio de Oro
545 Pedras Rubras, Port.	

## North Atlantic

STATION: Port Lyautey, F.M. (NHY)

AREA AFFECTED: Eastern Atlantic and western Mediterranean between longitude 35° W and 20° E, and from latitude 20° N to 45° N.

## INFORMATION AVAILABLE

<u>Type of Report</u>	<u>Code</u>
STORM WARNINGS (Part I) For area affected	Plain language
FORECASTS (Part II) For area affected	Plain language
ANALYSES (Part III) For area affected	FM 46A

## SCHEDULE OF TRANSMISSIONS

Time of Trans- mission G.C.T.	Call Sign	Frequency KC.	Contents of Transmissions	Remarks
0530	NHY	4623 } 7535 } 12145 }	WARNINGS ANALYSIS	Forecasts are for 24 hours from 0100 and 1300 G.C.T.
1130	"	7535 } 12145 } 17395 }	WARNINGS SUMMARY FORECASTS	
1730	"	"	WARNINGS ANALYSIS	
2330	"	4623 } 7535 } 12145 }	WARNINGS SUMMARY FORECASTS	

## North Atlantic

STATION: Norddeich Radio, Germany (DAN)

AREA AFFECTED: Heligoland Bight, Dutch Coast, Dogger, Skagerrack and fishing areas.

## INFORMATION AVAILABLE

<u>Type of Report</u>	<u>Code</u>
GALE/STORM WARNINGS For area affected	Plain language
FORECASTS (a) Heligoland Bight, Dutch Coast, Dogger, Skagerrack.	Plain language (English)
(b) Heligoland Bight, Dutch Coast, Dogger, Skagerrack and fishing areas.	Plain language (German)

## SCHEDULE OF TRANSMISSIONS

Time of Transmission G.C.T.	Call Sign	Frequency KC.	Contents of Transmissions	Remarks
0800	DAN	125	FORECASTS (a) WARNINGS	Broadcasts on 125 KC are preceded by an- nouncement on 500 KC.
0810	DAN	2614 (A3)	FORECASTS (b) WARNINGS	
0900	DAN	125	"	
2000	DAN	125	FORECASTS (a) WARNINGS	
2010	DAN	2614 (A3)	FORECASTS (b) WARNINGS	
2100	DAN	125	"	
On receipt and next HH:18 or HH:48 and at end of first silent period for single operator ships.	DAN	500	WARNINGS	
On receipt and next two HH:03	DAN	2614 (A3) after call on 2182 KC.	WARNINGS	

## North Atlantic

STATION: Kiel Radio, Germany (DAO)

AREA AFFECTED: West Baltic, Mid-Baltic and Kattegat.

## INFORMATION AVAILABLE

<u>Type of Report</u>	<u>Code</u>
STORM/GALE WARNINGS	
(a) For area affected	Plain language (English)
(b) For area affected	Plain language (German)
FORECASTS	
(a) For area affected	Plain language (English)
(b) For area affected	Plain language (German)

## SCHEDULE OF TRANSMISSIONS

Time of Transmission G.C.T.	Call Sign	Frequency KC.	Contents of Transmissions	Remarks
0830	DAO	421	FORECASTS (a)	Broadcasts on 421 kc.
0840	"	2775 (A3)	FORECASTS (b)	are preceded by announcement on 500 kc.
1630	"	421	FORECASTS (a)	
1640	"	2775 (A3)	FORECASTS (b)	
2130	"	421	FORECASTS (a)	
2140	"	2775 (A3)	FORECASTS (b)	
On receipt and next HH:18 or HH:48 and at end of first silent period for single operator ships	DAO	500	WARNINGS (a)	
On receipt and next two HH:03	"	2775 (A3) after call on 2182 kc.	WARNINGS (a), (b)	

## South Atlantic

STATION: Cerrito, Uruguay (CWA)

AREA AFFECTED: Coastal waters of Uruguay and Rio de la Plata.

## INFORMATION AVAILABLE

<u>Type of Report</u>	<u>Code</u>
FORECASTS	Plain language (Spanish)
(a) For Uruguay.	
(b) Continental weather summary and outlook for 48 hours.	
(c) Coastal waters of Uruguay and the Rio de la Plata.	
(d) Coastal waters, Province of Buenos Aires (Argentina).	
(e) Coastal waters, State of Rio Grande del Sur (Brazil).	
SYNOP Uruguay	FM 11A
PILOT Uruguay	FM 32A

SCHEDULE OF TRANSMISSIONS					
Time of Trans- mission G.C.T.	Call Sign	Frequency Kc.	Time of Obser- vation G.C.T.	Content of Transmission	Remarks
0000	CWA	421.5 8602	2300	SYNOP PILOT	
1400	"	"	1200	SYNOP PILOT	
1900	"	"	1800	SYNOP PILOT FORECASTS (a) to (e)	

List of reports included in the bulletins for broadcast:

86330	Artigas	86555	Minas
350	Rivera	560	Colonia
360	Salto	565	Rocha
425	Sacra	575	Melilla
440	Melo	580	Carrasco
460	Paso de los Toros	582	Cap. Curbelo
490	Daca	585	Prado (Montevideo)
500	La Calera	590	Antepuerto (Montevideo)
530	Yi	595	Punta del Este
550	San Jose		

## South Atlantic

STATION: Buenos Aires, Argentina (LPD, LSV)

AREA AFFECTED: Coastal waters of Argentina from Rio de la Plata to Cape Horn.

## INFORMATION AVAILABLE

<u>Type of Report</u>	<u>Code</u>
FORECASTS	Plain language
For area affected	
WEATHER SUMMARY	Plain language
For area affected	
SYNOP	FM 11A
Argentina and Uruguay	

## SCHEDULE OF TRANSMISSIONS

Time of Trans- mission G.C.T.	Call Sign	Frequency KC.	Time of Obser- vation G.C.T.	Contents of Transmissions	Remarks
0030	LPD4	444.5	2300	SYNOP	Note: (1) Broadcasts are made in Spanish and repeated in English.
0130	LSV2 LSV4	5907.5 12100	{--- {---	SUMMARY FORECASTS	
0148	LPD4	444.5			
1300	LPD4	444.5	1200	SYNOP	
1630	LSV2 LSV4	5907.5 12100	{--- {---	SUMMARY FORECASTS	
1700	LPD4	444.5			
2200	LPD4	444.5	2000	SYNOP	

List of SYNOP included in bulletins for broadcast:

## ARGENTINA

87580	Isla Martin Garcia	87593	La Plata (Dique 1)
585	Central Buenos Aires	596	Punta Indio
587	Capital Federal Darsena Sud	598	Ponton Practicos Recalada
589	Ponton Interseccion		

## URUGUAY

86585	Prado (Montevideo)	86560	Colonia
		595	Punta del Este

## South Atlantic

STATION: Cape Town, South Africa (ZSC, ZSL, ZSP)

AREA AFFECTED: Coastal waters, 50 miles seaward between Walvis Bay and Lourenco Marques, and shipping routes between Union of South Africa and Europe, North America, South America and Australia.

## INFORMATION AVAILABLE

<u>Type of Report</u>	<u>Code</u>
STORM WARNINGS	Plain language
For area affected	
WEATHER SUMMARY	Plain language
For area affected	
FORECASTS	Plain language
(a) Coastal waters, 50 miles seaward, Walvis Bay to Lourenco Marques.	
(b) Shipping routes, Union of South Africa to Europe and North America from Cape Point to Latitude 15° S.	
(c) Shipping routes, Union of South Africa to South America from Cape Point to Tristan da Cunha.	
(d) Shipping routes, Union of South Africa to Australia from Durban and Cape Point to Longitude 50° E.	

## SCHEDULE OF TRANSMISSIONS

Time of Trans- mission G.C.T.	Call Sign	Frequency KC.	Contents of Transmissions	Remarks
0930	ZSL ZSC5 ZSL3 ZSL5 ZSL6	119.15 418 6467 12772.5 17228	WARNINGS SUMMARY FORECASTS (a) to (d)	Note: (1) Forecasts cover the following 12 hour period beginning at 1000 and 2200 GCT. (2) From mid-November to mid-March an antarctic weather bulletin is transmitted by ZSL at 0500 and 2200 GCT on 119.15, 8502, 12772.5 and 17228 KC. for the area south of 30° S and between 60° W and 90° E.
1030	ZSP	1665(A3)	WARNINGS FORECAST (a)	
1730	ZSL ZSC5 ZSL2 ZSL5 ZSL6	119.15 418 3741.5 12772.5 17228	WARNINGS SUMMARY FORECASTS (a) to (d)	
1848	ZSP	1665(A3)	WARNINGS FORECAST (a)	

## Mediterranean and Indian Ocean

STATION: Malta (GYZ, VPT)

AREA AFFECTED: Mediterranean Sea

## INFORMATION AVAILABLE

<u>Type of Report</u>	<u>Code</u>
GALE/STORM WARNINGS	Plain language
For area affected	
FORECASTS	Plain language
(a) For area affected	
(b) For areas Ionian, Sidra, Aegean, Jason, Bomba and Matruh	
ANALYSES (Surface)	FM 46A
For area affected	

## SCHEDULE OF TRANSMISSIONS

Time of Trans- mission G.C.T.	Call Sign	Frequency KC.	Contents of Transmissions	Remarks
0430	GYZ	116.7	ANALYSIS	Notes: (1) For chart showing forecast areas and their designations see page 27.
	GYZ3	4331		
	GYZ4	6418		
	GYZ5	8494		
	GYZ7	12750		
0600	"	"	WARNINGS, FORECASTS (a)	
0930	VPT	461	WARNINGS, FORECASTS (b)	
1630	GYZ	116.7	ANALYSIS	
	GYZ3	4331		
	GYZ5	8494		
	GYZ7	12750		
	GYZ9	16968.8		
1700	GYZ	116.7	WARNINGS, FORECASTS (a)	
	GYZ3	4331		
	GYZ5	8494		
	GYZ7	12750		
2130	VPT	461	WARNINGS, FORECASTS (a)	



