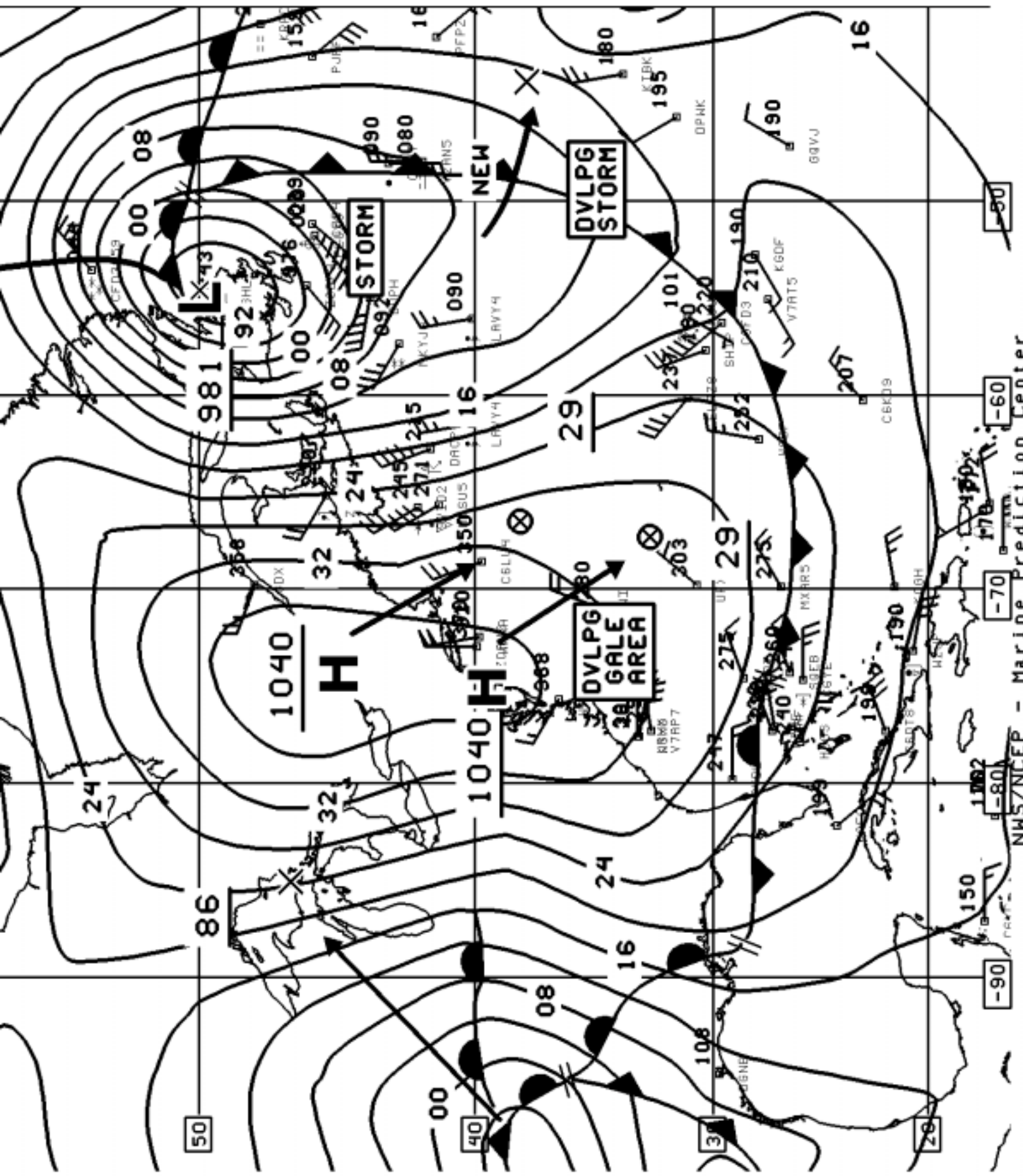


WORLDWIDE MARINE RADIOFACSIMILE BROADCAST SCHEDULES

**U.S. DEPARTMENT OF COMMERCE
NATIONAL OCEANIC and ATMOSPHERIC ADMINISTRATION**

NATIONAL WEATHER SERVICE

December 20, 2001



INTRODUCTION

A printed copy of this publication is distributed free of charge to all ships that participate in the U.S. Voluntary Observing Ship (VOS) program. If your ship is not participating in this worthwhile international program, we urge you to join. Remember, the meteorological agencies that do the weather forecasting cannot help you without input from you. **ONLY YOU KNOW THE WEATHER AT YOUR POSITION!!**

Please report the weather at 0000, 0600, 1200, and 1800 UTC as explained in the National Weather Service Observing Handbook No. 1 for Marine Surface Weather Observations. Within 300 nm of a named hurricane, typhoon or tropical storm, or within 200 nm of U.S. or Canadian waters, also report the weather at 0300, 0900, 1500, and 2100 UTC. Your participation is greatly appreciated by all mariners.

For assistance, contact a Port Meteorological Officer (PMO), who will come aboard your vessel and provide all the information you need to observe, code and transmit weather observations.

Appendix C contains information on a new and exciting PC software program known as AMVER/SEAS which greatly assists in coding and transmitting meteorological observations and AMVER position reports.

This publication is made available via Internet at:

<http://www.nws.noaa.gov/om/marine/home.htm>

This webpage contains information on the dissemination of U.S. National Weather Service marine products including radiofax, such as frequency and scheduling information as well as links to products. A listing of other recommended webpages may be found in the Appendix.

TABLE of C O N T E N T S

INTRODUCTION-----	i
TABLE OF CONTENTS-----	ii,iii
ABOUT THIS PUBLICATION-----	iii,iv

AFRICA

CAIRO, EGYPT-----	I-1
NAIROBI, KENYA-----	I-2,3
CAPE NAVAL, SOUTH AFRICA-----	I-3
DAKAR, SENEGAL-----	I-4

ASIA

BEIJING (PEKING), CHINA-----	II-1,2
SHANGHAI, CHINA-----	II-3
NEW DELHI, INDIA-----	II-3,4
TOKYO, JAPAN-----	II-4-6
PEVEK, CHUKOTKA PENINSULA-----	II-7
TAIPEI, REPUBLIC OF CHINA-----	II-7
SEOUL, REPUBLIC OF KOREA-----	II-7-8
BANGKOK, THAILAND-----	II-8-9
TASHKENT 1, UZBEKISTAN-----	II-9-10
TASHKENT 2, UZBEKISTAN-----	II-10
KYODO NEWS, JAPAN/SINGAPORE-----	II-11

SOUTH AMERICA

MARAMBIO, ARGENTINA-----	III-1
PUERTO BELGRANA, ARGENTINA-----	III-1
RIO DE JANEIRO, BRAZIL-----	III-1

NORTH AMERICA

HALIFAX, NOVA SCOTIA, CANADA-----	IV-1
IQUALUIT, N.W.T., CANADA-----	IV-2
RESOLUTE, N.W.T., CANADA-----	IV-2
KODIAK, ALASKA, U.S.A.-----	IV-3
POINT REYES, CALIFORNIA, U.S.A.-----	IV-4
NEW ORLEANS, LOUISIANA, U.S.A.-----	IV-5
BOSTON, MASSACHUSETTS, U.S.A.-----	IV-6
INUVIK, CANADA-----	IV-7

PACIFIC OCEAN BASIN

DARWIN & CANBERRA, AUSTRALIA-----	V-1,2
WELLINGTON, NEW ZEALAND-----	V-2
HONOLULU, HAWAII, U.S.A.-----	V-3,4

EUROPE

SKAMLEBAEK, DENMARK-----	VI-1
HAMBERG-PINNEBERG, GERMANY-----	VI-1,2
ATHENS, GREECE-----	VI-2
ROME, ITALY-----	VI-3
MOSCOW, RUSSIA-----	VI-4,5
MURMANSK, RUSSIA-----	VI-5
ANKARA, TURKEY-----	VI-5-6
NORTHWOOD, UNITED KINGDOM-----	VI-7

ANTARCTICA

CASEY-----	VII-1
CENTRO METEOROLOGICO ANTARTICO-----	VII-1

APPENDICIES

MARINE WEATHER VIA THE INTERNET INCLUDING RADIOFAX-----	A
FTPMAIL INSTRUCTIONS-----	B
NATIONAL HURRICANE CENTER LISTSERVER INSTRUCTIONS-----	B
UIUC HURRICANE LISTSERVER INSTRUCTIONS-----	B
AMVER/SEAS PC PROGRAM-----	C
USEFUL MARINE WEATHER PUBLICATIONS-----	D
PORT METEOROLOGICAL OFFICERS IN THE U.S.A.-----	E
SHIPBOARD ENVIRONMENTAL ACQUISITION SYSTEM (SEAS) PERSONNEL-----	F
PORT METEOROLOGICAL OFFICERS FOR CANADA-----	G
PORT METEOROLOGICAL OFFICERS FOR EUROPE-----	H
PORT METEOROLOGICAL OFFICERS FOR AFRICA, ASIA, INDIAN OCEAN AND PACIFIC RIM-----	I
NOAA WEATHER RADIO-----	Right Cover

ABOUT THIS PUBLICATION

The schedules contained in this book were obtained from official and unofficial sources. The information herein may neither be complete or accurate. Wherever possible, the schedules are dated with the latest change available. The National Weather Service would like to thank everyone who provided assistance.

For ease of use, all stations are listed by WMO region, in alphabetical order, by country and location. All times listed herein are Universal Coordinated Time (UTC), unless otherwise indicated.

Unless otherwise stated, assigned frequencies are shown, for carrier frequency subtract 1.9 kHz. Typically dedicated radiofax receivers use assigned frequencies, while receivers or transceivers, connected to external recorders or PC's, are operated in the upper sideband (USB) mode using carrier frequencies.

For information on weather broadcasts worldwide, also refer to NIMA Publication 117 and the British Admiralty List of Signals, which are updated through Notices to Mariners. Information on these and other marine weather publications may be found in Appendix D. Both these publications are HIGHLY recommended.

We receive many inquires on the status of the U.S. Navy radiofax broadcasts. The U.S. Navy terminated all regularly scheduled radiofax transmissions with the exception of the Mediterranean beginning January 1, 1998 and services to the Mediterranean from Rota, Spain beginning March 1, 1999. The system is operated in a back-up mode for on-demand service by fleet units upon request. These transmissions are to meet the requirements of the U.S. military and have no direct connection to the National Weather Service's radiofax program. For questions on the U.S. Navy's radiofax program, contact the NAVLANTMETOCCEN Command Duty Officer at 1-757-444-4044, e-mail cdo@nlmcc.navy.mil

This document also includes information on how to obtain National Weather Service text and graphic marine forecasts via the World Wide Web and e-mail. Mariners are highly encouraged to explore these options.

The accuracy of this publication depends on YOUR input.

Please direct comments, recommendations, additions or deletions for this publication to:

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National Weather Service W/OS21
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Silver Spring, MD 20910 USA
1-301-713-1677 x128
1-301-713-1598 (fax)
timothy.rulon@noaa.gov
marine.weather@noaa.gov
<http://www.nws.noaa.gov/om/marine/home.htm>

AFRICA

CAIRO, EGYPT

CALL SIGNS	FREQUENCIES	TIMES	EMISSION	POWER
SUU 36	4526 kHz	CONTINUOUS	F3C	10 KW
SUU 2	10123 kHz	CONTINUOUS	F3C	10 KW

TIME	CONTENTS OF TRANSMISSION	RPM/IOC	VALID TIME	MAP AREA
0000/1200	12HR SURFACE PROG	120/576	06/18	A
0020/1220	SURFACE ANALYSIS	120/576	18/06	A
0040/-----	30MB ANALYSIS	120/576	1200	A
-----/1240	SATELLITE IMAGE/WIND ANAL	120/576	1200	A
0340/1540	12HR 500MB PROG	120/576	12/00	A
0400/1600	12HR 300MB PROG	120/576	12/00	A
0420/1620	12HR 200MB PROG	120/576	12/00	A
0440/1640	12HR SIGNIFICANT WEATHER PROG	120/576	12/00	A
0500/1700	12HR MAX WIND PROG	120/576	12/00	A
0520/1720	12HR 700MB PROG	120/576	12/00	A
0540/1740	12HR 250MB PROG	120/576	12/00	A
0600/1800	12HR SURFACE PROG	120/576	12/00	A
0640/1240	24HR SURFACE PROG	120/576	00/12	A
0700/1900	850MB ANALYSIS	120/576	00/12	A
0720/1920	700MB ANALYSIS	120/576	00/12	A
0740/1940	500MB ANALYSIS	120/576	00/12	A
0800/2000	300MB ANALYSIS	120/576	00/12	A
0820/2020	250MB ANALYSIS	120/576	00/12	A
0840/2040	200MB ANALYSIS	120/576	00/12	A
0900/2100	TROPOPAUSE/MAX WIND ANALYSIS	120/576	00/12	A
0920/2120	100MB ANALYSIS	120/576	00/12	A
0940/2140	18HR 500MB PROG	120/576	18/06	A
1000/2200	18HR 300MB PROG	120/576	18/06	A
1020/2220	18HR 200MB PROG	120/576	18/06	A
1040/2240	18HR SIGNIFICANT WEATHER PROG	120/576	18/06	A
1120/2320	18HR 700MB PROG	120/576	18/06	A
1140/2340	18HR 250MB PROG	120/576	18/06	A

NOTES: 1. DURATION TIMES (I.E. 18HR) MAY BE INCORRECT.