## Mediterranean and Indian Ocean

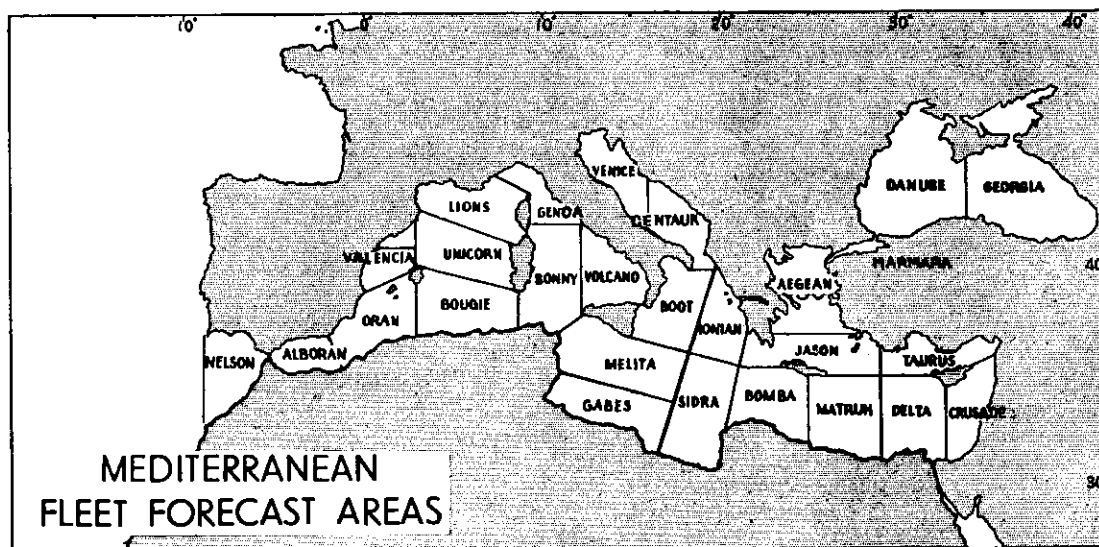
STATIONS: Alexandria, Egypt (SUH)  
Kosseir, Egypt (SUK)

AREA AFFECTED: Area A: Mediterranean Sea 20° E to 25° E and south of 34° N.  
Area B: Mediterranean Sea 25° E to 30° E and south of 34° N.  
Area C: Mediterranean Sea east of 30° E and south of 34° N.  
Area D: Gulf of Suez.  
Area E: Red Sea north of 23° N.

## SCHEDULE OF TRANSMISSIONS

Time of Transmission G.C.T.	Call Sign	Frequency KC.	Contents of Transmissions
0000 } 1200 }	SUH	444	Gale and Storm warnings, and 12-hour forecasts for Areas A, B and C.
1230	SUK	429	Gale and Storm warnings, and 24-hour forecasts for Areas D and E.
On receipt	SUH	444	Warnings, Areas A, B and C. (preceded by call on 500 KC.).
On receipt	SUK	429	Warnings, Areas D and E (pre- ceded by call on 500 KC.).

Note: Broadcast copy for SUH and SUK is sent from SUU, Cairo at 1130 and 2330 GCT, approximately, on 7317, 10560 and 3261 or 18729 KC.



## Mediterranean and Indian Ocean

STATION: Port Sudan, Anglo Egyptian Sudan (STP)

AREA AFFECTED: Red Sea between latitude 18° N and 23° N.

## SCHEDULE OF TRANSMISSIONS

Time of Transmission G.C.T.	Call Sign	Frequency KC.	Contents of Transmissions
0810	STP	425	Forecasts for 24 hours beginning 0800 G.C.T. for Area Affected.
Transmission preceded by call on 500 KC.			

STATION: Aden (ZNR)

AREA AFFECTED: Gulf of Aden and extreme western Arabian Sea north of latitude  
12° N and west of longitude 60° E.

## SCHEDULE OF TRANSMISSIONS

Time of Transmission G.C.T.	Call Sign	Frequency KC.	Contents of Transmissions
0418	ZNR	476	Forecasts for areas A15, A20, and A25.
0530	"	8710	" " "
0730	"	13060.5	" " "
1618	"	476	" " "
1630	"	8710	" " "

Note: For chart showing Aden forecast areas and their numbering see page 30.

STATION: Habbaniyah, Iraq (GFV)

AREA AFFECTED: Persian Gulf.

## SCHEDULE OF TRANSMISSIONS

Time of Transmission G.C.T.	Call Sign	Frequency KC.	Contents of Transmissions
0400	GFV18 GFV22 GFV24	4240 7475 13240	Forecasts for area affected, valid 24 hours from time of broadcast.
1000	GFV22 GFV24	7475 13240	
1600] 2200]	GFV18 GFV19 GFV22	4240 6240 7475	

## Mediterranean and Indian Ocean

STATIONS: Nairobi, Kenya (ZGV)  
Mombasa, Kenya (VPQ)

AREA AFFECTED: Indian Ocean between latitude 12° N and 30° S and west of longitude 70° E.

## INFORMATION AVAILABLE

<u>Type of Report</u>	<u>Code</u>
WARNINGS	Plain language
For area affected	
SUMMARY	Plain language
For area affected	
FORECAST	Plain language
For area affected	
SYNOP	FM 11A
Africa	
SHIPS	FM 21A, FM 22A, FM 23A
For area affected	

## SCHEDULE OF TRANSMISSIONS

<u>Time of Transmission G.C.T.</u>	<u>Call Sign</u>	<u>Frequency KC.</u>	<u>Time of Observations G.C.T.</u>	<u>Contents of Transmissions</u>
1220	ZGV ZGV2 ZGV3	9043 12000 17365	0600	WARNINGS, SUMMARY, FORECASTS, SHIPS, and SYNOP
0418, 0818, 1218, 1618; on receipt and at next HH:18 or HH:48	VPQ	500	---	WARNINGS

List of stations included in the SYNOP bulletins:

Coastal and Island stations of eastern Africa

61974 Agalega	63980 Mahe	67161 Tulear
986 St. Brandon	67001 Moroni	197 Ft. Dauphin
988 Rodrigues	005 Dzaoudzi	241 Mossuril
990 Plaisance	009 Diego-Suarez	297 Beira
63260 Mogadiscio	027 Majunga	339 Lourenco
820 Mombasa	095 Tamative	Marques
894 Dar es Salaam	150 Europa	

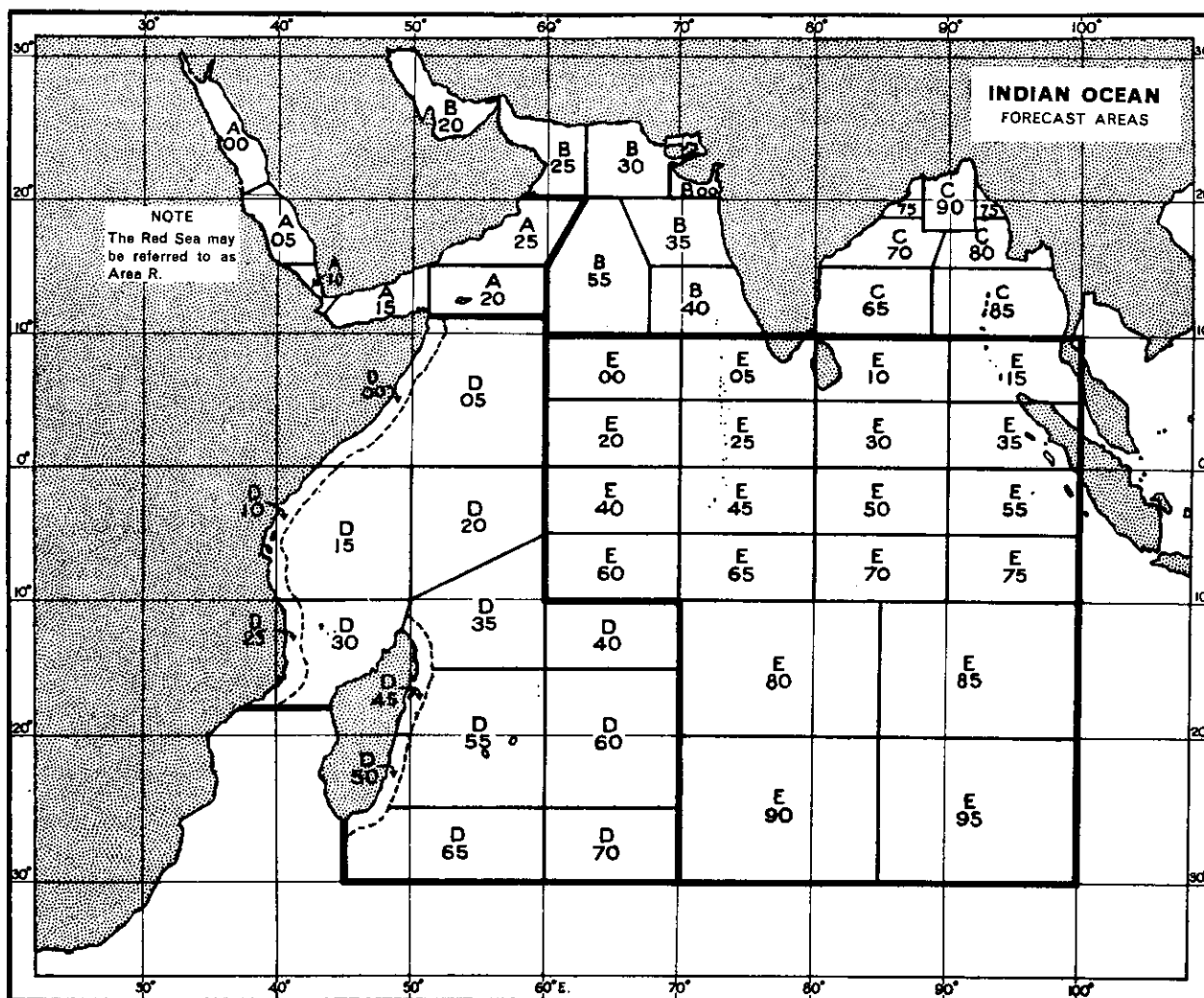
## Mediterranean and Indian Ocean

STATION: Karachi, Pakistan (ASK)

AREA AFFECTED: Arabian Sea north of 20° N and west of 68° E including Gulf of Oman and Persian Gulf.

## SCHEDULE OF TRANSMISSIONS

Time of Trans- mission G.C.T.	Call Sign	Frequency KC.	Contents of Transmissions
0830 1630	ASK	195	Warnings and forecasts for area affected
On receipt and 0030, 0430, 1230, 2030	ASK	500	Warnings



## Mediterranean and Indian Ocean

STATION: Colombo, Ceylon (GZH)

AREA AFFECTED: Indian Ocean north of latitude 30° S and from longitude 60° E to 100° E, including Arabian Sea and Bay of Bengal.

## INFORMATION AVAILABLE

<u>Type of Report</u>	<u>Code</u>
FORECASTS	Plain language
For area affected	
SHIPS	FM 21A, FM 22A, FM 23A
For area affected	

## SCHEDULE OF TRANSMISSIONS

Time of Transmission G.C.T.	Call Sign	Frequency KC.	Contents of Transmissions	Remarks
0530	GZH	123	SHIPS	(1) For chart showing forecast areas and their numbering see page oppo- site. (2) Forecasts are for 12 hours with "outlook" for an additional 12 hours. Areas for which the weather is normal and undisturbed for the season or locality may be omitted; other areas may be com- bined for brevity if practicable.
0930	GZH4	8726	FORECASTS	
1330	GZH5	12988.5	for areas	
	GZH6	16978.4	B:00, 35,	
	GZH7	21980	40, 55; all C, E.	
1730	GZH	123	SHIPS	
2130	GZH2	4295	FORECASTS	
	GZH3	6519.5	for areas	
	GZH4	8726	B:00, 35,	
	GZH5	12988.5	40, 55; all C, E.	
	GZH6	16978.4		

## North Pacific

STATION: Djakarta, Indonesia (POB)

AREA AFFECTED: Indonesian waters enclosed by line  $0^{\circ}$  N,  $109^{\circ}$  E to  $0^{\circ}$  N,  $95^{\circ}$  E, to  $10^{\circ}$  S,  $95^{\circ}$  E to  $10^{\circ}$  S,  $141^{\circ}$  E to  $5^{\circ}$  N,  $141^{\circ}$  E to  $5^{\circ}$  N,  $119^{\circ}$  E

## SCHEDULE OF TRANSMISSIONS

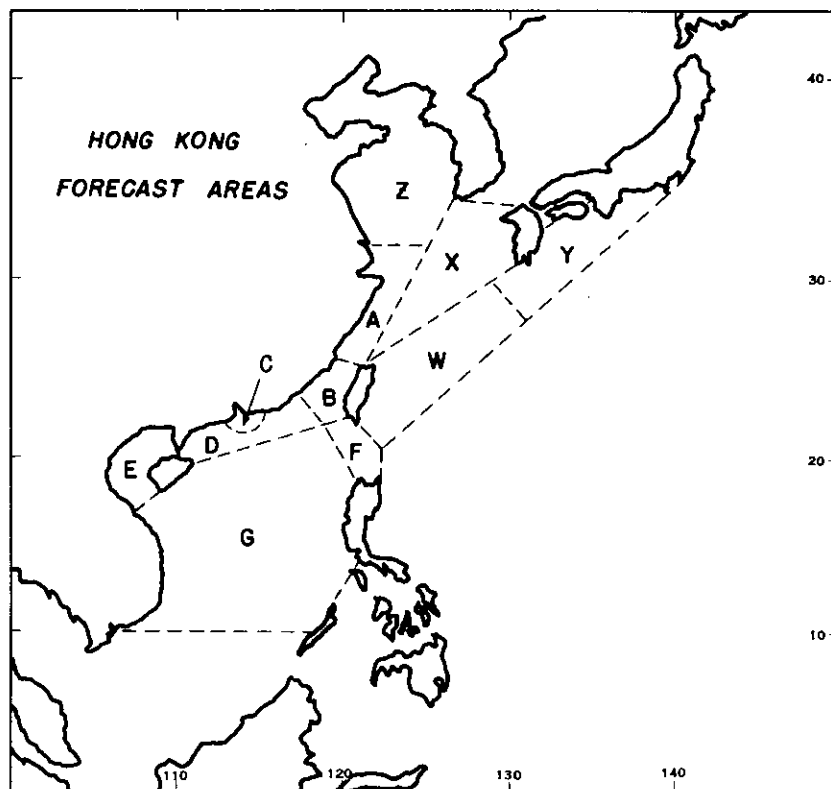
Time of Trans- mission G.C.T.	Call Sign	Frequency KC.	Contents of Transmissions
1000	POB 27	8055	Storm warnings, weather summary and 24-hour forecast for Area Affected.
	POB 35	11500	
	POB 39	16200	

STATION: Singapore, Malaya (VPW)

AREA AFFECTED: Malacca Straits and South China Sea

## SCHEDULE OF TRANSMISSIONS

Time of Trans- mission G.C.T.	Call Sign	Frequency KC.	Contents of Transmissions
0110	VPW 38	9075	12-hour forecasts beginning 0300 and 1500 for a) Malacca Straits, b) South China Sea $0^{\circ}$ to $5^{\circ}$ N and west of $105^{\circ}$ E, and c) South China Sea $0^{\circ}$ to $10^{\circ}$ N and east of $105^{\circ}$ E.
1310	VPW 43	13425	
0120	VPW	516	



## North Pacific

STATION: Hong Kong, China (VPS)

AREA AFFECTED: Coastal waters, Shanghai to Hong Kong and South China Sea north of 10° N.

## INFORMATION AVAILABLE

<u>Type of Report</u>	<u>Code</u>
STORM WARNINGS	Plain language
For the area 10° N to 30° N and 105° E to 125° E	
WEATHER SUMMARY	Plain language
For area affected	
FORECASTS	Plain language
Shanghai to Foochow (Area A)	
Formosa Strait (Area B)	
Hong Kong (Area C)	
South China coastal waters (Area D)	
Gulf of Tonkin (Area E)	
Luzon Strait (Area F)	
China Sea north of 10° N (Area G)	
Luzon Strait to Rikukus (Area W)	
Eastern Sea (Area X)	
South of Japan (Area Y)	
SYNOPSIS	FM 11A
China Coast	
SHIPS	FM 21A, FM 22A
Coastal waters and South China Seas	
ANALYSIS	FM 46A
Area 5° N to 45° N and 95° E to 150° E	

## SCHEDULE OF TRANSMISSIONS

Time of Trans- mission G.C.T.	Call Sign	Frequency Kc.	Time of Obser- vation G.C.T.	Content of Transmission	Remarks
0100	VPS	435 8566	1800 1800 -- 0000 1800	WARNINGS SUMMARY FORECASTS SYNOPSIS SHIPS	(1) For chart showing fore- cast areas see page 32. (2) Forecasts are for 12 hours from 0100 and 1300. (3) Forecasts for Area Z (Yellow Sea) may be obtained on request. There is no charge for this service. (4) List of SYNOPSIS reports included in bulletins;
0530	"	"	0000 0600 0000 0000	WARNINGS SYNOPSIS SHIPS ANALYSIS	(45)005 Hong Kong (45)011 Macao (46)810 Pratas
1230	"	"	0600 0600 -- 1200 0600	WARNINGS SUMMARY FORECASTS SYNOPSIS SHIPS	
1830	"	"	1200 1800 1200	WARNINGS SYNOPSIS SHIPS	
On receipt and HH:18 thereafter, except 0018, 0618, 1218, 1818	"	"	--	WARNINGS	

## North Pacific

STATION: Manila, Philippines (NPO)

AREA AFFECTED: Western Pacific between equator and 23° N, and west of longitude 132° E.

## INFORMATION AVAILABLE

<u>Type of Report</u>	<u>Code</u>
GALE/STORM/TYPHOON WARNINGS (PART 1) For area affected.	Plain language
FORECASTS (PART 2) For area affected.	Plain language
ANALYSES (PART 3) For area affected.	FM 46A
SYNOP (PART 4) Philippines, Malaya, Pacific Islands, India, Burma, Siam, Japan, French Indo-China, China.	FM 11A
SHIPS (PART 4) Western North Pacific south of 30° N and west of 135° E.	FM 21A, FM 22A, FM 23A
PILOT (PART 5) Philippines, Malaya, Pacific Islands, French Indo-China, China, Japan.	FM 32A, FM 33A
TEMP (PART 6) Philippines and Japan.	FM 35A
AIRCRAFT REPORTS (PART 7) Western Pacific.	FM 41A, FM 42A

## SCHEDULE OF TRANSMISSIONS

Time of Trans- mission G.C.T.	Call Sign	Frequency KC.	Time of Obser- vations G.C.T.	Contents of Transmissions	Remarks
0300	NPO	472 4445 9960 12200 15925 20925	0000	WARNINGS ANALYSIS PARTS 4 thru 7	(1) Forecasts cover 24- hour periods following 1200 and 0000 G.C.T. (2) Warnings are headed "Gale" when winds of force 7 to 9 are expected; "Storm" for force 10 and above; and "Typhoon" for force 12 and above in con- nection with storms of tropical origin.
0900	"	"	0600	WARNINGS FORECASTS PARTS 4 thru 7.	
1500	"	"	1200	WARNINGS ANALYSIS PARTS 4 thru 7.	
2100	"	"	1800	WARNINGS FORECASTS PARTS 4 thru 7.	

For list of reports included in bulletins for broadcast see following page.