MAP AREA: A - 1:20,000,000 20W - 085E 61N - 10S

(INFORMATION DATED 09/1996) Transmissions reported to be in LSB (add 1.9 kHz for carrier frequency)

NAIROBI, KENYA

CALL SIGNS	FREQUENCIES	TIMES	EMISSION	POWER
5YE1	9043 kHz	CONTINUOUS	F3C	6 KW
5YE2	12315 kHz	CONTINUOUS	F3C	30 KW
5YE8	15525 kHz	CONTINUOUS	F3C	30 KW
5YE6	16315 kHz	CONTINUOUS	F3C	30 KW
5YE3	17365 kHz	CONTINUOUS	F3C	6 KW
5YE7	22867 kHz	CONTINUOUS	F3C	30 KW

TIME	CONTENTS OF TRANSMISSION	RPM/IOC	VALID TIME	MAP AREA
0010/-----	18HR SIGNIFICANT WEATHER PROG (MID LEVEL)	120/576	1200	B
-----/1210	700MB ANALYSIS	120/576	0600	B
-----/1229	500MB ANALYSIS	120/576	0600	B
-----/1248	300MB ANALYSIS	120/576	0600	B
-----/1307	250MB ANALYSIS	120/576	0600	B
-----/1326	200MB ANALYSIS	120/576	0600	E
-----/1345	SURFACE ANALYSIS (INDIAN OCEAN)	120/576	0600	E
-----/1430	LOW LEVEL CONVERGENCE ZONES	120/576	1200	C
-----/1455	24HR PRESSURE CHANGE	120/576	1200	D
0350/-----	TEST CHART	120/576		
0400/1600	18HR SIGNIFICANT WEATHER PROG (MID LEVEL)	120/576	18/06	A
-----/1638	SURFACE ANALYSIS	120/576	1200	D
-----/1653	850MB ANALYSIS	120/576	1200	D
-----/1708	SURFACE ANALYSIS	120/576	1200	E
-----/1722	18HR SIGNIFICANT WEATHER PROG (HI LEVEL)	120/576	0600	A
0540/-----	18HR SIGNIFICANT WEATHER PROG (LOW LEVEL)	120/576	1800	A
0600/1742	18HR SIGNIFICANT WEATHER PROG (MID LEVEL)	120/576	18/06	B
-----/1802	24HR SURFACE PROG	120/576	1200	D
-----/1820	700MB ANALYSIS	120/576	1200	B
-----/1839	500MB ANALYSIS	120/576	1200	B

NAIROBI, KENYA

TIME	CONTENTS OF TRANSMISSION	RPM/IOC	VALID TIME	MAP AREA
-----/1858	300MB ANALYSIS	120/576	1200	B
-----/1917	250MB ANALYSIS	120/576	1200	B
-----/1936	200MB ANALYSIS	120/576	1200	B
0830/-----	TEST CHART	120/576		
0844/2055	24HR 500MB PROG	120/576	00/12	B
0903/2114	24HR 300MB PROG	120/576	00/12	B
0922/2133	24HR 250MB PROG	120/576	00/12	B
0941/2152	24HR 200MB PROG	120/576	00/12	B
1000/2210	18HR SIGNIFICANT WEATHER PROG (MID LEVEL)	120/576	00/12	A
1017/2350	18HR SIGNIFICANT WEATHER PROG (HI LEVEL)	120/576	00/12	A
1037/-----	18HR SIGNIFICANT WEATHER PROG (MID LEVEL)	120/576	0000	B
1057/-----	SURFACE ANALYSIS	120/576	0600	D
1112/-----	UPPER AIR ANALYSIS	120/576	0600	D
1127/-----	24HR PRESSURE CHANGE	120/576	0600	D
1142/-----	24HR SURFACE PROG	120/576	0600	D

NOTE: CHANGES TO THE SCHEDULE WILL BE TRANSMITTED AT 0830 IN PLACE OF THE NORMAL TEST CHART.

MAP AREAS: A - 1:15,000,000 30N 005W, 30N 070E, 30S 005W, 30S 070E
 B - 1:25,000,000 55N 020W, 55N 090E, 35S 020W, 35S 090E
 C - 1:07,500,000 22N 025E, 22N 060E, 02S 025E, 02S 060E
 D - 1:15,000,000 30N 015E, 30N 070E, 30S 015E, 30S 070E
 E - 1:15,000,000 20N 030E, 20N 070E, 30S 030E, 30S 070E

(INFORMATION DATED 09/1996) Reported as being operational only on frequencies of 9045 (5YE1?) and 17445.5 (5YE3?) kHz

CAPE NAVAL, SOUTH AFRICA

CALL SIGNS	FREQUENCIES	TIMES	EMISSION	POWER
ZSJ	4014 kHz	16Z-06Z (when available)	F3C	10 KW
ZSJ	7508 kHz	CONTINUOUS	F3C	10 KW
ZSJ	13538 kHz	CONTINUOUS	F3C	10 KW
ZSJ	18238 kHz	16Z-06Z (when available)	F3C	10 KW

TIME	CONTENTS OF TRANSMISSION	RPM/IOC	VALID TIME	MAP AREA
0430	SCHEDULE	120/576		
0500	SURFACE ANALYSIS(SHIPPING)	120/576	0000	ASXX
0630	UPPER AIR PROG	120/576	1200	FUXX
0730	SURFACE PROG	120/576	1200	FSXX
0800	ANTARTIC ICE LIMITS (OCT-MAR)	120/576		AIAA
0915	RTTY WEATHER BULLETINS FOR COASTAL WATERS AND HIGHSEAS	RTTY	(170 Hz shift, 75 Baud)	
1030	SURFACE ANALYSIS(SHIPPING)	120/576	0600	ASXX
1100	SURFACE PROG	120/576	0000	FSXX
1530	SURFACE ANALYSIS(SHIPPING)	120/576	1200	ASXX
1700	RTTY WEATHER BULLETINS FOR COASTAL WATERS AND HIGHSEAS	RTTY	(170 Hz shift, 75 baud)	
2230	SURFACE ANALYSIS(SHIPPING)	120/576	1800	ASXX

MAP AREAS:

ASXX 1:20,000 Lambert 00S20W 00S70E 60S50W 60S90E
 FUXX 1:20,000 Mercator 00S30W 00S60E 60S30W 60S60E
 FSXX 1:20,000 Mercator 00S30W 00S60E 60S30W 60S60E
 AIAA 0E to 30W Antarctic coast to edge of ice pack except NIC West

(INFORMATION DATED 03/00)

DAKAR, SENEGAL

CALL SIGNS	FREQUENCIES	TIMES	EMISSION	POWER
6VU 23	4790.5 kHz	CONTINUOUS	F3C	5 KW
6VU 73	13667.5 kHz	CONTINUOUS	F3C	10 KW
6VU 79	19750 kHz	CONTINUOUS	F3C	10 KW

TIME	CONTENTS OF TRANSMISSION	RPM/IOC	VALID TIME	MAP AREA
-----/1240	TEST CHART	120/576		
0100/1300	18HR SIGNIFICANT WEATHER PROG	60/576	12/00	B
0340/-----	TEST CHART	120/576		
0400/1600	SURFACE ANALYSIS	120/576	00/12	A
0445/1645	850MB ANALYSIS	120/576	00/12	A
0500/1700	700MB ANALYSIS	120/576	00/12	A
0515/1715	300MB ANALYSIS	120/576	00/12	A
0530/1730	250MB ANALYSIS	120/576	00/12	A
0545/1745	18HR SIGNIFICANT WEATHER PROG	60/576	18/06	C
0615/1815	200MB ANALYSIS	120/576	00/12	A
0630/1830	500MB ANALYSIS	120/576	00/12	A/B
0700/1900	18HR SIGNIFICANT WEATHER PROG	60/576	18/06	B
0740/1940	TEST CHART	120/576		
0820/2020	24HR UPPER AIR PROG (FL 180)	120/576	00/12	B
0840/2040	24HR UPPER AIR PROG (FL 300)	120/576	00/12	B
0900/2100	24HR UPPER AIR PROG (FL 340)	120/576	00/12	B
0920/2120	24HR UPPER AIR PROG (FL 390)	120/576	00/12	B
0940/2140	TEST CHART	120/576		
1000/2200	SURFACE ANALYSIS	120/576	06/18	A
1040/2240	TEST CHART	120/576		
1145/2345	18HR SIGNIFICANT WEATHER PROG	60/576	00/12	C

NOTE: THE TRANSMISSION IS CENTERED 1.900 Hz ABOVE THE ASSIGNED FREQUENCY.

MAP AREAS: A - 35N 035W, 35N 022.5E, EQ 035W, EQ 022.5E
 B - 1:15,000,000 55N 030W, 55N 040.0E, 05S 030W, 05S 040.0E
 C - 1:25,000,000 40N 050W, 40N 033.0E, 20S 050W, 20S 033.0E

(INFORMATION DATED 09/1996) Operations of this station may have terminated in 1998

ASIA

BEIJING (PEKING), CHINA

CALL SIGNS	FREQUENCIES	TIMES	EMISSION	POWER
BAF6	5526.9 kHz		F3C	6-8 KW
BAF36	8121.9 kHz		F3C	6-8 KW
BAF4	10116.9 kHz		F3C	10 KW
BAF8	14366.9 kHz		F3C	15 KW
BAF9	16025.9 kHz		F3C	?? KW
BAF33	18236.9 kHz		F3C	6-8 KW

TIME	CONTENTS OF TRANSMISSION	RPM/IOC	VALID TIME	MAP AREA
0008	24HR/36HR/48HR PRECIPITATION PROG (1 JUN-30 SEP)	120/576	1200	E
0132	36HR/48HR SURFACE PROG	120/576	1200	A1
0154	TYPHOON WARNING (IN ENGLISH & CHINESE)(1)	120/576	0000	
0216	36HR MINIMUM TEMP PROG(1 OCT-30 APR)	120/576		E
	48HR MAXIMUM TEMP PROG(1 MAY-30 SEP)	120/576		E
0238	24HR/48HR PRECIPITATION PROG (1 MAY-30 SEP)	120/576	0000	E
	60HR MINIMUM TEMP PROG (1 OCT-30 APR)	120/576		E
0300	SATELLITE PICTURE ANALYSIS (1 MAY-30 SEP)	120/576		
0406	500MB PLOTTED DATA	120/576	0000	E
0428	48HR SURFACE PROG	120/576	1800	F
0450	SURFACE ANAL	120/576	0000	H
0724	SATELLITE PICTURE ANALYSIS (1 MAY-30 SEP)	120/576		
0746	TYPHOON WARNING (IN ENGLISH & CHINESE)(1)	120/576	0600	
0830	SURFACE PRESSURE ANALYSIS	120/576	0000	C
0852	24HR PRECIPITATION PROG	120/576		J
1126	TYPHOON TRACK PROG (2)	120/576	0000	D
1148	TEST CHART (4)	120/576		
1158	PROGRAM AMENDMENTS (4)	120/576		
1340	TYPHOON WARNING (IN ENGLISH AND CHINESE)(1)	120/576	1200	
1904	500MB PLOTTED DATA	120/576	1200	E
1926	SURFACE PRESSURE ANALYSIS	120/576	1200	G
1948	TYPHOON WARNING (IN ENGLISH AND CHINESE)(1)	120/576	1800	
2134	24 HR SURFACE ANALYSIS	120/576	1200	A1
2218	36HR/48HR 500 MB VORICITY ANALYSIS	120/576	1200	I
2240	TYPHOON TRACK PROG (2)	120/576	1200	D

NOTES: (1) IN CASE OF TYPHOON
(4) ON MONDAYS

MAP AREAS:

Area	Coordinates	NORTHERN HEMISPHERE
A1 -	1:30,000,000	
C -	1:23,000,000	70S 040E, 70S 130W, 40N 040E, 40N 130W
D -	1:10,000,000	50N 105E, 50N 160E, 45N 105E, 45N 160E
E -	1:20,000,000	10N 085E, 10N 135E, 45N 066E, 45N 150E
F -	1:20,000,000	05S 033E, 04S 130E, 43N 041E, 20N 160E
G -	1:10,000,000	06N 085E, 03N 142E, 47N 063E, 41N 168E
H -	1:10,000,000	04S 070E, 02S 145E, 42N 023E, 48N 174E
I -	1:10,000,000	15N 075E, 15N 125E, 40N 040E, 45N 150E
J -	1:03,000,000	43N 108E, 43N 120E, 33N 108E, 33N 120E

(INFORMATION DATED 11/1997)

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SHANGHAI, CHINA

CALL SIGN	FREQUENCIES	TIMES	EMISSION	POWER
BDF	3241 kHz		F3C	
	5100 kHz		F3C	
	7420 kHz		F3C	
	11420 kHz		F3C	
	18940 kHz		F3C	

TIME	CONTENTS OF TRANSMISSION	RPM/IOC	VALID TIME	MAP AREA
0010	SURFACE PROG	120/576		B
0130	SURFACE ANALYSIS	120/576		A
1810	SURFACE PROG	120/576		B
2030	SURFACE ANALYSIS	120/576		A