## North Pacific

Manila, Philippines -- Continued

List of stations included in bulletins for broadcast:

## PHILIPPINES

98133	Calayan	98444	Legaspi	98653	Surigao
135	Basco (P)	446	Virac	741	Dipolog
223	Laoag (P)	526	Coron	748	Cagayan de Oro
232	Aparri	536	Romblon	754	Davao
325	Dagupan	543	Masbate	755	Hinatuan
327	Clark Field (P) (T)	618	Puerto Princesa	830	Jolo
336	Casiguran	630	Cuyo	836	Zamboanga (P)
428	Sangley Point (P)	637	Iloilo	851	Dadiangas
439	Daet	645	Cebu (P)		

## PACIFIC ISLANDS AND EAST INDIES

91115	Central Airfield, Iwo Jima (P) (T)	96441	Bintulu	97072	Palu
218	Anderson, Guam (P) (T)	465	Labuan	146	Kendari
408	Koror, Peleliu Is. (P)	491	Sandakan	180	Makassar
413	Yap (P)	509	Tarakan	230	Den Pasar
96001	Sabang	633	Balikpapan	404	Morotai
035	Medan	685	Bandjarmasin	560	Biak
163	Padang	743	Djakarta	600	Sanana
221	Palembang	839	Semarang	690	Hollandia
249	Buluhtumbang	933	Surabaya	724	Ambon
413	Kuching	97014	Menado	900	Saumlaki

## CHINA AND SOUTHEAST ASIA

43367	Car Nicobar	48097	Rangoon	48820	Hanoi (P)
400	Kankasanturai	108	Tavoy	(823)	Namding
418	Trincomalee	110	Mergui	848	Donghoi
466	Colombo	112	Victoria Pt.	855	Tourane (P)
497	Hambantota	327	Chiengmai	860	Pattle (P)
45005	Hong Kong (P)	400	Nakorn Sawan	877	Nhatrang
(011)	Macao (P)	407	Ubol Rajdhani	900	Saigon (P) (T)
46734	Pescadores I.	431	Nakorn Rajasima	913	Soctrang
743	Tainan	455	Bangkok (P) (T)	918	Poulo Condore
751	Taichung	475	Hua Hin	930	Luang-Prabang
760	Taitung	552	Nakorn Sridhamraj	940	Vientiane
763	Hwalien	601	Penang	947	Savannahket
810	Pratas I.	620	Sitiawan	(948)	Seno
48008	Myitkyina	657	Kuantan	962	Battambang
042	Mandalay	660	Port Swettenham	972	Stung Treng
062	Akyab	665	Malacca	985	Kampot
080	Sandoway	694	Singapore (P)	995	Kompong Cham

## JAPAN

47210	Seoul	47600	Wajima	47898	Shimizu
215	Ullungdo	662	Tokyo	918	Ishigakijima
259	Pusan	740	Saigo	927	Miaykojima
284	Chejudo	778	Shionomisaki	931	Kadena (P) (T)
580	Misawa	808	Itazuke	(930)	Naha (P)
582	Akita	836	Yakujima	945	Minamioagarijima
585	Miyako				

## North Pacific

STATION: Tokyo, Japan (JMC)

AREA AFFECTED: Western North Pacific from the Equator to Latitude 60° N and from Longitude 100° E to the 180th meridian.

## INFORMATION AVAILABLE

<u>Type of Report</u>	<u>Code</u>
WARNINGS AND WEATHER SUMMARY (Part 1) For area affected	Plain language
SYNOP - Japan; SHIPS (Part 2)	FM 11A, FM 21A
SYNOP - Korea, Siberia, China, Indo-China, Pacific Islands, Philippines; SHIPS (Part 3)	FM 11A, FM 21A
ANALYSIS Northern Hemisphere, surface (Book 4) Northern Hemisphere, 700 millibar (Book 8)	FM 45
EMERGENCY WARNINGS (Part 5) Japanese waters	Plain language

## SCHEDULE OF TRANSMISSIONS

Time of Trans- mission G.C.T.	Call Sign	Frequency Kc.	Contents of Transmissions	
0000	{ JMC	91.15	Part 5 - Emergency Warnings	
0220		JMC2	4298	Part 2 - SYNOP, SHIPS
0250		JMC4	8526	Part 3 - SYNOP, SHIPS
0320		JMC5	12840	Part 1 - Warnings and Weather Summary
0410				Book 4 - Surface Analysis
0600			Part 5 - Emergency Warnings	
0615			Book 8 - Upper Level Analysis	
0830			Part 2 - SYNOP, SHIPS	
0850			Part 3 - SYNOP, SHIPS	
0920			Part 1 - Warnings and Weather Summary	
1200	{ JMC	91.15	Part 5 - Emergency Warnings	
1420		JMC22	4298	Part 2 - SYNOP, SHIPS
1450		JMC5	12840	Part 3 - SYNOP, SHIPS
1520				Part 1 - Warnings and Weather Summary
1800			Part 5 - Emergency Warnings	
2020	{ JMC	91.15	Part 2 - SYNOP, SHIPS	
2050		JMC2	4298	Part 3 - SYNOP, SHIPS
2120		JMC4	8526	Part 1 - Warnings and Weather Summary
		JMC5	12840	

## North Pacific

STATION: Guam, Mariana Islands (NPN)

AREA AFFECTED: Western North Pacific between longitude 132° E and 160° E and south of line from 23° N, 132° E to 30° N, 145° E, to 30° N, 160° E.

## INFORMATION AVAILABLE

<u>Type of Report</u>	<u>Code</u>
GALE/STORM/TYPHOON WARNINGS (PART I) For area affected.	Plain language
FORECASTS (PART II) For area affected.	Plain language
ANALYSES (PART III) For area affected.	FM 46A

## SCHEDULE OF TRANSMISSIONS

Time of Trans- mission G.C.T.	Call Sign	Frequency KC.	Contents of Transmissions	Remarks
0420	NPN	484 4955 8150 13530 17530 21760	WARNINGS FORECAST	(1) Forecasts are for 12 hours beginning at 0300, 0900, 1500 and 2100 G.C.T. (2) WARNINGS are headed "Gale" when winds of force 7 to 9 are expected; "Storm" for force 10 and above; and "Typhoon" for force 12 and above when in connection with storms of tropical origin.
0940	"	"	WARNINGS FORECAST ANALYSIS	
1620	"	"	WARNINGS FORECAST	
2140	"	"	WARNINGS FORECAST ANALYSIS	

## North Pacific

STATION: Kodiak, Alaska (NHB)

AREA AFFECTED: North Pacific between latitude 40° N and 75° N, and from longitude 160° E to 150° W; and waters east of 150° W and north of 55° N.

## INFORMATION AVAILABLE

<u>Type of Report</u>	<u>Code</u>
GALE and STORM WARNINGS (PART I) For area affected.	Plain language
ANALYSIS (PART II) For area affected.	FM 46A
FORECAST and WEATHER SUMMARY (PART III) For area affected.	Plain language
SEALANE FORECAST (PART IV) (a) Attu to Unimak Pass (b) Unimak Pass to Cross Sound	Plain language

## SCHEDULE OF TRANSMISSIONS

Time of Trans- mission G.C.T.	Call Sign	Frequency KC.	Contents of Transmissions	Remarks
0500	NHB	2356 } 4825 } 8622 }	Parts I, III	(1) Forecasts for "Area Affected" are 12-hour forecasts; Sealane Forecasts are 24-hour forecasts. (2) WARNINGS are headed "Gale" when winds of force 7 to 9 are expected and "Storm" when winds of force 10 and above are expected.
1100	"	"	Parts I, II	
1700	"	4825 } 8622 } 12817.5 }	Parts I, III	
2300	"	"	Parts I, II, IV	

STATION: Honolulu, T. H. (NMO)

AREA AFFECTED: Hawaiian Islands' waters.

## SCHEDULE OF TRANSMISSIONS

Time of Transmission G.C.T.	Call Sign	Frequency KC.	Contents of Transmissions
0530	NMO	440	Forecasts for area affected. Weather Summary. Small craft and Storm Warnings.
2100	"	"	" "
HH:18 or } HH:48 *(2) }	"	"	Storm Warnings.
On receipt } and 0930 or } 2130 *(3) }	NMO	2686 (A3)	Small craft and Storm Warnings.

\*(2), \*(3): See page 4 for notes concerning NMO special broadcasts.

## North Pacific

STATION: Kahuku (Honolulu), T. H. (KHK)

AREA AFFECTED: North Pacific between longitude 140° W and 160° E, and from Equator to latitude 50° N.

## INFORMATION AVAILABLE

<u>Type of Report</u>	<u>Code</u>
GALE/STORM/HURRICANE WARNINGS (PART I) For area affected.	Plain language
WEATHER SUMMARY and FORECAST (Parts I and II) For area affected.	Plain language
SHIPS (Part III) Fifteen selected ship observations including ocean station vessels.	FM 23A+ PPPTT
SYNOP (Part IV) Selected island station reports.	FM 11A (see Note 2)

## SCHEDULE OF TRANSMISSIONS

Time of Trans- mission G.C.T.	Call Sign	Frequency KC.	Time of Obs- er- vations G.C.T.	Contents of Transmissions	Remarks
0530	KHK	484	---	WARNINGS	(1) Forecasts are for 24
* (4)		8542	---	FORECASTS	hours beginning at 0500 and
		13029	0000	SHIPS	2000 G.C.T.
			0000	SYNOP	(2) SYNOP are in code form
					iii Nddiff VVwww PPPTT.
2030	"	"	---	WARNINGS	(3) WARNINGS are headed
			---	FORECASTS	"Gale" when winds of force 7
			1800	SHIPS	to 9 are expected, "Storm"
			1800	SYNOP	for winds of force 10 and
					above, and "Hurricane" for
On receipt " and even	"	"	---	STORM and	force 12 winds when in con-
HH:30 during				HURRICANE	nection with disturbance of
hours of				WARNINGS	tropical origin.
operation					* (4) The 0530 broadcast is
* (5)					not made on days correspond-
					ing to Saturdays and Sundays,
					local time.
					* (5) Hours of operation are
					0600 to 2200 local time, Mon-
					day to Friday and 0800 to
					1600 local time on Saturdays
					and Sundays.

List of SYNOP stations included in broadcasts:

91066 Midway Island	91245 Wake Island
155 French Frigate Shoals	275 Johnson Island
165 Lihue, T. H.	285 Hilo, T. H.
182 Honolulu, T. H.	

## North Pacific

STATION: Honolulu, T. H. (NPM)

AREA AFFECTED: North Pacific from Equator to latitude 40° N and from longitude 160° E to line connecting points 40° N, 150° W and 0° N, 113° W.

## INFORMATION AVAILABLE

<u>Type of Report</u>	<u>Code</u>
GALE/STORM WARNINGS (Part 1) For area affected.	Plain language
FORECASTS (Part 2) For area affected	Plain language
ANALYSES (Part 3) For area affected.	FM 46A

## SCHEDULE OF TRANSMISSIONS

Time of Trans- mission G.C.T.	Call Sign	Frequency KC.	Contents of Transmissions	Remarks
0420	NPM	131.05 } 4525 9050 13655 17122.4 22593 }	WARNINGS FORECASTS	(1) IONOSPHERIC WARNINGS are added at the end of the 0420 GCT bulletin; Code- 88800 86420 Warning 88800 97531 No warning (2) Forecasts are for 12 hours beginning at time of broadcast. (3) Warnings are headed "Gale" when winds of force 7 to 9 are expected; "Storm" for winds of force 10 and above; and "Hurricane" for winds of force 12 when in connection with storms of tropical origin.
0940	"	"	WARNINGS FORECASTS ANALYSIS	
1620	"	"	WARNINGS FORECASTS	
2140	"	"	WARNINGS FORECASTS ANALYSIS	

## North Pacific

STATION: San Francisco, California, U.S.A. (KTK)

AREA AFFECTED: North Pacific east of longitude 180° and north of the Equator.

## INFORMATION AVAILABLE

<u>Type of Report</u>	<u>Code</u>
GALE/STORM/HURRICANE WARNINGS (PART 1) For area affected.	Plain language
FORECAST and WEATHER SUMMARY (Parts 1 and 2) For area affected.	Plain language
ANALYSES (Part 3) For area affected.	FM 46A
SHIPS (Part 4) Fifteen selected ship observations including ocean station vessels.	FM 23A + PPPTT
SYNOP (Part 5) Selected island and coastal station reports.	FM 11A (See Note 2)
COASTAL BULLETIN (Part 6) Warnings, Forecasts and selected coast station reports for the area Cape Blanco, Oregon to Pt. Conception, California.	Plain language

## SCHEDULE OF TRANSMISSIONS

Time of Trans- mission G.C.T.	Call Sign	Frequency KC.	Time of Obser- vations G.C.T.	Contents of Transmissions	Remarks
0420	KTK	436 *2037.5 8714 13114.5 17184.5 *22515	--- --- 0000 0000 0030 0030	WARNINGS FORECASTS ANALYSIS SHIPS SYNOP COASTAL BULLETIN	(1) Forecasts are for 24 hours beginning at 0500 and 1700 G.C.T. (2) SYNOP are in code form iii Nddff VVwww PPPTT. (3) Ocean area warnings are headed "Gale" when winds of force 7 to 9 are expected; "Storm" for force 10 and above; and "Hurricane" for force 12 and above in connection with storms of tropical origin.
1620	"	"	--- --- 1200 1200 1230 1230	WARNINGS FORECASTS ANALYSIS SHIPS SYNOP COASTAL BULLETIN	
On receipt and even HH:20	"	436 *2037.5 *4358 *6516 8714 13114.5 *17184.8 *22515	---	STORM and HURRICANE WARNINGS	

(Continued on following page)

## North Pacific

San Francisco, California (KTK) - continued.

List of SYNOP reports included in broadcasts:

72290 San Diego	72791 Astoria	70350 Kodiak
392 Point Arguello	798 Tatoosh Island	454 Adak
494 San Francisco	70398 Annette Island	91066 Midway Island
594 Eureka	361 Yakutat	182 Honolulu
691 North Bend	273 Anchorage	

\* { 2037.5 KC used when propagation conditions warrant.  
 4358 KC used 0500 to 1500 G.C.T.  
 6516 KC used 0500 to 1500 G.C.T.  
 17184.8 KC used 1500 to 0500 G.C.T.  
 22515 KC used when propagation conditions warrant.

STATION: San Francisco, California, U.S.A. (NPG)

AREA AFFECTED: Eastern North Pacific from coast of North America at 55° N to 55° N, 140° W to 40° N, 150° W to 0° N, 113° W to 0° N, 106° W to 14° N at coast of Central America.

Type of Report	INFORMATION AVAILABLE	Code
GALE/STORM/HURRICANE WARNINGS (Part 1) For area affected.		Plain language
FORECASTS (Part 2) For area affected.		Plain language
ANALYSES (Part 3) For area affected.		FM 46A
RADIO PROPAGATION WARNINGS (Part 9)		(See note 2)

## SCHEDULE OF TRANSMISSIONS

Time of Trans- mission G.C.T.	Call Sign	Frequency KC.	Content of Transmissions	Remarks
0420	NPG	114.95 6428.5 9277.5 12966 17055.2	WARNINGS FORECAST PROPAGATION WARNING	(1) Forecasts are for 24 hours beginning at time of broadcast. (2) Code for Radio Propagation Warnings: 88800 86420 - Warning; 88800 97531 - No Warning. (3) WARNINGS are headed "Gale" when winds force 7 to 9 are expected; "Storm" for force 10 and above, and "Hurricane" for force 12 and above when in connection with storms of tropical origin.
0940	"	"	WARNINGS ANALYSIS	
1620	"	"	WARNINGS FORECAST	
2140	"	"	WARNINGS ANALYSIS	



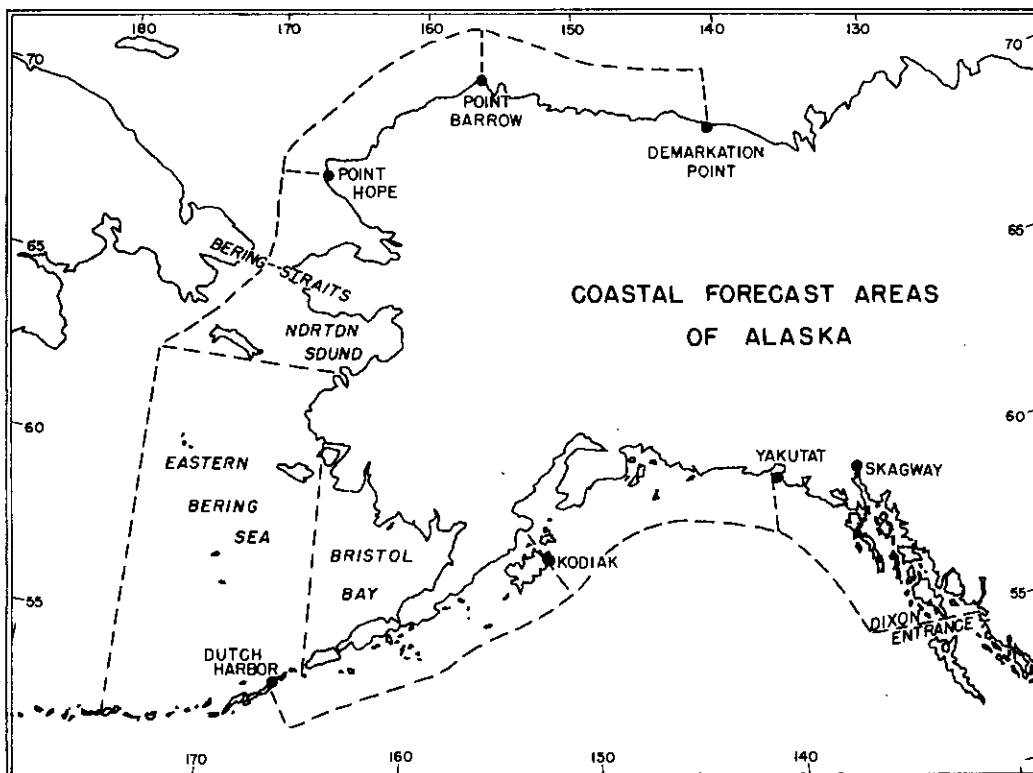
## North Pacific

STATION: Bolinas, California, U.S.A. (KPH)

AREA AFFECTED: (a) North Pacific east of longitude 180° and north of the Equator.  
 (b) Coastal waters from Cape Blanco, Oregon to Point Conception, California.

## SCHEDULE OF TRANSMISSIONS

Time of Transmission G.C.T.	Call Sign	Frequency KC.	Contents of Transmissions
0500	KPH	460 (N) 4247 (N) 6488 8618 13002 (D) 17016.8 (D) 22557	Warnings and 24-hour forecasts for area (a).
1700	"	"	Warnings and 24-hour forecasts for area (a); 36-hour forecasts for area (b).
On receipt and odd HH:00	"	"	Storm warnings.



## North Pacific

STATIONS: Coastal stations of Alaska:

ALB Anchorage	ALF Juneau	ALB77 Naknek
ALC33 Barrow	NMJ Ketchikan	ALC22 Nome
ALB66 Cold Bay	ALE Ketchikan	ALF44 Sitka
ALB44 Cordova	ALB99 Kodiak	ALD33 Unalaska
		ALB22 Whittier

AREA AFFECTED: Coastal waters of Alaska (1). Forecasts, including Small Craft and Storm Warnings are issued for the following areas:

- a) Point Barrow to Demarkation Point (issued on request only).
- b) Point Hope to Point Barrow (issued on request only).
- c) Bering Straits to Point Hope including Kotzebue Sound (July to October; on request other months).
- d) Norton Sound to Bering Straits including St. Lawrence Island waters (June to November; on request other months).
- e) Eastern Bering Sea from 165° to 175° W, and northward to 63° N (issued on request only).
- f) Bristol Bay east of 165° W.
- g) Kodiak to Dutch Harbor including Shelikof Strait.
- h) Yakutat to Kodiak including Prince William Sound and Lower Cook Inlet.
- i) Outside waters from Dixon Entrance to Yakutat.
- j) Inside waters from Dixon Entrance to Skagway.
- k) Dutch Harbor to Adak (April to October; on request other months).

## SCHEDULE OF TRANSMISSIONS

Time of Transmission G.C.T.	Call Sign	Frequency KC.	Contents of Transmissions
On call	ALC33	2312 (A3)	Warnings; Forecasts a, b, c, d.
On call; 1930 during navi- gation season	ALC22	2784 (A3)	Warnings; Forecasts a, b, c, d.
0200 2000	ALD33	2312 (A3)	Warnings; Forecasts e, f, g, h, k.
0030 0500 1830	ALB77	2312 (A3)	Warnings; Forecasts e, f, g, h.
2100 during navigation season	ALB66	2312 (A3)	Warnings; Forecasts e, f, g, h.
Odd HH:30	ALB99	2784 (A3)	Warnings; Forecasts e, f, g, h.
0500 1800	ALB	2312 (A3)	Warnings; Forecasts e, f, g, h.