MAP AREAS: A - 60N 90E, 50N 180, 10N 100E, 05N 160E
 B - YELLOW SEA, EAST CHINA SEA

(INFORMATION DATED 12/1992) This schedule reported as being out of date

NEW DELHI, INDIA

CALL SIGNS	FREQUENCIES	TIMES	EMISSION	POWER
ATP57	7403 kHz	1430-0230	B9W	5 KW
ATV65	14840 kHz	0230-1430	B9W	7.5 KW

TIME	CONTENTS OF TRANSMISSION	RPM/IOC	VALID TIME	MAP AREA
0011/1211	SURFACE ANALYSIS	120/576	18/06	A
0030/1230	24HR 250MB WIND & TEMP PROG	120/576	12/00	H
0050/1248	24HR 500MB WIND & TEMP PROG	120/576	12/00	H
0110/1306	24HR 850MB WIND & TEMP PROG	120/576	12/00	H
0130/1324	12HR SIGNIFICANT WEATHER PROG (4 PANEL)	120/576	(1)	B
0150/-----	96HR 500MB PROG (ECMWF)	120/576	1200	A
-----/1342	24HR 300MB WIND & TEMP PROG	120/576	0000	H
0200/1400	24HR 400MB WIND & TEMP PROG	120/576	12/00	H
0238/-----	24HR 300MB WIND & TEMP PROG	120/576	12/00	H
-----/1430	24HR 200MB WIND & TEMP PROG	120/576	0000	H
0300/-----	24HR 700MB WIND & TEMP PROG	120/576	1200	H
-----/1448	24HR 150MB WIND & TEMP PROG	120/576	0000	H
0300/-----	24HR 200MB WIND & TEMP PROG	120/576	1200	H
-----/1506	24HR 700MB WIND & TEMP PROG	120/576	0000	H
0340/-----	24HR 150MB WIND & TEMP PROG	120/576	1200	H
0400/-----	48HR 200MB WIND PROG (ECMWF)	120/576	1200	A
0420/-----	72HR 500MB PROG (ECMWF)	120/576	1200	A
0440/-----	7 DAY MEAN SST ANALYSIS	120/576		F
0600/-----	INSAT IR SATELLITE IMAGE	120/576	0000	F
0622/1810	TEST CHART	120/576		
0634/1820	SURFACE ANALYSIS	120/576	00/12	A
-----/1840	500MB RELATIVE VORTICITY ANAL	120/576	1200	E
0654/1910	850MB ANALYSIS	120/576	00/12	A
0714/1928	700MB ANALYSIS	120/576	00/12	A
0734/1946	500MB ANALYSIS	120/576	00/12	A
0753/2004	300MB ANALYSIS	120/576	00/12	A
0812/2022	24HR SURFACE PROG	120/576	00/12	A
0834/2040	12HR SIGNIFICANT WEATHER PROG (4 PANEL)	120/576	(1)	B
0856/2100	200MB ANALYSIS	120/576	00/12	A
0916/2118	850-500MB THICKNESS ANALYSIS	120/576	00/12	A
0936/-----	24HR 500MB PROG	120/576	0000	A
-----/2136	500MB RELATIVE VORTICITY ANALYSIS	120/576	1200	D
1005/2205	SIGNIFICANT WEATHER RECEIVED FROM TOKYO	120/576		

NEW DELHI, INDIA

TIME	CONTENTS OF TRANSMISSION	RPM/IOC	VALID TIME	MAP AREA
-----/2223	24HR 500MB PROG	120/576	1200	A
1025/2241	24HR 300MB PROG	120/576	00/12	A
1055/2259	24HR 250MB PROG	120/576	00/12	B
1115/2317	24HR 200MB PROG	120/576	00/12	A
1135/2335	24HR TROPOPAUSE/MAX WIND PROG	120/576	00/12	A
1153/2353	24HR 100MB PROG	120/576	00/12	A

NOTES: 1. 0300-1500, 0900-2100, 1500-0300, 2100-0500

MAP AREAS: A - 1:20,000,000 45N - 25S, 30E - 125E
 B - 1:20,000,000 EQ - 40N, 30E - 125E
 D - 1:20,000,000 5N - 42.5N, 40E - 120E
 E - 1:20,000,000 EQ - 60N, 25E - 120E
 F - 1:20,000,000 EQ - 25N, 55E - 100E
 H - 1:20,000,000 15S - 67.5N, 000E - 180E

(INFORMATION DATED 01/1998)

TOKYO, JAPAN

CALL SIGNS	FREQUENCIES	TIMES	EMISSION	POWER
JMH	3622.5 kHz	CONTINUOUS	F3C	5 KW
JMH2	7305 kHz	CONTINUOUS	F3C	5 KW
JMH3	9970 kHz	CONTINUOUS	F3C	5 KW
JMH4	13597 kHz	CONTINUOUS	F3C	5 KW
JMH5	18220 kHz	CONTINUOUS	F3C	5 KW
JMH6	23522.9 kHz	CONTINUOUS	F3C	5 KW

TIME	CONTENTS OF TRANSMISSION	RPM/IOC	VALID TIME	MAP AREA
0000/-----	48/72HR SURFACE PRESSURE/PRECIP PROGS	120/576	1200	C
-----/1200	24HR/48HR 850MB STREAM LINES PROGS	120/576	0000	H
0020/-----	96HR SURFACE PRESSURE/PRECIP PROGS	120/576	1200	C
-----/1220	850MB/200MB STREAM LINES ANALYSIS	120/576	0000	H
0040/-----	120HR SURFACE PRESSURE/PRECIP PROGS	120/576	1200	C
-----/1240	24HR/48HR 200/850 MB STREAM LINES PROGS	120/576	0000	H
0103/1303	TEST CHART	120/576		
0110/1310	GMS SATELLITE IMAGE	120/576	00/12	C'
0130/-----	SEA ICE ANALYSIS (2) & 48HR/168HR PROG (3) (SEASONAL)	120/576		L/L'
0150/1350	TROPICAL CYCLONE FORECAST(1)	120/576	00/12	E
0210/-----	10-DAY MEAN SEA SURFACE TEMP PROG (4)	120/576		J
	10-DAY MEAN SEA SURFACE TEMP ANOMOLY (5)	120/576		J
	SEA SURFACE CURRENT (6)	120/576		K
	SUB-SURFACE TEMP AT 100M (7)	120/576		K'
	10-DAY MEAN SEA SURFACE TEMP, CURRENT PROG (8)	120/576		P
0229/-----	RADIO PREDICTION (9)	120/576		
0240/1440	SURFACE ANALYSIS	120/576	00/12	C
0300/-----	10-DAY SEA SURFACE TEMP ANOMALY(4)/ANOMALY PROG(8)	120/576	LATEST	J'/J
0320/1520	SURFACE ANALYSIS	120/576	00/12	C'
0340/-----	BROADCAST SCHEDULE/MANUAL AMENDMENTS	120/576		
0402/1620	700MB ANALYSIS	120/576	00/12	C
0421/-----	WAVE ANALYSIS (NORTH PACIFIC)	120/576	0000	C'
0440/-----	WAVE ANALYSIS (JAPAN AREA)	120/576	0000	
0459/1640	500MB ANALYSIS	120/576	00/12	C
0518/1700	850MB ANALYSIS	120/576	00/12	C
-----/1719	WAVE ANALYSIS (JAPAN AREA)	120/576	1200	
0537/1738	500MB HT/VORTICITY/850MB TEMP/700MB VERTICAL P-VEL ANALYSIS	120/576	00/12	A'
0548/-----	24HR SURFACE PROG	120/576	0000	C
0607/1749	24HR 500MB HT/VORTICITY/SURFACE PRES/PRECIP PROGS	120/576	00/12	C

TOKYO, JAPAN

TIME	CONTENTS OF TRANSMISSION	RPM/IOC	VALID TIME	MAP AREA
0618/1800	24HR 500MB TEMP & 700MB DEW POINT DEPRESSION PROG			
0629/1811	24HR 850MB TEMP, WIND & 700MB VERTICAL P-VELOCITY PROG	120/576	00/12	A'
0640/1822	36HR 500MB HEIGHT & VORTICITY PROG/ 36HR SURFACE PRESSURE/PRECIP PROG	120/576	1200	A'
0651/-----	36HR 500MB TEMP/700MB DP DEPRESSION PROG			
0710/1910	24HR WAVE PROG (NORTH PACIFIC)	120/576	1200	A'
0730/-----	GMS SATELLITE IMAGERY	120/576	0000	
-----/1930	24HR WAVE HEIGHT PROG (JAPAN AREA)	120/576	06/18	C'
0750/1950	24HR SURFACE/PRECIP PROG	120/576	0000	
-----/2010	TROPICAL CYCLONE FORECAST (1)	120/576	1200	E
0820/-----	24HR WAVE HEIGHT PROG (1) (JAPAN AREA)	120/576	00/C-	C
0840/2040	48HR SURFACE PRESSURE/PRECIP PROG	120/576	06/18	C'
0900/-----	SURFACE ANALYSIS	120/576	0000	
-----/2100	48HR 500MB HT/VORTICITY PROG	120/576	1200	C
0920/2120	48HR SURFACE PRESSURE/PRECIP PROGS	120/576	1200	C
0940/-----	SURFACE ANALYSIS	120/576	06/18	C
-----/2140	48/72HR SURFACE PRESSURE/PRECIP PROG	120/576	0000	C
1000/-----	48HR 500MB HT/VORTICITY PROG	120/576	1200	C
-----/2200	72HR 500MB HT/VORTICITY PROG	120/576	0000	C
1019/-----	48HR 850MB TEMP/WIND & 700MB VERTICAL P-VELOCITY PROG	120/576	1200	C
-----/2220	SEA ICE CONDITION ANAL(2)/48HR & 168 HR PROGS(3)	120/576	LATEST	L/L'
1040/-----	72HR 500MB HT/VORTICITY PROG	120/576	1200	C
-----/2240	24HR SURFACE PROG	120/576	0000	C
-----/2300	72HR 850MB TEMP/WIND & 700MB VERT P-VELOCITY PROG	120/576	1200	C
1111/-----	24HR/48HR 850MB STREAM LINES PROG	120/576	1200	H
	10-DAY MEAN SEA SURFACE TEMP PROG (4)	120/576		J
	10-DAY MEAN SEA SURFACE TEMP ANOMOLY(5)	120/576		J
	SEA SURFACE CURRENT (6)	120/576		K
	SUB-SURFACE TEMP AT 100M (7)	120/576		K'
	10-DAY MEAN SEA SURFACE TEMP, CURRENT PROG (8)	120/576		P
-----/2320	850MB/200MB STREAM LINES ANALYSIS	120/576	1200	H
1130/-----	10-DAY MEAN SEA SURFACE TEMP ANOMALY (4)	120/576		J'
	10-DAY MEAN SEA SURFACE TEMP ANOMALY PROG(8)	120/576		J
-----/2340	24HR/48HR 200MB STREAM LINES PROG	120/576	1200	H

- NOTES:(1) IN CASE OF TROPICAL CYCLONE
 (2) ON TUESDAY AND FRIDAY.
 (3) ON WEDNESDAY AND SATURDAY.
 (4) ON 2ND, 12TH AND 22ND.
 (5) ON 4TH, 14TH AND 24TH.
 (6) ON 6TH, 10TH, 16TH, 20TH, 26TH, AND 30TH (MARCH 1ST IF LEAP YEAR).
 (7) ON THE 7TH, 17TH AND 27TH OF EACH MONTH.
 (8) ON THE 9TH, 19TH, AND 29TH (ON FEB 28TH IF NOT LEAP YEAR).
 (9) ON 20TH AN 21ST.
 (10) ALTERNATING BLACK & WHITE SIGNALS WITH FREQUENCY OF 300Hz ARE TRANSMITTED FOR 10 SECONDS FOLLOWED BY PHASING SIGNALS TRANSMITTED FOR 30 SECONDS PRIOR TO CHART TRANSMISSION. STOP SIGNALS WILL BE TRANSMITTED FOR 15 SECONDS AT THE END OF EACH CHART.