## North Pacific

## Coastal stations of Alaska - SCHEDULE OF TRANSMISSIONS (Continued)

Time of Transmission G.C.T.	Call Sign	Frequency KC.	Contents of Transmissions
0000 0200 0400 0600 1800 2000 2200	ALB22	2312 (A3)	Warnings; Forecasts e, f, g, h.
0100 0300 0500 1900 2100 2300	ALB44	2300 (A3)	Warnings; Forecasts e, f, g, h.
0430 1630	ALF	2784 (A3)	Warnings; Forecasts i, j.
1900	ALF44	2312 (A3)	Warnings; Forecasts i, j.
0215 0515 1525	ALE	2300 (A3)	Warnings; Forecasts i, j.
0530 1730	NMJ	466	Warnings; Forecasts e, f, g, h, i, j.
0600 1800	NMJ	2678 (A3)	Warnings; Forecasts e, f, g, h, i, j.
HH:18 or HH:48 after receipt *(2)	NMJ	466	Warnings.
On receipt	NMJ	2678 (A3) <sup>ø</sup>	Warnings.

Notes: (1) For chart showing Alaskan coastal forecast areas see page 43.

\*(2) Broadcast is made at the end of the first silent period following receipt of the message at the radio station and is preceded by announcement on 500 KC. If this transmission occurs outside the radio watch hours for single operator ships the warning is repeated at the end of the next silent period falling within the radio watch hours for such vessels. Warnings are also included in the stations' scheduled hydrographic or weather broadcasts.

<sup>ø</sup>After call on 2182(A3) KC.

## North Pacific

STATION: Vancouver, British Columbia (CKN)

AREA AFFECTED: Coastal waters of western Canada.

## INFORMATION AVAILABLE

<u>Type of Report</u>	<u>Code</u>
GALE/STORM WARNINGS for Area Affected	Plain language
FORECASTS for Area Affected	Plain language
ANALYSIS for Northeast Pacific	FM 46A

## SCHEDULE OF TRANSMISSIONS

Time of Trans- mission G.C.T.	Call Sign	Frequency KC.	Contents of Transmissions	Remarks
On receipt	CKN	133.15 } (N) 4307 6446 (N) 8614 (D) 12921 (D) 17228 }	STORM WARNINGS	Forecasts are for 24 hours beginning 0400, 1400 or 2000.
0500	"	"	FORECASTS	
0530	"	"	ANALYSIS	
1610	"	"	FORECASTS	
1730	"	"	ANALYSIS	
2100	"	"	FORECASTS	
2130	"	"	FORECASTS	

STATION: Vancouver, British Columbia (CFW)

AREA AFFECTED: Coastal waters of western Canada.

## SCHEDULE OF TRANSMISSIONS

Time of Transmission G.C.T.	Call Sign	Frequency KC.	Contents of Transmissions
0430 } 1530 } 2000 }	CFW	2538(A3) } 2558(A3) }	Weather summary and forecasts for coastal waters of western Canada.

## North Pacific

STATIONS: Seattle, Wash. (NMW, KOW)  
 Astoria, Oreg. (KFX)  
 Portland, Oreg. (KQX)

AREA AFFECTED: Coastal waters of U.S. from Tatoosh Island, Wash., to Cape Blanco, Oreg.; Straits of Juan de Fuca and inland waters of western Washington.

## SCHEDULE OF TRANSMISSIONS

Time of Trans- mission G.C.T.	Call Sign	Frequency KC.	Contents of Transmissions
0430 1700	NMW	440	Forecasts: Coastal waters of U.S. from Tatoosh Island to Cape Blanco; Straits of Juan de Fuca and inland waters of western Washington. Weather Summary. Small craft and storm warnings. Local weather at Tatoosh Island, Swiftsure Lightship, Destruction Island, Astoria, Columbia Lightship and Cape Blanco.
0500 1700	KOW	2522 (A3)	" " "
0530 1730	NMW	2702 (A3)	" " "
0515 1715	KFX	2598 (A3)	" " "
0530 1730	KQX	2598 (A3)	" " "
HH:18 or HH:48 *(2)	NMW	440	Storm Warnings.
On receipt and odd HH:00	KOW	2522 (A3)	"
"	KFX	2598 (A3)	"
"	KQX	2598 (A3)	"
On receipt	NMW	2702 (A3) $\phi$	"

Notes: (1) For chart showing U. S. coastal forecast areas see page 3.

\*(2) Broadcast is made at the end of the first silent period following receipt of the message at the radio station and is preceded by announcement on 500 KC. If this transmission occurs outside the radio watch hours for single operator ships the warning is repeated at the end of the next silent period falling within the radio watch hours for such vessels. Warnings are also included in the stations' scheduled hydrographic or weather broadcasts.

$\phi$ After call on 2182(A3) KC.

## North Pacific

STATIONS: San Francisco, Calif. (NMC, KLH, NPG)  
Eureka, Calif. (KOE)

AREA AFFECTED: Coastal waters of U. S. from Cape Blanco, Oreg., to Pt. Conception, Calif.

## SCHEDULE OF TRANSMISSIONS

Time of Trans- mission G.C.T.	Call Sign	Frequency KC.	Contents of Transmissions
0000 1200 1800	NPG	2716 (A3)	Forecasts and warnings for San Francisco Bay area. Selected coast station reports.
0400 1700	NMC	486	Forecasts for coastal waters from Cape Blanco to Pt. Conception. Weather Summary. Small craft and storm warnings. Local weather at Pt. Arguello, Pt. Piedras Blancas, Farallon Island, Pt. Arena, Blunt's Reef Lightship and San Francisco Lightship, Pt. Montara, Pt. Reyes, Alcatraz Island, Eureka and Crescent City.
0430 1630	KLH	2506 (A3)	" " "
0500 1700	KOE	2506 (A3)	Forecasts for coastal waters from Tatoosh Island to Pt. Conception. Weather Summary. Small craft and storm warnings. Local weather at Pt. Arguello, Pt. Piedras Blancas, Pt. Montara, Farallon Island, Pt. Reyes, Pt. Arena Blunt's Reef Lightship, Alcatraz Island, Eureka, Crescent City and San Francisco Lightship.
On receipt and 0430 or 1630 *(3)	NMC	2662 (A3)	Storm warnings.
On receipt and odd HH:00 for six hours	KLH	2506 (A3)	"
"	KOE	2506 (A3)	"
HH:18 or HH:48 *(2)	NMC	486	"

Notes: (1) For chart showing U.S. coastal forecast areas see page 3.

\*(2) Broadcast is made at the end of the first silent period following receipt of the message at the radio station and is preceded by announcement on 500 KC. If this transmission occurs outside the radio watch hours for single operator ships the warning is repeated at the end of the next silent period falling within the radio watch hours for such vessels. Warnings are also included in the stations' scheduled hydrographic or weather broadcasts.

\*(3) Broadcast is made on receipt of the message at the radio station and is preceded by announcement on 2182 (A3) KC. The warning is repeated at whichever of the given time schedules that next occurs.

## North Pacific

STATIONS: San Pedro, Calif. (KOU)  
 Long Beach, Calif. (NMQ)  
 Los Angeles, Calif. (KSE)  
 Paramount, Calif. (KOK)

AREA AFFECTED: Coastal waters of U. S. from Pt. Conception, Calif. to Mexican border.

## SCHEDULE OF TRANSMISSIONS

Time of Trans- mission G.C.T.	Call Sign	Frequency KC.	Contents of Transmissions
0400 1600	KOU	2566 (A3)	Forecasts for coastal waters from Pt. Conception to south of San Diego. Weather Summary. Small craft and storm warnings. Local weather at San Diego, San Nicolas Island, San Pedro, Anacapa Island Light, Pt. Arguello, Newport Beach, Pt. Mugu and Redondo-Hermosa; in evening broadcasts only, Avalon Harbor and Santa Monica.
0420 1720	NMQ	472	" " " "
0500 1700	NMQ	2694 (A3)	" " " "
0018 0418 1618 2018	KSE	418	Local weather at Los Angeles Harbor.
On receipt and odd HH:00	KOU	2566 (A3)	Storm warnings.
HH:18 or HH:48 *(2)	NMQ	472	"
On receipt	NMQ	2694 (A3) <sup>ø</sup>	"
On receipt and even HH:50	KOK	464 8590 12993 (D) 17064.8	"

Notes: (1) For chart showing U. S. coastal forecast areas see page 3.

\*(2) Broadcast is made at the end of the first silent period following receipt of the message at the radio station and is preceded by announcement on 500 KC. If this transmission occurs outside the radio watch hours for single operator ships the warning is repeated at the end of the next silent period falling within the radio watch hours for such vessels. Warnings are also included in the stations' scheduled hydrographic or weather broadcasts.

<sup>ø</sup>After call on 2182 (A3) KC.

## North Pacific

STATIONS: Coastal stations of western Mexico:

La Paz, B.C. (XFK)  
 Mazatlan, Sin. (XFL, XFIL)  
 Acapulco, Gro. (XFA, XFIA)  
 Salina Cruz, Oax. (XFQ)

AREA AFFECTED: Coastal waters of west coast of Mexico.

## SCHEDULE OF TRANSMISSIONS

Time of Transmission G.C.T.	Call Sign	Frequency KC.	Contents of Transmissions
0300 } 1500 }	XFK	428.6 }	Spanish language broadcasts of storm advisories, weather summary and forecasts for coastal waters of west coast of Mexico; current weather at Ensenada, Punta Penasco, La Paz, Guaymas, Mazatlan, Isla Maria Madre, Acapulco and Salina Cruz.
1700	{ XFL XFIL	{ 400 6250 }	
1500 } 2200 }	XFA XFIA	428.6 8823.5	
1500	XFQ	500	



## North Pacific

STATION: Balboa, Canal Zone (NBA)

AREA AFFECTED: Atlantic, Gulf of Mexico and Caribbean Sea south of latitude 20° N and west of longitude 35° W; Pacific waters north of the equator and east of line extending from 0° N, 106° W to 14° N at coast of Central America.

## INFORMATION AVAILABLE

<u>Type of Report</u>	<u>Code</u>
GALE/STORM/HURRICANE WARNINGS (Part I) For area affected.	Plain language
FORECASTS (Part II) For area affected.	Plain language
ANALYSIS (Part III) For area affected.	FM 46A
SYNOP (Part IV) Mexico, Central America, West Indies and South America.	FM 11A
SHIPS (Part V) Caribbean and Eastern Pacific.	FM 21A, FM 22A + D <sub>S</sub> V <sub>S</sub> app
PILOT (Part VI) West Indies, Central and South America.	FM 32A
TEMP (Part VII) West Indies and Central America.	FM 35A
AIRCRAFT REPORTS (Part VIII) Caribbean and Eastern Pacific.	FM 42A

## SCHEDULE OF TRANSMISSIONS

Time of Trans- mission G.C.T.	Call Sign	Frequency KC.	Time of Obser- vations G.C.T.	Contents of Transmissions	Remarks
0530	NBA	147.85 } 5006 } 11080 } 17127.2 }	-- -- 0000 0030 0000 2100 1500 --	WARNINGS FORECAST ANALYSIS SYNOP SHIPS PILOT TEMP AIRCRAFT	(1) Forecasts are for 18 hours from 0600 and 1800 G.C.T. (2) WARNINGS are headed "Gale" when winds of force 7 to 9 are expect- ed; "Storm" for force 10 and above; and "Hur- ricane" for force 12 and above when in connection with storms of tropical origin.
1030	"	"	--	WARNINGS	
1700	"	"	-- -- 1200 1230 1200 0900 0300 --	WARNINGS FORECAST ANALYSIS SYNOP SHIPS PILOT TEMP AIRCRAFT	
2230	"	"	--	WARNINGS	

For list of reports included in the bulletins see page following.

## North Pacific

## Balboa Canal Zone (Continued)

Stations included in bulletins for broadcast:

## CENTRAL AMERICA AND WEST INDIES

78367	Guantanamo (P) (T)	78741	Managua (P)
383	Grand Cayman	745	Bluefields
397	Kingston (P)	763	San Jose
439	Port au Prince (P)	767	Limon
457	Puerto Plata	783	Colon (P)
485	Ciudad Trujillo (P)	806	Albrook Field, C.Z. (P) (T)
501	Swan Island (P) (T)	857	Basseterre
514	Ramey AFB, P.R. (P)	907	Roseau
526	San Juan (P) (T)	926	Fort-de-France (P)
543	C. Amalie	946	Castries
584	Belize	953	Bridgetown
641	Guatemala (P)	970	Port of Spain (P)
663	San Salvador	988	Willemstad (P)
702	Tela	--	Cape Mala
714	Tegucigalpa (P)		

## MEXICO

76645	Merida	76751	Chetumal
649	Cozumel	903	Tapachula

## SOUTH AMERICA

80022	Cartagena, Col.	81201	Paramaribo, Gu. Guiana
028	Soledad (P)	405	Cayenne, Fr. Guiana
062	Turbo	82029	Amapa, Brazil
043	Sincedejo	191	Belem
070	San Marcos	243	Santarem
110	Medellin	280	San Luiz
234	La Vanguardia	397	Fortaleza
259	Calipuerto	598	Natal
336	Tumaco	898	Recife
341	Dos Rios	994	Maceio
402	Maracaibo, Venez.	84008	Galapagos I. (P)
403	Maiquetia	012	Manta, Ecuador
404	Maturin	027	Esmeraldas
406	Merida	129	Guayaquil
408	Barquisimeto	390	Talara, Peru
413	Tumeremo	452	Chiclayo (P)
81002	Atkinson Field, Br. Guiana	501	Trujillo

## South Pacific

STATION: Sydney, Australia (VIX)

AREA AFFECTED: Australian waters from Latitude 5° N. to 50° S., and from Longitude 100° E. to 160° E.

## INFORMATION AVAILABLE

<u>Type of Report</u>	<u>Code</u>
GALE/STORM WARNINGS	Plain language
For waters south of Equator and between 100° E., and 160° E.	
FORECASTS	Plain language
(a) NE Australian waters from 5° N. to 25° S., and from 141° E. to 160° E.	
(b) SE Australian waters from 25° S. to 50° S., and from 135° E. to 160° E.	
(c) NW Australian waters from 5° N. to 20° S., and from 100° E. to 141° E.	
(d) SW Australian waters from 20° S. to 50° S., and from 100° E. to 135° E.	

## SCHEDULE OF TRANSMISSIONS

Time of Trans- mission G.C.T.	Call Sing	Frequency Kc.	Content of Transmission	Remarks
0130	VIX	44 8478 17256.8 22485	WARNINGS FORECASTS (a), (b)	Notes: (1) Warnings are issued when winds force 8 or more are expected. (2) Forecasts are for 24 hour periods beginning as follows: Forecast (a) from 0000 and 0800; Forecast (b) from 0030 and 0830; Forecast (c) from 0300 and 1100; Forecast (d) from 0230 and 1030 G.C.T.
0530	"	4286 8478 17256.8 22485	WARNINGS FORECASTS (c), (d)	
0930	"	44 6428.5 8478 12907.5	WARNINGS FORECASTS (a), (b)	
1330	"	44 6428.5 8478 12907.5	WARNINGS FORECASTS (c), (d)	

## South Pacific

STATION: Wellington, N.Z. (ZLL, ZIM, ZLW)

AREA AFFECTED: South Pacific waters and Tasman Sea within 300 miles of New Zealand.

## INFORMATION AVAILABLE

<u>Type of Report</u>	<u>Code</u>
STORM WARNINGS For the area between Latitude 25° S. and 50° S., and from Longitude 160° E. to 170° W.	Plain language
WEATHER SUMMARY For the area between Latitude 25° S. and 50° S., and from Longitude 150° E. to 160° W.	Plain language
FORECASTS For area affected.	Plain language
SHIPS	FM 22A, FM 23A
SYNOP	
(a) List I	Plain language
(b) List II	FM 11A
ANALYSES For the area between 140° E. and 150° W., and from Longitude 20° S. to 55° S.	FM 46A

## SCHEDULE OF TRANSMISSIONS

Time of Trans- mission G.C.T.	Call Sign	Frequency Kc.	Time of Obser- vation G.C.T.	Content of Transmission	Remarks
0725	ZLW	2206 (A3)	0300 0600	SYNOP (List I)	*SHIP and SYNOP reports are not transmitted on 417.5 KC.
0848	"	"	---	WARNINGS	
			---	SUMMARY	
			---	FORECASTS	
0830	ZLW	417.5*	---	WARNINGS	
	ZLL40	5915	---	SUMMARY	
	ZIM30	11130	---	FORECASTS	
	ZIM28	14850	0600	SHIP	
			0600	SYNOP (List II)	
1100	ZLL40	5915	0600	ANALYSES	
	ZLL22	7600			
	ZIM30	11130			
1925	ZLW	2206 (A3)	1800	SYNOP (List I)	
2048	"	"	---	WARNINGS	
			---	SUMMARY	
			---	FORECASTS	
2030	ZLW	417.5*	---	WARNINGS	
	ZLL40	5915	---	SUMMARY	
	ZIM30	11130	---	FORECASTS	
	ZIM28	14850	1800	SHIP	
	ZIM9	19800	1800	SYNOP (List II)	

## South Pacific

## Wellington, N. Z. --- SCHEDULE OF TRANSMISSIONS ( Continued )

Time of Trans- mission (G.C.T.)	Call Sign	Frequency (Kc.)	Time of Obser- vations (G.C.T.)	Content of Transmission	Remarks
2300	ZLL40	5915	1800	ANALYSES	
	ZIM30	11130			
	ZLM28	14850			
	ZLM9	19800			

## List I of SYNOP reports included in radiotelephone broadcasts:

93003	Cape Reinga	93526	Farewell Spit
198	East Cape	561	Stephens Island
300	Cape Egmont	585	Brothers Island
308	New Plymouth	598	Cape Campbell
318	Patea	607	Greymouth
323	Wanganui	675	Kaikoura
372	Napier	775	Timaru
396	Portland Island	794	Akaroa Head
434	Wellington	806	Puysegur Point
478	Cape Palliser	896	Taiaroa Head
497	Castlepoint	986	Chatham Island
516	Westport Harbor		

## List II of SYNOP reports included in radiotelegraph broadcasts:

93003	Cape Reinga	93806	Puysegur Point
115	Auckland	848	Bluff
198	East Cape	896	Taiaroa Head
308	New Plymouth	944	Campbell Island
323	Wanganui	986	Chatham Island
372	Napier	995	Lord Howe Island
434	Wellington	996	Norfolk Island
526	Farewell Spit	997	Raoul Island
598	Cape Campbell	998	Macquarie Island
607	Greymouth	94768	Sydney
(516)	Westport Harbour	933	Gabo Island
794	Akaroa Head	(967)	C. Bruni
(783)	Wigram	970	Hobart

## South Pacific

STATION: Nandi, Fiji Islands (ZQD)

AREA AFFECTED: Pacific waters from Latitude 5° N. to 25° S., and from Longitude 160° E. to 150° W.

## INFORMATION AVAILABLE

<u>Type of Report</u>	<u>Code</u>
WARNINGS	Plain language
For area affected	
WEATHER SUMMARY	Plain language
For area affected	
SHIPS	FM 21A, FM 22A, FM 23A
SYNOP	FM 11A
ANALYSIS	FM 46A
For area affected	

## SCHEDULE OF TRANSMISSIONS

Time of Trans- mission G.C.T.	Call Sign	Frequency Kc.	Time of Obser- vation	Content of Transmission	Remarks
0930	ZQD2	5900	<div style="display: flex; align-items: center;"> <div style="font-size: 3em; margin-right: 5px;">{</div> <div> <div>---</div> <div>---</div> <div>0600</div> <div>0600</div> </div> </div>	WARNINGS	
	ZQD3	8084		SUMMARY	
	ZQD4	10497		SHIPS	
				SYNOP	
2130	ZQD2	5900	<div style="display: flex; align-items: center;"> <div style="font-size: 3em; margin-right: 5px;">{</div> <div> <div>---</div> <div>---</div> <div>1800</div> <div>1800</div> </div> </div>	WARNINGS	
	ZQD3	8084		SUMMARY	
	ZQD4	10497		SHIPS	
	ZQD5	15755		SYNOP	
2330	ZQD3	8084	<div style="display: flex; align-items: center;"> <div style="font-size: 3em; margin-right: 5px;">{</div> <div> <div>---</div> <div>1800</div> </div> </div>	WARNINGS	
	ZQD4	10497		ANALYSIS	
	ZQD5	15755			
	ZQD6	19370			

## List of SYNOP reports included in bulletins for broadcast

91490 Christmas Island	91700 Canton Island
543 Vanikoro	762 Apia
554 Espiritu Santo	788 Nukualofa
558 Vila	800 Pemrhyn
592 Noumea	818 Suwarrow
610 Tarawa	822 Niue
643 Funafuti	843 Rarotonga
650 Rotuma	995 Lord Howe Is.
652 Undu Point	996 Norfolk Is.
690 Lauthala Bay	997 Raoul Is.
699 Ono-i-lau	

## South Pacific

STATION: Lima, Peru (OBE)

AREA AFFECTED: Coastal waters of Peru.