MAP AREAS: A' - 1:25,000,000 38N 086E, 51N 177E, 12N 111E, 17N 157E
 C - 1:20,000,000 27N 062E, 51N 152W, 05S 106E, 02N 160E
 C' - 1:20,000,000 39N 066E, 39N 146W, 01S 113E, 01S 167E
 D - 1:43,000,000 03S 065E, 11N 032W, 01S 132E, 15N 125W
 D' - 1:63,000,000 14S 005E, 14S 085W, 16S 097E, 16S 177W
 E - 1:30,000,000 30N 091E 43N 169E, 07N 154E 02N 113E
 H - 1:35,000,000 60N 080E 60N 160W, 20S 080E 20S 160W
 J - 1:15,000,000 53N 115E, 53N 180, EQ 115E, EQ 180
 J' - 1:22,000,000 53N 115E, 53N 180, EQ 115E, EQ 180
 K - 1:15,000,000 60N 100E, 60N 180, EQ 100E, EQ 180
 K' - 1:08,000,000 51N 120E, 51N 180, 18N 120E, 18N 180
 L - 1:10,000,000 SEA OF OKHOTSK, NORTHERN SEA OF JAPAN, BO HAI, AND
 ADJACENT WATERS OF THE NORTH PACIFIC.
 L' - 1:05,000,000 49N 140E 49N 151E, 41N 140E 40N 149E

TOKYO, JAPAN

O - 1:43,000,000	36N 010E, 24N	170W, 10N	063E, 04N 144E
P - 1:54,000,000	70N 090E, 70N	070W, 70S	090E, 70S 070W
X - 1:10,000,000	46N 107E, 43N	160E, 18N	118E, 17N 147E
X' - 1:43,000,000	48N 093E, 55N	176E, 16N	120E, 18N 155E

(INFORMATION DATED 03/2001)

PEVEK, CHUKOTKA PENINSULA

CALL SIGNS	FREQUENCIES 148 kHz	TIMES CONTINUOUS	EMISSION F3C	POWER	
TIME	CONTENTS OF TRANSMISSION		RPM/IOC	VALID TIME	MAP AREA
0530-0730	ICE		90/576		
1130-1330	ICE		90/576		
1430-1630	ICE		90/576		

(INFORMATION DATED 11/97)

TAIPEI, REPUBLIC OF CHINA

CALL SIGN	FREQUENCIES	TIMES	EMISSION	POWER
BMF	4616 kHz		F3C	10 KW
	5250 kHz		F3C	10 KW
	8140 kHz		F3C	10 KW
	13900 kHz		F3C	10 KW
	18560 kHz		F3C	10 KW

TIME	CONTENTS OF TRANSMISSION	RPM/IOC	VALID TIME	MAP AREA
0010/-----	GFS 72HR 850MB EQUATORIAL BELT WIND PROG	120/576	1200	
0025/-----	GFS 72HR 200MB EQUATORIAL BELT WIND PROG	120/576	1200	
0050/-----	BROADCAST SCHEDULE	120/576		
0120/1320	GMS SATELLITE IMAGE	120/576	00/12	
0200/1400	TYPHOON WARNINGS (ENGLISH & CHINESE)	120/576	00/12	
0300/1500	FISHERY WEATHER FORECAST (IN CHINESE)	120/576	00/12	
0350/1550	SURFACE ANALYSIS WITH PLOTTED DATA	120/576	00/12	
0425/-----	24HR SURFACE PROG	120/576	0000	
0450/-----	TEST CHART	120/576		
0500/1700	TYPHOON WARNING (ENGLISH & CHINESE)	120/576	03/15	
0525/1725	850MB ANALYSIS WITH PLOTTED DATA	120/576	00/12	
0540/1740	700MB ANALYSIS WITH PLOTTED DATA	120/576	00/12	
0555/1755	500MB ANALYSIS WITH PLOTTED DATA	120/576	00/12	
0610/1810	300MB ANALYSIS WITH PLOTTED DATA	120/756	00/12	
0625/1825	RFS SURFACE PRESSURE ANALYSIS /RFS 500MB HEIGHT ANALYSIS	120/576	00/12	
0640/1840	RFS 12HR SURFACE PROG/RFS 12HR 500MB PROG	120/576	12/00	
0655/1855	RFS 24HR SURFACE PROG/RFS 24HR 500MB PROG	120/576	00/12	
0708/1908	RFS 36HR SURFACE PROG/RFS 24HR 500MB PROG	120/576	12/00	
0720/1920	GMS SATELLITE IMAGE	120/576	06/18	
0735/1935	RFS 48HR SURFACE PROG/RFS 48HR 500MB PROG	120/576	00/12	
0745/1945	GFS 850MB EQUATORIAL BELT WIND ANALYSIS	120/576	00/12	
0800/2000	TYPHOON WARNINGS (ENGLISH & CHINESE)	120/576	06/18	
0825/2025	GFS 12HR 850MB EQUATORIAL BELT WIND PROG	120/576	12/00	
0840/2040	GFS 48HR 850MB EQUATORIAL BELT WIND PROG	120/576	00/12	
0900/2100	FISHERY WEATHER FORECAST (IN CHINESE)	120/576	06/18	
0935/-----	WAVE ANALYSIS	120/576	0000	
-----/2135	GFS 72HR SURFACE PROG	120/576	1200	
0950/2150	SURFACE ANALYSIS WITH PLOTTED DATA	120/576	06/18	
-----/2210	GFS 72HR 500MB PROG	120/576	1200	
1015/-----	24HR WAVE PROG	120/576	0000	
1030/2230	GFS 200MB EQUATORIAL BELT WIND ANALYSIS	120/576	00/12	
1045/2245	GFS 24HR 200MB EQUATORIAL BELT WIND PROG	120/576	00/12	
1100/2300	TYPHOON WARNING (ENGLISH & CHINESE)	120/576	09/21	
1125/2325	GFS 48HR 200MB EQUATORIAL BELT WIND PROG	120/576	00/12	
-----/2340	GFS 96HR SURFACE PROG	120/576	1200	
-----/2355	GFS 96HR 500MB PROG	120/576	1200	

MAP AREA: 48N 060E, 48N 172W, EQ 099E, EQ 154E

(INFORMATION DATED 02/1999) <http://marine.cwb.gov.tw/CWBMMC/BMF-E.html>

SEOUL, REPUBLIC OF KOREA

CALL SIGN	FREQUENCIES	TIMES	EMISSION	POWER
HLL2	5385 kHz	CONTINUOUS	F3C	3 KW
HLL2	5857.5 kHz	CONTINUOUS	F3C	3 KW
HLL2	7433.5 kHz	CONTINUOUS	F3C	3 KW
HLL2	9165 kHz	CONTINUOUS	F3C	3 KW
HLL2	13570 kHz	CONTINUOUS	F3C	3 KW

SEOUL, REPUBLIC OF KOREA

TIME	CONTENTS OF TRANSMISSION	RPM/IOC	VALID TIME	MAP AREA
0000/1200	LOCAL WEATHER ADVISORY/WARNING REPORT (KOREAN)	120/576		
0020/1220	LOCAL WEATHER ADVISORY/WARNING REPORT (KOREAN)	120/576	00/12	
0032/-----	LIGHTHOUSE WEATHER OBSERVATION REPORT (KOREAN)	120/576	0000	
0046/1246	WEATHER OBSERVATION REPORT FOR FISHERY (KOREAN)	120/576	00/12	
0120/-----	MANUAL AMENDMENTS	120/576		
0140/1340	SURFACE ANALYSIS	120/576	00/12	
0200/1400	TYPHOON WARNING AND FORECAST (1)(KOREAN)	120/576	00/12	
0300/-----	KOREAN PENINSULA MONTHLY WEATHER FORECAST (2)(KOREAN)	120/576		
-----/1500	LOCAL WEATHER ADVISORY/WARNING REPORT (KOREAN)	120/576		
0320/1520	SEA-SHORE WEATHER OBSERVATION REPORT (KOREAN)	120/576	03/15	
0332/-----	LIGHTHOUSE WEATHER OBSERVATION REPORT (KOREAN)	120/576	0300	
0346/1546	WEATHER OBSERVATION REPORT FOR FISHERY (KOREAN)	120/576	03/15	
0415/-----	KOREAN PENINSULA WEEKLY WEATHER FORECAST (KOREAN)	120/576		
0440/1640	SURFACE ANALYSIS	120/576	03/15	
0455/1655	850MB ANALYSIS	120/576	00/12	
0507/1707	700MB ANALYSIS	120/576	00/12	
0519/1719	500MB ANALYSIS	120/576	00/12	
0600/1800	LOCAL WEATHER ADVISORY/WARNING REPORT (KOREAN)	120/576		
0620/1820	SEA-SHORE WEATHER OBSERVATION REPORT (KOREAN)	120/576	0618	
0632/-----	LIGHTHOUSE WEATHER OBSERVATION REPORT (KOREAN)	120/576	0600	
0646/1846	WEATHER OBSERVATION REPORT FOR FISHERY (KOREAN)	120/576	06/18	
0700/1900	SATILLITE IMAGERY	120/576	0530/1730	
0712/-----	SST OBSERVATION CHART OF NEAR KOREAN PENINSULA AREA	120/576		
0740/1940	SURFACE ANALYSIS	120/576	06/18	
0800/2000	TYPHOON WARNING AND 12HR/24HR FORECASTS (1) (KOREAN)	120/576	06/18	
0821/2021	12HR SEA WAVE HT & WIND FORECAST OF NEAR KOREAN PENINSULA	120/576	00/12	
0834/2034	24HR SEA WAVE HT & WIND FORECAST OF NEAR KOREAN PENINSULA	120/576	00/12	
0847/2047	36HR SEA WAVE HT & WIND FORECAST OF NEAR KOREAN PENINSULA	120/576	00/12	
0900/2100	SEA WEATHER FORECAST OVER NEAR KOREAN PENINSULA (KOREAN)	120/576	0830/2030	
0920/2120	SEA-SHORE WEATHER OBSERVATION REPORT (KOREAN)	120/576	09/21	
0932/2132	LIGHTHOUSE WEATHER OBSERVATION REPORT (KOREAN)	120/576	09/21	
0946/2146	WEATHER OBSERVATION REPORT FOR FISHERY (KOREAN)	120/576	09/12	
1012/2212	WEATHER FORECAST FOR SHIP ROUTE (KOREAN)	120/576	0830/2030	
-----/2227	LIGHTHOUSE WEATHER OBSERVATION REPORT (3) (KOREAN)	120/576	2200	
1040/2240	SURFACE ANALYSIS	120/576	09/21	

- NOTES:
1. IN CASE OF TYPHOON.
 2. BROADCAST AT THE END OF THE MONTH.
 3. nOVEMBER TO APRIL.
 4. ALTERNATING BLACK AND WHITE SIGNALS WITH FREQUENCY OF 300 Hz WILL BE TRANSMITTED FOR 10 SECONDS PRIOR TO THE PHASING SIGNAL.
 5. PHASING SIGNALS WILL BE TRANSMITTED FOR 30 SECONDS PRIOR TO TRANSMISSION OF EACH CHART.
 6. STOP SIGNALS WILL BE TRANSMITTED FOR 15 SECONDS AFTER EACH TRANSMISSION.

(INFORMATION DATED 02/1999)

BANGKOK, THAILAND

CALL SIGNS	FREQUENCIES	TIMES	EMISSION	POWER
HSW64	7396.8 kHz		F3C	3 KW
HSW61	17520 kHz		F3C	10 KW

TIME	CONTENTS OF TRANSMISSION	RPM/IOC	VALID TIME	MAP AREA
0100/0700	FORECAST FOR SHIPPING (IN ENGLISH)	120/576	00/06	A
0120/.....	SURFACE PROG	120/576	1200	A
0140/.....	SURFACE ANALYSIS	120/576	1800	A
0300/0720	24 HR SURFACE PROG	120/576	12/12	A
0320/0740	48 HR SURFACE PROG	120/576	12/12	A
0340/0800	72 HR SURFACE PROG	120/576	12/12	A
...../0820	24 HR 850 MB WIND/TEMP PROG	120/576	1200	A

BANGKOK, THAILAND

TIME	CONTENTS OF TRANSMISSION	RPM/IOC	VALID TIME	MAP AREA
0400/1000	FORECAST FOR SHIPPING (IN ENGLISH)	120/576	03/09	A
0420/.....	24 HR 850 MB WIND/TEMP PROG	120/576	1200	A
0500/1020	SURFACE ANALYSIS	120/576	00/06	A
0500/.....	TEST CHART	120/576		
0520/.....	850 MB ANALYSIS	120/576	0000	A
0540/.....	700 MB ANALYSIS	120/576	0000	A
0600/.....	500 MB ANALYSIS	120/576	0000	A
...../1300	FORECAST FOR SHIPPING (IN ENGLISH)	120/576	1200	A
...../1700	FORECAST FOR SHIPPING (IN ENGLISH)	120/576	1700	A
...../1720	SURFACE ANALYSIS	120/576	1200	
...../2300	FORECAST FOR SHIPPING (IN ENGLISH)	120/576	1700	A
...../2320	SURFACE ANALYSIS	120/576	1800	A

MAP AREA: A - 1:20,000,000 50N 045E, 50N 160E, 30S 045E, 30S 160E
(INFORMATION DATED 11/97)

TASHKENT 1, UZBEKISTAN

CALL SIGNS	FREQUENCIES	TIMES	EMISSION	POWER
RBV70	3690 kHz	1300-0130	F3C	
RPJ78	4365 kHz	CONTINUOUS	F3C	
RBV78	5890 kHz	CONTINUOUS	F3C	
RBX72	7570 kHz	0130-1300	F3C	
RCH72	9340 kHz	CONTINUOUS	F3C	
RBV76	14982.5 kHz	CONTINUOUS	F3C	

TIME	CONTENTS OF TRANSMISSION	RPM/IOC	VALID TIME	MAP AREA
-----/1215	NEPHANALYSIS	90/576	-----	A*
0110/-----	RADAR DATA	90/576	0000	E
0130/1325	18HR SIGNIFICANT WEATHER PROG	60/576	06/18	D
0155/1355	SURFACE ANALYSIS	60/576	00/12	B
0255/1455	SURFACE ANALYSIS	60/576	00/12	A
0345/1540	700MB ANALYSIS	90/576	00/12	A
-----/1615	400MB ANALYSIS	90/576	1200	A
0420/-----	NEPHANALYSIS	90/576	-----	A
0450/-----	300MB ANALYSIS	120/576	0000	A
-----/1655	SURFACE ANALYSIS	60/576	1500	B
0515/-----	850MB ANALYSIS	90/576	0000	A
-----/1745	500/1000MB ANALYSIS	90/576	1200	A
0625/1850	36HR 500MB PROG	120/288	12/00	C
0633/-----	36HR 850MB/700MB/500MB VERTICAL MOTION PROGS	90/576	1200	C
0650/-----	RADAR DATA	90/576	0600	E
-----/1905	PRECIPITATION AND MAX TEMPS	60/576	1500	K
0720/-----	400MB ANALYSIS	90/576	0000	A
0755/1930	SURFACE ANALYSIS	60/576	06/18	B
-----/2020	SURFACE ANALYSIS	60/576	1800	A
0845/-----	50MB ANALYSIS	90/576	0600	A
-----/2105	36HR 850MB/700MB/500MB VERTICAL MOTION PROGS	90/576	0000	C
0930/2122	TROPOPAUSE ANALYSIS	90/576	00/12	A

TASHKENT 1, UZBEKISTAN

TIME	CONTENTS OF TRANSMISSION	RPM/IOC	VALID TIME	MAP AREA
-----/2200	RADAR DATA	90/576	2100	E
1005/-----	500/1000MB ANALYSIS	90/576	0000	A
1055/2255	SURFACE ANALYSIS	60/576	09/21	B
-----/2345	24HR 850MB/700MB/500MB VERTICAL MOTION PROGS	90/576	1200	C

NOTE: DESCRIPTIONS OF MAP AREAS ARE LISTED IN PROGRAM 2..

(INFORMATION DATED 09/1990)

TASHKENT 2, UZBEKISTAN

CALL SIGN	FREQUENCIES	TIMES	EMISSION	POWER
RBX70	3280 kHz	CONTINUOUS	F3C	
RBX71	5285 kHz	CONTINUOUS	F3C	
RIJ75	8083 kHz	1400-0200	F3C	
RCH73	9150 kHz	CONTINUOUS	F3C	
ROM5	13947 kHz	0200-1400	F3C	

TIME	CONTENTS OF TRANSMISSION	RPM/IOC	VALID TIME	MAP AREA
0030/-----	BROADCAST SCHEDULE	90/576		
0050/1250	RADAR DATA	90/576	00/12	E
0130/-----	18HR SIGNIFICANT WEATHER PROG	60/576	06/18	H
-----/1330	PREBARIC CHART	60/576	1800	H
0258/-----	48HR 500MB PROG	90/576	0000	C
0315/1515	300MB ANALYSIS	90/576	00/12	A
0350/1550	RADAR DATA	90/576	03/15	E
0410/1605	500MB ANALYSIS	90/576	00/12	A
-----/1640	850MB ANALYSIS	90/576	1200	A
0500/-----	SURFACE ANALYSIS	60/576	0300	B
0550/1720	200MB ANALYSIS	90/576	00/12	A
-----/1755	100MB ANALYSIS	90/576	1200	A
0625/-----	PRECIPITATION/TEMPERATURE EXTREMES	90/576	1200	A
0640/-----	400MB ANALYSIS	90/576	0000	A
-----/1905	RADAR DATA	90/576	1800	E
0715/-----	100MB ANALYSIS	90/576	0000	A
0750/1930	15HR 300MB/SIGNIFICANT WEATHER PROG	90/576	15/03	H
-----/2 015	MAX WIND ANALYSIS	90/576	1200	D*
0830/-----	500MB ANALYSIS	60/576	0600	A
0915/2105	MAX WIND ANALYSIS	90/576	00/18	A/D*
-----/2122	700MB ANALYSIS	90/576	1800	D*
-----/2139	500MB ANALYSIS	90/576	1800	D*
0950/-----	RADAR DATA	90/576	0900	E
-----/2155	400MB ANALYSIS	90/576	1800	D*
-----/2212	300MB ANALYSIS	90/576	1800	D*
1140/2320	12HR 300MB/SIGNIFICANT WEATHER PROGS	90/576	18/00	H

MAP AREAS:

A	- 1:15,000,000	45N 037W,	43N 125E,	16N 011E,	15N 078E
A*	- 1:15,000,000	57N 005W,	27N 123E,	14N 030E,	02N 088E
B	- 1:05,000,000	45N 030E,	49N 081E,	26N 040E,	28N 077E
C	- 1:15,000,000	53N 006W,	48N 095E,	25N 026E,	22N 072E
D	- 1:15,000,000	56N 021W,	58N 108E,	30N 016E,	31N 072E
D*	- 1:15,000,000	70N 008W,	47N 118E,	34N 029E,	24N 082E
H	- 1:15,000,000	56N 021E,	58N 108E,	30N 016E,	31N 072E
K	- 1:07,500,000	47N 038E,	49N 079E,	30N 046E,	31N 174E

(INFORMATION DATED 07/1997)

KYODO NEWS AGENCY, JAPAN/SINGAPORE

CALL SIGNS	FREQUENCIES	TIMES	EMISSION	POWER
JJC	4316 kHz	CONTINUOUS	F3C	5 KW
JJC	8467.5 kHz	CONTINUOUS	F3C	10 KW
JJC	12745.5 kHz	CONTINUOUS	F3C	15 KW
JJC	16971 kHz	CONTINUOUS	F3C	15 KW
JJC	17069.6 kHz	CONTINUOUS	F3C	15 KW
JJC	22542 kHz	CONTINUOUS	F3C	15 KW
9VF/252	16035 kHz	0740-1010, 1415-1815	F3C	10 KW
9VF/252	17430 kHz	0740-1010, 1415-1815	F3C	10 KW

TIME	CONTENTS OF TRANSMISSION	RPM/IOC	VALID TIME	MAP AREA
0145	Sports Ed 2(R), (Seasonal during Sumo or High School baseball series)	60/576		
0200	MON: NX for 1 week	120/576		
0200	TUE-SUN: NX (R), Epidemic Information(R)(SUN only), Ocean Information(N)(4th,14th, and 24th,3rd,13th,23rd if a MON)	120/576 60/576		
0245	Morning Ed(R), Sports Ed 1(R), NX(R)	60/576		
0430	WX Chart	120/576	0000	
0430	Ocean Information(n)(4th,14th, and 24th)	120/576		
0540	TUE&FRI: Satellite Fishery Information	60/576		
0540	SAT&SUN: Ocean Graphic Information	60/576		
0540	SUN&MON: Sea Surface Current Prog	60/576		
0610	TUE-SAT: English Ed (R)	120/576		
0635	MON-SAT: FAX DAYORI 4(N), (except 2nd & 4th MON and every WED and FRI)	60/576		
0650	SUN:WX Chart, Fishing Information (3 times per month)	60/576	0300	
0650	MON-SAT: WX Chart	60/576	0300	
0705	Background Stories(N), Life(N)(except MON)	60/576		
0745	SUN: Sunday Ed(N), FAX DAYORI 1,2,3 (N) Sumo match (begins 0930 SAT as well)	60/576 60/576		
0745	MON-SAT: Evening Ed(N), Kaiun-Suisan News(N) (Except SAT), Epidemic Information(N)(SAT only), FAX DAYORI 1(N), Sumo match (Seasonal)(N), FAX DAYORI 2(N)(except TUE&SAT)	60/576 60/576 60/576		
0745	NATIONAL HOLIDAYS: Morning Ed(R), Sports Ed 1 (R), FAX DAYORI 1(N), Sumo match (Seasonal)(N)FAX DAYORI 2(N)	60/576 60/576		
1100	NX (N), Sumo match (Seasonal)(R)	60/576		
1130	MON-FRI: English Ed (N)	60/576		
1335	Background Stories(R), Life(R)(except MON)	60/576		
1415	MON-FRI: Kaiun-Suisan News(R)	60/576		
1445	Sports Ed 2(N), (Seasonal during Sumo or High School baseball series)	60/576		
1500	Morning Ed(N), Sports Ed 1(N), NX(R)	60/576		
1645	MON: Sunday Ed(R)	60/576		
1645	TUE-SUN: Evening Ed(R)	60/576		
1810	TUE-SAT: English Ed (R)	60/576		
1930	MON: Evening Ed(R), NX(R), FAX DAYORI 2,1,3 (R)	60/576		
1930	TUE-SUN: Evening Ed(R), NX(R), FAX DAYORI 2,1,4 (no 4 on THU,SAT and TUE following 2nd & 4th MON Also no 2 on WED and SUN)(R)	60/576		
2030	DAY AFTER NATIONAL HOLIDAYS: NX(R), FAX DAYORI 2,1,4 (R)	60/576		
2215	MON and DAY AFTER NATIONAL HOLIDAYS: Morning Ed(R),Sports Ed 1,2(R),NX(R),FAX DAYORI 1-3(R)(3 Mon only)	60/576 60/576	2100	
2215	WX Chart TUE-SUN: Morning Ed(R), Sports Ed 1,2(R), NX(R), Kaiun-Suisan News(R) (Except SUN), Epidemic Info (SUN only) FAX DAYORI 1,2 (R)(no 2 on SUN and WED) WX Chart	60/576 60/576 60/576 60/576	2100	

NX: Navigational Warning, N: New, R: Repeat

Some of these transmissions may be encrypted

(INFORMATION DATED March 1, 1999 provided by Kyodo News April 2001)

SOUTH
AMERICA

MARAMBIO, ARGENTINA

CALL SIGN	FREQUENCIES	TIMES	EMISSION	POWER
LSB	2401 kHz		F3C	10 KW
LSB	4807 kHz		F3C	10 KW
LSB	9951 kHz		F3C	10 KW

TIME	CONTENTS OF TRANSMISSION	RPM/IOC	VALID TIME	MAP AREA
0025	SURFACE ANALYSIS	120/576	1800	SH
0325	SURFACE ANALYSIS	120/576	0000	SH
1225	SURFACE ANALYSIS	120/576	0600	SH
1525	SURFACE ANALYSIS	120/576	1200	SH

NOTE: ONLY INFORMATION AVAILABLE
INFORMATION DATED 09/1996

PUERTO BELGRANO ARGENTINA

CALL SIGN	FREQUENCIES	TIMES	EMISSION	POWER
LOR	5705 kHz		F3C	
	12672 kHz		F3C	

NO INFORMATION ABOUT THIS BROADCAST IS AVAILABLE OTHER THAN IT IS BEING TRANSMITTED BY THE ARGENTINE NAVY. THE CONTENTS OF THIS BROADCAST ARE IN SPANISH.

(INFORMATION DATED 07/1997)

RIO DE JANEIRO, BRAZIL

CALL SIGNS	FREQUENCIES	TIMES	EMISSION	POWER
PWZ-33	12660 kHz	0745/1745	F3C	1 KW
PWZ-33	17140 kHz	0745/1745	F3C	1 KW

TIME	CONTENTS OF TRANSMISSION	RPM/IOC	VALID TIME	MAP AREA
0745	TEST CHART	120/576		
0750	SEA SURFACE TEMPERATURE-CLIMAT AVERAGE DATA	120/576		A
0800	SURFACE ANALYSIS	120/576	0000	A
1745	TEST CHART	120/576		
1750	SEA SURFACE TEMPERATURE-CLIMAT AVERAGE DATA	120/576		A
1800	SURFACE ANALYSIS	120/576	1200	A

MAP AREA: A: 1:20,000,000 30N 085W, 30N 005E, 48S 085W, 48S 005E

INFORMATION DATED 02/1998
UPDATE 7/2000 – Frequencies reported as actually being 12665 kHz and 16978 kHz

NORTH
AMERICA

HALIFAX, NOVA SCOTIA, CANADA

CALL SIGN	FREQUENCIES	TIMES	EMISSION	POWER
CFH	122.5 KHz	CONTINUOUS	F3C	
	4271 KHz	CONTINUOUS	F3C	
	6496.4 KHz	CONTINUOUS	F3C	
	10536 KHz	CONTINUOUS	F3C	
	13510 KHz	CONTINUOUS	F3C	

TIME	CONTENTS OF TRANSMISSION	RPM/IOC	VALID TIME	MAP AREA
0001/-----	LABRADOR COAST ICE CHART (SEASONAL)	120/576	LATEST	
-----/1201	3-DAY PROG	120/576	1200	G
0101/-----	SATELLITE PHOTO INFRARED	120/576	0000	
-----/1222	4-DAY PROG	120/576	1200	G
-----/1301	5-DAY PROG	120/576	1200	G
0201/1401	12/00Z SIGNIFICANT WEATHER DEPICTION	120/576	12/00	A
0301/1501	500MB ANALYSIS	120/576	00/12	B
0322/1522	SURFACE ANALYSIS	120/576	00/12	F
-----/1601	850MB ANALYSIS	120/576	1200	B
0401/1622	36HR 500MB FORECAST	120/576	12/00	H
0501/1701	24HR SURFACE PROG	120/576	00/12	A
0522/-----	850MB FORECAST WIND/TEMP/HEIGHT	120/576	12&00	C
0601/1801	36HR SURFACE PROG	120/576	12/00	A
-----/1822	850MB FORECAST WIND/TEMP/HEIGHT	120/576	00&12	C
0701/1901	18/06Z SIGNIFICANT WEATHER DEPICTION	120/576	18/00	A
0801/2001	24/36HRSIGNIFICANT WAVE PROGNOSIS	120/576	0&12/0&12	A
0901/2101	SURFACE ANALYSIS	120/576	06/18	F
1001/-----	SST: NOVA SCOTIA - MON NEWFOUNDLAND - TUE/FRI	120/576	LATEST	E/D
1001/-----	OFA: NOVA SCOTIA - WED/SAT NEWFOUNDLAND - SUN/THU	120/576	LATEST	E/D
-----/2201	SST: NOVA SCOTIA - TUE/THU/FRI NEWFOUNDLAND - WED/SAT	120/576	LATEST	E/D
-----/2201	OFA: NOVA SCOTIA - SUN NEWFOUNDLAND - MON	120/576	LATEST	E/D
1022/-----	SATELLITE PHOTO INFRARED	120/576	0900	
-----/2222	NEWFOUNDLAND ICE CHART	120/576	LATEST	
1101/-----	CHH BROADCAST SCHEDULE/TEST CHART	120/576		
-----/2301	GULF OF ST LAWRENCE ICE CHART (SEASONAL)	120/576	LATEST	

NOTES: 1. ICE CHARTS FOR THE GULF OF ST. LAWRENCE, LABRADOR, HUDSON STRAIT AND EASTERN ARCTIC ARE PREPARED BY THE CANADIAN ICE SERVICE (OTTAWA) AND ARE BROADCAST ACCORDING TO SEASON. ONE ICE CHART IS BROADCAST WITHIN THE ALLOTTED TIME FROM HALIFAX (CFH), HOWEVER, ONE ICE CHART MAY BE BROADCAST WITHIN THE ALLOTTED TIME FROM IQALUIT, FROBISHER BAY (VFF) AND RESOLUTE (VFR).