## INFORMATION AVAILABLE

<u>Type of Report</u>	<u>Code</u>
FORECASTS	Plain language
For area affected	(Spanish)
SYNOP	FM 11A
Peru	
SHIPS	FM 21A

SCHEDULE OF TRANSMISSIONS					
Time of Trans- mission G.C.T.	Call Sign	Frequency Kc.	Time of Obs- er- vation G.C.T.	Content of Transmission	Remarks
0200	OBE	520 8650 12307	2300 2300	SYNOP SHIPS	Notes: (1) Forecasts transmitted at 1600 are for the period 1600 to 2200 G.C.T.; those sent at 2100 are for the period 2100 to 0500 G.C.T.
1600	"	"	1200 1300 --	SYNOP SHIPS FORECASTS	
2100	"	"	1800 1800 --	SYNOP SHIPS FORECASTS	

List of SYNOP reports included in the bulletins for broadcast:

84371	Zorritos	84582	Paramonga
377	Iquitos	603	San Ramon
390	Talara	623	Jauja
401	Piura	631	Limatambo
444	Chachapoyas	658	Pto. Maldonado
452	Chiclayo	686	Cuzco
472	Cajamarca	691	Pisco
501	Trujillo	717	Chuquibambilla
515	Pucallpa	731	Lomas
525	Agua Caliente	752	Arequipa
534	Tingo Maria	772	Moquequa
		782	Tacna

## South Pacific

STATION: Santiago, Chile (CCS)

AREA AFFECTED: Coastal waters and territory of Chile.

## INFORMATION AVAILABLE

<u>Type of Report</u>	<u>Code</u>
FORECAST	Plain language
For area affected	(Spanish)
WEATHER SUMMARY	Plain language
For area affected	(Spanish)
SYNOPSIS	FM 11A

## SCHEDULE OF TRANSMISSIONS

Time of Trans- mission G.C.T.	Call Sign	Frequency Kc.	Time of Obs- ervation G.C.T.	Content of Transmission	Remarks
0130	CCS	100 } 11990 } 18045 }	2300 2300 --	SUMMARY SYNOPSIS FORECAST	At times 6998 KC may be used instead of 100 KC.
1330	"	"	1200 1200 --	SUMMARY SYNOPSIS FORECAST	
2000	"	"	1800 1800 --	SUMMARY SYNOPSIS FORECAST	

List of SYNOPSIS reports included in the bulletins for broadcast:

85405 Arica	85727 Traiguén
442 Antofagasta (Cerro Moreno)	732 Isla Mocha
448 Monturaqui	742 Temuco
466 Caldera	767 Valdivia
468 Isla de Pascua	800 Puerto Montt
499 La Serena	834 Isla Guafo
545 El Cristo	861 Aysén
548 Los Andes	896 San Pedro
558 Punta Angeles	930 Islote Evangelistas
577 Santiago	941 Punta Arenas
585 Juan Fernandez	952 San Isidro
621 San Fernando	968 Ulaia (Navarino)
657 Linares	986 Bahía Soberanía
672 Chillan	988 Base O'Higgins
680 Talcahuano	



## APPENDIX

### I. List of Key Words and their meanings:

AIRCRAFT - Weather observations from aircraft.  
 ANALYSIS - Coded map analysis.  
 FORECAST - Forecast of expected weather conditions.  
 PILOT - Upper level wind observations.  
 RETARD - Late reports.  
 SHIPS - Weather observations from ships.  
 SYNOP - Weather observations from land stations.  
 SUMMARY - Plain language summary of weather conditions over an area.  
 TEMP - Upper level temperatures and humidities (radiosonde reports).  
 WARNINGS - Warnings of dangerous storms, with forecast of developments.

### II. Code forms for weather observations:

FM 11A (Surface reports from land stations)

(II)iii Nddff VVwww PPPTT NhClhCMCH TdTdapp (7RRjj) (8NsChshs)  
 (9SpSpssp)

FM 21A (Surface reports from ships in full code)

YQLaLaLa LoLoLoGG Nddff VVwww PPPTT NhClhCMCH Dsvsapp  
 (8NsChshs) (9SpSpssp) (OTsTsTdTd) (ldwdwPwHw) ICE - followed by  
 plain language or by (c2KDire).

FM 22A (Surface reports from ships in abbreviated form)

YQLaLaLa LoLoLoGG Nddff VVwww PPPTT NhClhCMCH (Dsvsxxx)

FM 23A (Surface reports from ships in short form)

YQLaLaLa LoLoLoGG Nddff VVwww (Dsvsxxx)

FM 32A (Upper wind reports from land stations)

(II)iii GGihDfa Hddff Hddff ..... etc. 9999n Hddff Hddff  
 ..... etc.

FM 33A (Upper wind reports from ship stations)

YQLaLaLa LoLoLoGG OOiHDfa Hddff Hddff ..... etc. 9999n Hddff  
 ..... etc.

FM 35A (Upper air pressure, temperature, and humidity soundings from land stations)

(II)iii (99PoPoPo ToToTdoTdoTxo) GGh1h1h1 T1T1Td1Td1Tx1 (Od1d1f1f1)

## FM 35A (continued)

P2P2h2h2h2 T2T2Td2Td2Tx2 (O2d2d2f2f2) ..... etc. 55555  
 (OOPoPoPo ToToTdoTdoTxo) (Ododofof) <sup>h1h1</sup><sub>n1n1</sub>P1P1P1 T1T1Td1Td1Tx1  
 (Od1d1f1f1) <sup>h2h2</sup><sub>n2n2</sub>P2P2P2 T2T2Td2Td2Tx2 (Od2d2f2f2) ..... etc.  
 66666 P1P1P1T1T1 (Od1d1f1f1) P2P2P2T2T2 (Od2d2f2f2) ..... etc.  
 77777 h1h1P1P1P1 Od1d1f1f1 h2h2P2P2P2 Od2d2f2f2 ..... etc.  
 88888 OOPoPoPo ToToTdoTdoTxo Ododofof <sup>h1h1</sup><sub>n1n1</sub>P1P1P1 T1T1Td1Td1Tx1  
 Od1d1f1f1 ..... etc.

## FM 36A (Upper air pressure, temperature, and humidity soundings from ship stations)

YQaLaLaLoLoLoGG (99PoPoPo ToToTdoTdoTxo) OOh1h1h1 T1T1Td1Td1Tx1 etc.,  
 as for FM 35.

## FM 41A (Reports from meteorological reconnaissance flights)

9xxx9 GGggi YQaLaLaLoLoLoVEVH hhhdt da dffff <sup>1</sup><sub>wmWMB</sub> fcQNQEQQW  
 1k<sub>N</sub>N1N2N3 ChhHH ChhHH ChhHH 2TTTdTd 3jHHH (4ddff) (5DFSDK) 6W<sub>S</sub>S<sub>S</sub>W<sub>O</sub>D<sub>W</sub>  
 7IrItSbSe 7hihiHiHi 8drdrSrOe 8weaeCeie.

## FM 42A (Reports from transport aircraft)

IaIaIaIaIa QLaLaLaLoLoLoLoPd YGGgg i4HHHfc <sup>1</sup><sub>LaLaLaLoLo</sub> LoGGg  
 (9GaGagaga Place) (8FFFF) TTwxIxBx (7ddff) (6<sup>"</sup>LaLaLoLo<sup>"</sup>) (5stftftft)  
 (4/3HdHdHdHd) (2Cehbhbhb) (1Cehtht) (ODFSDK).

## FM 45 (Analysis in full form)

10001 333x1x1 OYYGcGc or  
 10001 333x1x1 OYYGcGc 8x2x2x28 00x3x3x3 or  
 65556 333x1x1 OYYGcGc 00OGpGp or  
 65556 333x1x1 OYYGcGc 00OGpGp 8x2x2x28 00x3x3x3 (99900) (9NNSS)  
 8PtPcPP or 8hthchh yyyyy (.....) (mdsdsfsfs) (00C100) .....  
 ..... (99911) (9NNSS) 66FtFiFc yyyyy yyyyy ..... (mdsdsfsfs)  
 (00C100) ..... (99922) 4eluuu yyyyy yyyyy ..... (00C100)  
 ..... (99933) 33MhMhMt yyyyy yyyyy ..... (00C100) .....  
 ..... (99944) 989wei or 988ww or 987wsws yyyyy yyyyy .....

## FM 45 (continued)

(mdsdgfsfs) (OOC100) ..... (99955) (9NNSS) (55TtTiTc)  
 (555PP) (5555Ti) yyyyy yyyyy ..... (mdsdgfsfs) (OOC100) .....  
 ..... (99966) 2CsS1S2Z1 yyyyy yyyyy ..... (mdsdgfsfs) (OOC100) .....  
 ..... 77744 ..... vocabulary groups ..... 44777 19191.

## FM 46A (Analysis for marine use)

10001 33388\* OYYGcGc or  
 65556 33388\* OYYGcGc OOOGpGp  
 8PtPcPP QLaLaLoLo (QLaLaLoLo) mdsdgsfsfs 66FtFiFc QLaLaLoLo .....  
 ..... mdsdgsfsfs 44PPP QLaLaLoLo ..... (55TtTiTc) (555PP)  
 QLaLaLoLo ..... mdsdgsfsfs 987wsws QLaLaLoLo QLaLaLoLo ..... 77744  
 ..... vocabulary groups ..... 44777 19191.

\*or 33300, 33311, 33322 when LaLaLoLok is substituted for QLaLaLoLo.

Note: Groups of SYNOP, Pilot and other land station reports included in  
 in broadcasts may be preceded by the indicator 999II where II gives  
 the block designator for the station index numbers in the reports  
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