2. BROADCAST TIME MAY ALSO BE USED TO REPEAT OTHER CHARTS OR SPECIAL CHARTS AS REQUIRED.

3. THE CANADIAN FORCES FLEET METEOROLOGICAL AND OCEANOGRAPHIC CENTRE (METOC) BROADCAST ATLANTIC BROADCASTS TEXT AND CHART INFORMATION. THE BROADCAST IS MAINTAINED TO SERVE AND FULFIL THE REQUIREMENTS OF THE CANADIAN NAVY. CONSEQUENTLY THE BROADCAST IS SUBJECT TO SHORT NOTICE CHANGE WITHOUT NOTIFICATION. THE AREA IN WHICH THE BROADCAST IS INTENDED TO BE RECEIVED IS NORTH ATLANTIC WATERS NORTH OF 35°N AND WEST OF 35°W. THE BROADCAST SHARES IT TIME BETWEEN RADIO-FACSIMILE AND RADIOTELETYPE. THE FACSIMILE PORTION CONSISTS OF EITHER ONE OR TWO CHARTS BEING BROADCAST AT THE BEGINNING OF EACH HOUR. THE REMAINING TIME IS DEDICATED TO RADIOTELETYPE.

MAP AREAS: A. 49N90W, 64N16W, 28N67W, 5N27W	E. 46N77W, 48N46W, 32N74W, 32N51W
B. 76N16W, 30N20W, 23N110W, 08N69W	F. 59N110W, 59N10W, 25N82W, 25N40W
C. 48N85W, 65N15W, 28N62W, 34N23W	G. 49N21W, 27N40W, 27N80W, 49N94W
D. 60N68W, 53N30W, 42N66W, 38N40W	H. 30N107W, 15N67W, 34N24W, 79N60W

(INFORMATION DATED 11/2001)

IQALUIT, N.W.T., CANADA

CALL SIGN	FREQUENCIES	TIMES	EMISSION	POWER	
VFF	3251.1 kHz USB		J3C	5 KW	
VFF	7708.1 kHz USB		J3C	5 KW	
TIME	CONTENTS OF TRANSMISSION		RPM/IOC	VALID TIME	MAP AREA
0500	ICE ANALYSIS (AREAS 1,2,3,4,5,6,7)		120/576		
1000	SURFACE ANALYSIS & 18HR PROG & 48HR PROG		120/576	06/06/00	
2100	SURFACE ANALYSIS & 18HR PROG		120/576	18/12	
2135	ICE ANALYSIS (AREAS 1,2,3,4,5,6,7)		120/576		

MAP AREA:	1.	2.	3.	4.	5.	6.	7.
	HUDSON BAY (SOUTH)	HUDSON BAY (NORTH)	HUDSON STRAIT	FOX E BASIN	LABRADOR COAST	DAVIS STRAIT	BAFFIN BAY

NOTE: THE AREAS INCLUDED IN THE BROADCASTS VARY WITH ICE CONDITIONS AND MARINE ACTIVITY. ALL CHARTS AVAILABLE CAN BE TRANSMITTED ON REQUEST.

(INFORMATION DATED 04/2001) http://www.ccg-gcc.gc.ca/cen-arc/mcts-sctm/broadcast/iqaluit_e.htm

RESOLUTE, N.W.T., CANADA

CALL SIGN	FREQUENCIES	TIMES	EMISSION	POWER	
VFR	3251.1 kHz	1 JUL-15 OCT	J3C	5 KW	
VFR	7708.1 kHz	1 JUL-15 OCT	J3C	5 KW	
TIME	CONTENTS OF TRANSMISSION		RPM/IOC	VALID TIME	MAP AREA
0010	ICE ANALYSIS (AREAS 7, 8, 9, 10, 11)		120/576		
0700	ICE ANALYSIS (AREAS 7, 8, 9, 10, 11)		120/576		
1100	SURFACE ANALYSIS & 18HR PROG & 48HR PROG		120/576	06/06/00	
2330	SURFACE ANALYSIS & 18HR PROG		120/576	18/12	

MAP AREAS:	7.	8.	9.
	BAFFIN BAY	APPROACHES TO RESOLUTE	EUREKA SOUND
	PARRY CHANNEL	QYENN MAUDE/PRINCE REGENT	

(INFORMATION DATED 01/2001) http://www.ccg-gcc.gc.ca/cen-arc/mcts-sctm/broadcast/iqaluit_e.htm

KODIAK, ALASKA, U.S.A.

CALL SIGN	FREQUENCIES	TIMES	EMISSION	POWER
NOJ	2054 kHz	1000-1049, 1800-1838	F3C	
	4298 kHz	CONTINUOUS	F3C	
	8459 kHz	CONTINUOUS	F3C	
	12412.5 kHz	0400-0450, 2200-2249	F3C	

TIME	CONTENTS OF TRANSMISSION	RPM/IOC	VALID TIME	MAP AREA
0400/1800	TEST PATTERN	120/576		
0404/1804	SURFACE ANALYSIS	120/576	00/12	
0425/1825	COASTAL MARINE FORECAST TABLES	120/576	LATEST	
-----/1838	FAX SCHEDULE AND SYMBOLS	120/576		
0438/-----	48HR SURFACE FORECAST	120/576	1200	
0450/-----	96HR SURFACE FORECAST	120/576	1200	
1000/2200	TEST PATTERN	120/576		
1004/2204	SURFACE ANALYSIS	120/576	06/18	
1025/-----	48HR SURFACE FORECAST	120/576	0000	
1037/-----	5-DAY SEA ICE FORECAST	120/576	LATEST	
1049/-----	SEA SURFACE TEMPERATURE ANALYSIS	120/576	LATEST	
-----/2225	36HR SURFACE FORECAST	120/576	1200	
-----/2237	48HR WIND/WAVE FORECAST	120/576	1200	
-----/2249	SEA ICE ANALYSIS	120/576	LATEST	

- NOTES:
1. BROADCAST MAY BE PERFORMED CONTINUOUSLY ON FOUR LISTED FREQUENCIES WHEN RESOURCES ARE AVAILABLE
 2. THIS BROADCAST ORIGINATES FROM THE NATIONAL WEATHER SERVICE. COMMENTS AND SUGGESTIONS SHOULD BE DIRECTED TO:

METEOROLOGIST IN CHARGE
 NATIONAL WEATHER SERVICE FORECAST OFFICE
 6930 SAND LAKE ROAD
 ANCHORAGE, AK 99502-1845
 PH: (907) 266-5111/FAX: (907) 266-5188
 EMAIL: nwsfoanc@alaska.net

(INFORMATION DATED 05/24/2001)

<http://weather.noaa.gov/fax/alaska.shtml>

PT. REYES, CALIFORNIA, U.S.A.

CALL SIGN	FREQUENCIES	TIMES	EMISSION	POWER
NMC	4346 kHz	NIGHT	F3C	10 KW
	8682 kHz	CONTINUOUS	F3C	10 KW
	12730 kHz	CONTINUOUS	F3C	10 KW
	17151.2 kHz	CONTINUOUS	F3C	10 KW
	22527 kHz	DAY	F3C	10 KW

TIME	CONTENTS OF TRANSMISSION	RPM/IOC	VALID TIME	MAP AREA
0230/1430	TEST PATTERN	120/576		
0235/-----	TROPICAL 0/24 HR WIND/WAVE FORECAST	120/576	00&00	4
0248/1438	GOES IR SATELLITE IMAGE	120/576	LATEST	7/5
0259/1449	GOES IR SATELLITE IMAGE	120/576	LATEST	5/6
0310/1500	SEA STATE ANALYSIS	120/576	00/12	1/8
-----/1510	TROPICAL 0/24HR WIND/WAVE FORECAST (2 CHARTS)	120/576	12&12	4
0320/1520	SURFACE ANALYSIS (PART 1 NE PACIFIC)	120/576	00/12	2
0333/1533	SURFACE ANALYSIS (PART 2 NW PACIFIC)	120/576	00/12	3
0345/1545	500MB ANALYSIS	120/576	00/12	1
0355/1555	TROPICAL CYCLONE DANGER AREA (see note 1)	120/576	03/15	10
0408/-----	TROPICAL 48HR WIND/WAVE FORECAST	120/576	0000	4
0750/-----	TEST PATTERN	120/576		
0755/1608	TROPICAL SURFACE ANALYSIS	120/576	00/12	4
-----/1930	TEST PATTERN	120/576		
0808/1933	24HR SURFACE FORECAST	120/576	00/12	8
0818/1943	24HR WIND/WAVE FORECAST	120/576	00/12	8
0828/1953	48HR 500MB FORECAST	120/576	00/12	1
0838/2003	48HR SURFACE FORECAST	120/576	00/12	1
0848/2013	48HR WIND/WAVE FORECAST	120/576	00/12	1
0858/2023	48HR WAVE PERIOD/SWELL DIRECTION FORECAST	120/576	00/12	1
-----/2033	96HR 500MB FORECAST	120/576	0000	1
-----/2043	96HR SURFACE FORECAST	120/576	0000	1
-----/2053	96HR WIND/WAVE FORECAST	120/576	0000	1
-----/2103	96HR WAVE PERIOD FORECAST	120/576	0000	1
0908/2113	GOES IR SATELLITE IMAGE	120/576	06/18	7/5
0919/2124	SURFACE ANALYSIS (PART 1 NE PACIFIC)	120/576	06/18	2
0932/2137	SURFACE ANALYSIS (PART 2 NW PACIFIC)	120/576	06/18	3
0944/-----	GOES IR SATELLITE IMAGE	120/576	0600	5
-----/2149	TROPICAL 0/24HR WIND/WAVE FORECAST (2 CHARTS)	120/576	18&18	4
0955/-----	TROPICAL 0/24HR WIND/WAVE FORECAST (2 CHARTS)	120/576	06&06	4
1008/-----	TROPICAL 48 HR WAVE PERIOD/SWELL DIRECTION	120/576	1200	4
-----/2159	TROPICAL 48/72 HR WAVE PERIOD/SWELL DIRECTION	120/576	00&00	4
-----/2212	TROPICAL SURFACE ANALYSIS	120/576	1800	4
1100/2300	TEST PATTERN	120/576		
-----/2304	SST ANALYSIS	120/576	LATEST	9
-----/2314	SST ANALYSIS	120/576	LATEST	6
1104/2324	BROADCAST SCHEDULE (PART 1)	120/576		
1115/2335	BROADCAST SCHEDULE (PART 2)	120/576		
1126/-----	REQUEST FOR COMMENTS	120/576		
1137/-----	PRODUCT NOTICE BULLETIN	120/576		
1148/-----	TROPICAL SURFACE ANALYSIS	120/576	0600	4
1158/-----	TROPICAL 48/72HR WIND/WAVE FORECAST	120/576	12&12	4

MAP AREAS:	1.	20N - 70N, 115W - 135E	2.	20N - 70N, 115W - 175W
	3.	20N - 70N, 175W - 135E	4.	20S - 30N, EAST OF 145W
	5.	05N - 60N, WEST OF 100W	6.	23N - 42N, EAST OF 136W
	7.	05N - 55N, EAST OF 130W	8.	25N - 60N, EAST OF 155W
	9.	40N - 53N, EAST OF 136W	10.	0N - 40N, 80W - 180W

NOTES: 1. REPLACED BY HIGH WIND/WAVE WARNING WHEN NOT IN HURRICANE SEASON
 2. CARRIER FREQUENCY IS 1.9 KHZ BELOW ASSIGNED FREQUENCY
 3. COMMENTS AND SUGGESTIONS CONCERNING THIS BROADCAST SHOULD BE DIRECTED TO:

NATIONAL WEATHER SERVICE/NOAA
 NATIONAL CENTER FOR ENVIRONMENTAL PREDICTION
 MARINE FORECAST BRANCH W/NMC31
 5200 AUTH ROAD
 CAMP SPRINGS, MD 20746-4304
 PHONE: (301) 763-8000 X7401/FAX: (301) 763-8085
 EMAIL: David.Feit@noaa.gov

(INFORMATION DATED 10/24/2001)

<http://weather.noaa.gov/fax/ptreyes.shtml>
 IV-4

(12/2001)

NEW ORLEANS, LOUISIANA, U.S.A.

CALL SIGN	FREQUENCIES	TIMES	EMISSION	POWER
NMG	4317.9 kHz	CONTINUOUS	F3C	10 KW
	8503.9 kHz	CONTINUOUS	F3C	10 KW
	12789.9 kHz	CONTINUOUS	F3C	10 KW

TIME	CONTENTS OF TRANSMISSION	RPM/IOC	VALID TIME	MAP AREA
0000/1200	TEST PATTERN	120/576		
0005/1205	U.S. / TROPICAL SURFACE ANALYSIS (W HALF)	120/576	18/06	1
0020/1220	TROPICAL SURFACE ANALYSIS (E HALF)	120/576	18/06	2
0035/1235	24 HR WIND/WAVE FORECAST	120/576	00/12	3
0050/1250	48 HR WIND/WAVE FORECAST	120/576	00/12	3
0105/1305	72 HR WIND/WAVE FORECAST	120/576	00/12	3
0120/1320	TROPICAL CYCLONE DANGER AREA (see note 1)	120/576	21/09	6
0140/-----	72 HR WAVE PERIOD/SWELL DIRECTION	120/576	0000	3
-----/1340	PRODUCT NOTICE BULLETIN	120/576		
0200/1400	GOES IR TROPICAL SATELLITE IMAGE	120/576	2345/1145	4
0215/1415	SEA STATE ANALYSIS	120/576	00/12	3
0230/1430	HIGH SEAS FORECAST (IN ENGLISH)	120/576	22/10	5
0600/1800	TEST PATTERN	120/576		
0605/1805	U.S. / TROPICAL SURFACE ANALYSIS (W HALF)	120/576	00/12	1
0620/1820	TROPICAL SURFACE ANALYSIS (E HALF)	120/576	00/12	2
0635/1835	24 HR WIND/WAVE FORECAST	120/576	06/18	3
0650/1850	REBROADCAST OF 0050/1250	120/576	00/12	3
0705/1905	REBROADCAST OF 0105/1305	120/576	00/12	3
0720/1920	TROPICAL CYCLONE DANGER AREA* or HIGH WIND/WAVES	120/576	03/15	6
0740/1940	48 HR WAVE PERIOD/SWELL DIRECTION	120/576	06/18	3
0755/1955	GOES IR TROPICAL SATELLITE IMAGE	120/576	0545/1745	4
0810/2010	SEA STATE ANALYSIS	120/576	06/18	3
0825/2025	REQUEST FOR COMMENTS/BROADCAST SCHEDULE	120/576		
0845/2045	HIGH SEAS FORECAST (IN ENGLISH)	120/576	04/16	5

NOTES: 1. REPLACED BY HIGH WIND/WAVE WARNING WHEN NOT IN HURRICANE SEASON
 DEC 01 - MAY 31. VALID TIMES 04Z, 10Z, 16Z AND 22Z. 05N - 60N, 0W - 100W
 2. CARRIER FREQUENCY IS 1.9 KHZ BELOW ASSIGNED FREQUENCY
 3. THIS BROADCAST ORIGINATES FROM THE TROPICAL PREDICTION CENTER (FORMERLY THE NATIONAL HURRICANE CENTER) OF THE NATIONAL WEATHER SERVICE.
 COMMENTS AND SUGGESTIONS SHOULD BE DIRECTED TO:

TROPICAL PREDICTION CENTER
 ATTN: CHIEF OF TAFB
 11691 SOUTHWEST 17TH STREET
 MIAMI, FL 33165-2149
 PHONE: (305) 229-4430/FAX: (305) 553-1264
 EMAIL: marine@nhc.noaa.gov

- MAP AREAS:
1. 05S-50N, 65W-125W
 2. 05S-40N, 00W-070W
 3. 05N-31N, 35W-100W
 4. 12S-44N, 28W-112W
 5. 07N-31N, 35W-098W (AREA COVERED BY TEXT FORECAST)
 6. 05N-40N, 35W-100W

(INFORMATION DATED 11/26/2001)
 (PLANNED EFFECTIVE DATE 1800z 04 DEC 01)

<http://weather.noaa.gov/fax/gulf.shtml>

BOSTON, MASSACHUSETTS, U.S.A.

CALL SIGN	FREQUENCIES	TIMES	EMISSION	POWER
NMF	4235 kHz	0230z-1015z	F3C	10 KW
	6340.5 kHz	CONTINUOUS	F3C	10 KW
	9110 kHz	CONTINUOUS	F3C	10 KW
	12750 kHz	1400z-2215z	F3C	10 KW

TIME	CONTENTS OF TRANSMISSION	RPM/IOC	VALID TIME	MAP AREA
0230/1400	TEST PATTERN	120/576		
-----/1405	BROADCAST SCHEDULE (PART 1)	120/576		
-----/1420	BROADCAST SCHEDULE (PART 2)	120/576		
-----/1433	REQUEST FOR COMMENTS	120/576		
-----/1443	PRODUCT NOTICE BULLETIN	120/576		
0233/1453	PRELIMINARY SURFACE ANALYSIS	120/576	00/12	1
0243/-----	BROADCAST SCHEDULE (PART 1)	120/576		
0254/-----	BROADCAST SCHEDULE (PART 2)	120/576		
0305/-----	REQUEST FOR COMMENTS	120/576		
-----/1503	GOES IR SATELLITE IMAGE	120/576	1200	5
0315/1515	SEA STATE ANALYSIS	120/576	00/12	1
0325/1525	SURFACE ANALYSIS (PART 1 NE ATLANTIC)	120/576	00/12	2
0338/1538	SURFACE ANALYSIS (PART 2 NW ATLANTIC)	120/576	00/12	3
0351/-----	GOES IR SATELLITE IMAGE	120/576	0000	5
-----/1600	ICE CHARTS (FROM INTERNATIONAL ICE PATROL)	120/576	LATEST	
-----/1720	TEST PATTERN	120/576		
0402/1723	SURFACE ANALYSIS (PART 1) (REBROADCAST OF 0325/1525)	120/576	00/12	2
0415/1736	SURFACE ANALYSIS (PART 2) (REBROADCAST OF 0338/1538)	120/576	00/12	3
0428/1749	500MB ANALYSIS	120/576	00/12	4
-----/1759	SEA STATE ANALYSIS	120/576	1200	4
-----/1810	ICE CHARTS (FROM INTERNATIONAL ICE PATROL)	120/576	LATEST	
0745/1900	TEST PATTERN	120/576		
0755/-----	PRELIMINARY SURFACE ANALYSIS	120/576	0600	1
0805/1905	24HR SURFACE FORECAST	120/576	00/12	1
0815/1915	24HR WIND/WAVE FORECAST	120/576	00/12	1
0825/1925	24HR 500MB FORECAST	120/576	00/12	1
0835/1935	36HR 500MB FORECAST	120/576	12/00	4
0845/1945	48HR 500MB FORECAST	120/576	00/12	4
0855/1955	48HR SURFACE FORECAST	120/576	00/12	4
0905/2005	48HR WIND/WAVE FORECAST	120/576	00/12	4
0915/2015	48HR WAVE PERIOD FORECAST	120/576	00/12	4
-----/2025	PRELIMINARY SURFACE ANALYSIS	120/576	1800	1
-----/2035	96HR 500MB FORECAST	120/576	0000	4
-----/2045	96HR SURFACE FORECAST	120/576	0000	4
-----/2055	96HR WIND/WAVE FORECAST	120/576	0000	4
-----/2105	96HR WAVE PERIOD FORECAST	120/576	0000	4
-----/2115	96HR SURFACE FORECAST (REBROADCAST OF 2045)	120/576	0000	4
0925/2125	SURFACE ANALYSIS (PART 1 NE ATLANTIC)	120/576	06/18	2
0938/2138	SURFACE ANALYSIS (PART 2 NW ATLANTIC)	120/576	06/18	3
0951/2151	GOES IR SATELLITE IMAGE	120/576	06/18	6
1002/2202	SURFACE ANALYSIS (PART 1) (REBROADCAST OF 0925/2125)	120/576	06/18	2
1015/2215	SURFACE ANALYSIS (PART 2) (REBROADCAST OF 0938/2138)	120/576	06/18	3

MAP AREAS	
1.	28N-52N, 45W-85W
2.	15N-65N, 10E-45W
3.	15N-65N, 40W-95W
4.	15N-65N, 10E-95W
5.	20N-55N, 55W-95W
6.	EQ-60N, 40W-130W

- NOTES: 1. CARRIER FREQUENCY IS 1.9 Khz BELOW THE ASSIGNED FREQUENCY.
2. COMMENTS AND SUGGESTIONS SHOULD BE DIRECTED TO:

NATIONAL WEATHER SERVICE/NOAA
NATIONAL CENTER FOR ENVIRONMENTAL PREDICTION
MARINE FORECAST BRANCH W/NMC31
5200 AUTH ROAD
CAMP SPRINGS, MD 20746-4304
PHONE: (301) 763-8000 X7401/FAX: (301) 763-8085
EMAIL: David.Feit@noaa.gov

(INFORMATION DATED 10/12/2001)

<http://weather.noaa.gov/fax/marsh.shtml>

INUVIK, CANADA

CALL SIGN	FREQUENCIES	TIMES	EMISSION	POWER	
VFA	8457.8 kHz		J3C	1 KW	
TIME	CONTENTS OF TRANSMISSION		RPM/IOC	VALID TIME	MAP AREA
0200	AVIATION PROGNOSIS ICE ANALYSIS AMUNDSEM GULF TO ST ROCH BASIN ICE ANALYSIS BEAUFORT SEA/ALASKAN COAST		120/576	1200	
1630	SURFACE ANALYSIS ICE ANALYSIS AMUNDSEM GULF TO ST ROCH BASIN ICE ANALYSIS BEAUFORT SEA/ALASKAN COAST		120/576	1200	

(INFORMATION DATED 01/2001)

http://www.ccg-gcc.gc.ca/cen-arc/mcts-sctm/broadcast/inuvik_e.htm

PACIFIC
OCEAN
BASIN

DARWIN, AUSTRALIA

CALL SIGN	FREQUENCIES	TIMES	EMISSION	POWER
AXI	7535 kHz	1100-2100	F3C	10 KW
AXI	15615 kHz	2100-1100	F3C	10 KW

CANBERRA, AUSTRALIA

CALL SIGNS	FREQUENCIES	TIMES	EMISSION	POWER
AXM	2628 kHz	CONTINUOUS	F3C	10 KW
AXM	5100 kHz	CONTINUOUS	F3C	10 KW
AXM	11030 kHz	CONTINUOUS	F3C	10 KW
AXM	13920 kHz	CONTINUOUS	F3C	10 KW
AXM	20469 kHz	CONTINUOUS	F3C	10 KW

TIME	CONTENTS OF TRANSMISSION	RPM/IOC	VALID TIME	MAP AREA
-----/1200	36HR SURFACE PROG (MSL)	120/576	1200	AUST
0015/1215	BROADCAST SCHEDULE (2 PARTS)	120/576		
0045/-----	INFORMATION NOTICE	120/576		
-----/1245	36HR INDIAN OCEAN SURFACE PROG (MSL)	120/576	1200	IO
0100/-----	IPS RECOMMENDED FREQUENCIES FOR AXM	120/576		
-----/1300	18HR AUSTRALIAN REGIONAL SIGNIFICANT WEATHER PROG	120/576	0600	RSW
-----/1315	48HR PACIFIC OCEAN COMBINED WAVES PROG	120/576	0000	SWP
0130/-----	IPS RECOMMENDED FREQUENCIES FOR AXI	120/576		
-----/1330	48HR INDIAN OCEAN COMBINED WAVES PROG	120/576	0000	IO
-----/1345	SOUTH PACIFIC SEA SURFACE TEMPS (WEEKLY)	120/576	LATEST	SWP
0200/-----	24HR SURFACE PROG (MSL)	120/576	0000	AUST
-----/1400	INDIAN OCEAN SEA SURFACE TEMPS (WEEKLY)	120/576	LATEST	IO
0215/-----	18HR AUSTRALIA REGION SIGNIFICANT WEATHER PROG	120/576	1800	RSW
0230/-----	CURRENT WARNINGS SUMMARY	120/576	LATEST	H
0245/1430	SURFACE ANALYSIS (MSL)	120/576	00/12	AUST
-----/1445	CURRENT WARNINGS SUMMARY	120/576	LATEST	H
0300/1500	500MB ANALYSIS	120/576	00/12	AUST
-----/1515	36HR SURFACE PROG (MSL)	120/576	1200	AUST
0330/1530	18HR DARWIN TROPICS SIGNIFICANT WEATHER PROG	120/576	18/06	D
0400/1600	24HR 500MB PROG	120/576	00/12	AUST
0430/-----	S.E. AUSTRALIA SEA SURFACE ISOTHERMS (WEEKLY)	120/576	LATEST	SEAUST
0445/-----	S.E. AUSTRALIA 250 METER ISOTHERMS (WEEKLY)	120/576	LATEST	SEAUST
0500/-----	S.W. AUSTRALIA SEA SURFACE ISOTHERMS (WEEKLY)	120/576	LATEST	SWAUST
0600/1800	GRADIENT LEVEL WIND ANAL PART A	120/576	00/12	A
0623/1823	GRADIENT LEVEL WIND ANAL PART B	120/576	00/12	B
0645/-----	SURFACE ANALYSIS (MSL)	120/576	0000	C
0715/1900	18HR AUSTRALIAN REGION SIGNIFICANT WEATHER PROG	120/576	00/12	RSW
0730/1915	INDIAN OCEAN SURFACE ANALYSIS (MSL)	120/576	00/12	IO
0745/1930	24HR WIND WAVES HT (M) PROG	120/576	00/12	AUST
0800/1945	24HR SWELL WAVES HT (M) PROG	120/576	00/12	AUST
-----/2000	SOUTH PACIFIC SURFACE ANALYSIS (MSL)	120/576	1200	SWP
0815/-----	CURRENT WARNINGS SUMMARY	120/576	LATEST	H
-----/2015	SURFACE ANALYSIS (MSL)	120/576	1800	AUST
0830/-----	SOUTHWEST PACIFIC SURFACE ANALYSIS (MSL)	120/576	0000	SWP
0845/-----	SURFACE ANALYSIS (MSL)	120/576	0600	AUST
-----/2045	CURRENT WARNINGS SUMMARY	120/576	LATEST	
0903/2100	250MB STREAMLINE ANALYSIS	120/576	00/12	C
0923/2120	500MB STREAMLINE ANALYSIS	120/576	00/12	C
0941/2140	700MB STREAMLINE ANALYSIS	120/576	00/12	C
1000/2200	18HR DARWIN TROPICS SIGNIFICANT WEATHER PROG	120/576	00/12	D
1030/2230	48HR SOUTHERN HEMISPHERE 500MB PROG	120/576	00/12	SH
1045/2245	48HR SOUTHERN HEMISPHERE SURFACE PROG (MSL)	120/576	00/12	SH
1115/2303	SOUTHERN HEMISPHERE 500MB ANALYSIS	120/576	00/12	SH
1130/-----	SEA SURFACE TEMP ANALYSIS (WEEKLY)	120/576	LATEST	E
-----/2330	36HR SURFACE PROG (MSL)	120/576	0000	AUST
-----/2345	48HR INDIAN OCEAN SURFACE PROG (MSL)	120/576	1200	IO

DARWIN & CANBERRA, AUSTRALIA

- NOTES: 1. NORMAL RECEPTION AREA IS 25N -25S, 75E -180 FROM DARWIN, AND SOUTHWARDS OF 10N, BETWEEN 70E & 150W FROM MELBOURNE.
 2. SCANNING IS NOW COMPUTER GENERATED.
 3. TO ENHANCE THE READABILITY OF THE BROADCAST SCHEDULE, ISSUED TWICE DAILY AT 0015 AND 1215 UTC., THE SCHEDULE IS NOW BROADCAST IN TWO PARTS. PRODUCTS ISSUED BETWEEN 0000 AND 1200 UTC ARE IN PART 1 AND PRODUCTS ISSUED BETWEEN 1215 AND 2345 UTC ARE ON PART 2. PART 2 IS BROADCAST IMMEDIATELY FOLLOWING THE END OF PART 1.
 4. ALL WEEKLY OCEANOGRAPHIC PRODUCTS, SUCH AS SEA SURFACE TEMPERATURE CHARTS, WHICH WERE BROADCAST ONLY ONE DAY A WEEK, ARE NOW BROADCAST EVERY DAY. HOWEVER, NOTE THE CHARTS ARE ONLY UPDATED ONCE A WEEK, BUT BROADCAST EVERY DAY UNTIL A NEW CHART IS AVAILABLE TO REPLACE THE OLD CHART.
 5. FOR FURTHER INFORMATION CONTACT:

SYSTEM HELP DESK
 PH: (613) 9662 2182
 FAX: (613) 9662 1223
 EMAIL: opsgen@bom.gov.au

MAP AREAS: A: 30N - 35S, 120E - 180
 B: 30N - 35S, 070E - 130E
 C: 30N - 35S, 070E - 180
 D: 43S 110E, 34S 155E, 34N 142E, 29N 096E
 E: 23N - 23S, 100E - 170E
 H: 25N - 25S, 080E - 180
 AUST: LAMBERT 10S 090E, 50S 080E, 10S 170E, 50S 180
 SEAUST- MERCATOR 31S - 40S, 148E - 156E
 SWAUST MERCATOR 25S - 37S, 110E - 120E
 RSW - MERCATOR 0S - 50S, 100E - 180
 IO - POLAR 10S - 90S, EQ - 090E - 180
 SWP - POLAR 20S - 90S, 150E - 180 - 90W
 SH - POLAR 10S - 90S, ALL LONGITUDES

(INFORMATION DATED 08/2001)

http://www.bom.gov.au/nmoc/rad_sch/

WELLINGTON, NEW ZEALAND

CALL SIGN	FREQUENCIES	TIMES	EMISSION	POWER
ZKLF	5807 kHz	CONTINUOUS	F3C	5 KW
	9459 kHz	CONTINUOUS	F3C	5 KW
	13550.5 kHz	CONTINUOUS	F3C	5 KW
	16340.1 kHz	CONTINUOUS	F3C	5 KW

TIME	CONTENTS OF TRANSMISSION	RPM/IOC	VALID TIME	MAP AREA
0300/1500	TASMAN SEA SURFACE ANALYSIS (MSL)	120/576	00/12	TNZ
0315/1515	SOUTHWEST PACIFIC SURFACE ANALYSIS (MSL)	120/576	00/12	SWP
-----/1530	SOUTHWEST PACIFIC 30HR SURFACE PROG (MSL)	120/576	1200	SWP
0330/1545	SOUTHWEST PACIFIC 48HR SURFACE PROG (MSL)	120/576	00/12	SWP
0345/1600	SOUTHWEST PACIFIC 72HR SURFACE PROG (MSL)	120/576	00/12	SWP
0430/1630	BROADCAST SCHEDULE	120/576		
0900/2030	TASMAN SEA SURFACE ANALYSIS (MSL)	120/576	06/18	TNZ
0915/2045	SOUTHWEST PACIFIC SURFACE ANALYSIS (MSL)	120/576	06/18	SWP
-----/2345	SOUTHWEST PACIFIC 30HR SURFACE PROG (MSL)	120/576	0000	SWP

MAP AREAS: TNZ - TASMAN SEA - NEW ZEALAND
 SWP - SOUTHWEST PACIFIC

(INFORMATION DATED July 24, 01)

http://www.metservice.co.nz/services/radiofax_schedule.pdf

HONOLULU, HAWAII, U.S.A.

CALL SIGN	FREQUENCIES	TIMES	EMISSION	POWER
KVM70	9982.5 kHz	1150-1522	F3C	5 KW
	11090 kHz	EXCEPT 2350-0336	F3C	5 KW
	16135 kHz	EXCEPT 1150-1522	F3C	5 KW
	23331.5 kHz	2350-0336	F3C	5 KW

TIME	CONTENTS OF TRANSMISSION	RPM/IOC	VALID TIME	MAP AREA
2350/1150	TEST-ID-SCHEDULE-GENERAL NOTICE	120/576		
0005/1205	PACIFIC SURFACE ANALYSIS	120/576	18/06	B
0030/1230	GOES IR SATELLITE IMAGE	120/576	LATEST	EP
0045/1245	GOES IR SATELLITE IMAGE	120/576	LATEST	SP
0103/1304	TROPICAL SURFACE ANALYSIS	120/576	18/06	H
0128/1328	48HR SURFACE FORECAST	120/576	18/06	C
0148/1350	48HR 500MB/VORTICITY FORECAST	120/576	12/00	F
0209/-----	24HR WIND/STREAM FORECAST	120/576	0000	D
0234/-----	48HR WIND/STREAM FORECAST	120/576	0000	D
-----/1412	24HR WIND/WAVE FORECAST	120/576	0000	E
-----/1428	48HR WIND/WAVE FORECAST	120/576	0000	E
0258/1444	0/24HR WIND/WAVE FORECAST (2 CHARTS)	120/576	00&00/12&12	G
0317/1503	48HR, 48/72HR(2) WIND/WAVE FORECAST	120/576	00/12&12	G
0336/1522	48/72HR(2), 48HR, WAVE PERIOD/SWELL DIRECTION FORECAST	120/576	00&00/12	G
0355/1541	TROPICAL STREAMLINE ANALYSIS	120/576	18/06	K
0418/1604	NORTH PACIFIC SURFACE PRESSURE ANALYSIS	120/576	18/06	J
0533/1733	TEST-ID-SYMBOLS-GENERAL NOTICE	120/576		
0545/1745	SIGNIFICANT CLOUD FEATURES	120/576	00/12	A
0605/1804	PACIFIC SURFACE ANALYSIS	120/576	00/12	B
0630/1827	GOES IR SATELLITE IMAGE	120/576	LATEST	EP
0645/1842	GOES IR SATELLITE IMAGE	120/576	LATEST	SP
0656/1853	TROPICAL SURFACE ANALYSIS	120/576	00/12	H
0721/1918	PACIFIC OCEAN SEA SURFACE TEMPS	120/576	LATEST	NPA
0741/1937	0/24HR WIND/WAVE FORECAST (2 CHARTS)	120/576	06&06/18&18	G
0800/1956	TROPICAL STREAMLINE ANALYSIS	120/576	00/12	K
0823/2019	NORTH PACIFIC SURFACE PRESSURE ANALYSIS	120/576	18/06	J

MAP AREAS: A - 50N-30S, 110W-160E H - 40N-40S, 105W-120E
 B - 50N-30S, 110W-130E J - 50N-EQ, 110W-130E
 C - 60N-55S, 055W-070E K - 30N-30S, 110W-130E
 D - 50N-30S, 100W-120E EP - 55N-40S, 105W-155E
 E - 60N-35S, 110W-130E SP - 05N-40S, 130W-165E
 F - 50N-25S, 120W-120E NPA - 55N-EQ, 010W-160E
 G - 30N-20S, 145W-080W

HONOLULU, HAWAII, USA

- (1) TROPICAL STREAM-FUNCTION ANALYSIS AND THE WIND/STREAM-FUNCTION FORECAST CHARTS DISPLAY 1000 MILLIBAR STREAM FUNCTION LINES. FOR SPEEDS IN KNOTS FOR ALL LATITUDES DIVIDE 50 BY THE SPACING BETWEEN THE STREAM FUNCTION LINES EXPRESSED IN DEGREES OF LATITUDE. THESE CHARTS, COMPUTER-GENERATED, ARE PARTICULARLY USEFUL IN THE TROPICS, WHERE THE ISOBARIC SPACING AND WIND-SPEED RELATIONSHIPS BECOME LESS MEANINGFUL. ARROWS ON THE STREAM-FUNCTION ANALYSIS CHARTS DEPICT VELOCITIES IN KNOTS OF THE TOPS OF LOWER CLOUDS DERIVED FROM SUCCESSIVE OBSERVATIONS BY SATELLITE. CAUTION - THESE CHARTS, BEING COMPUTER GENERATED, MAY NOT PROPERLY DELINEATE SMALL, THOUGH INTENSE, SYSTEMS IN DATA-SPARSE AREAS. NOTES ARE MANUALLY ADDED TO DIRECT ATTENTION TO SUCH SYSTEMS WHEN PRESENT.
- (2) PACIFIC SURFACE ISOBARIC ANALYSIS CHARTS, MANUALLY ANALYZED AT THE WEATHER SERVICE FORECAST OFFICE/CENTRAL PACIFIC HURRICANE CENTER, HONOLULU DEPICT THE ISOBARIC (PRESSURE) FIELD NORTH OF 15 NORTH AND STREAM LINES SOUTH OF 15 NORTH; SPACING BETWEEN STREAM LINES IS NOT INDICATIVE OF WIND SPEEDS.
- (3) THE 48-HOUR ISOBARIC SURFACE/THICKNESS FORECAST CHARTS DEPICT LINES OF EQUAL EQUAL PRESSURE IN MILLIBARS (SOLID LINES) AND, CHIEFLY OF INTEREST TO METEOROLOGISTS, 1000-TO-500 MILLIBAR THICKNESSES (DASHED LINES).
- (4) THE SIGNIFICANT CLOUD FEATURES CHARTS DEPICT CLOUD FEATURES BASED UPON IMAGES FROM THE VARIOUS GEOSTATIONARY AND POLAR ORBITING SATELLITES OVER THE PACIFIC. ABBREVIATIONS ON THESE CHARTS INCLUDE: AC - ALTOCUMULUS; AS - ALTOSTRATUS; BKN - BROKEN; CB - CUMULONIMBUS; CC - CIRROCUMULUS; CI - CIRRUS; CS - CIRROSTRATUS; CU - CUMULUS; FEW - FEW; ISOL - ISOLATED; LYRS - LAYERS; NS - NIMBOSTRATUS; OVC - OVERCAST; SC - STRATO-CUMULUS; SCT - SCATTERED; TCU - TOWERING CUMULUS; TSTM - THUNDERSTORM
- (5) THE 48-HOUR 500 MILLIBAR CHARTS DISPLAY 500 MILLIBAR HEIGHTS (SOLID LINES) AND VORTICITY LINES (DASHED LINES.)
- (6) THE SATELLITE IMAGES ARE INFRARED CLOUD PICTURES TRANSMITTED IN REAL TIME AS THEY ARE BEING SCANNED BY SATELLITE.
- (7) RADIOFAX FREQUENCIES ARE ASSIGNED FREQUENCIES. TO CONVERT TO CARRIER FREQUENCIES, SUBTRACT 1.9 KHZ FROM THE ASSIGNED FREQUENCIES.
- (8) BROADCAST MAY BE PERFORMED CONTINUOUSLY ON FOUR LISTED FREQUENCIES WHEN RESOURCES ARE AVAILABLE.
- (9) TRANSMITTERS MAY BROADCAST AT 10KW AT TIMES
- (10) YOU MAY ADDRESS COMMENTS ABOUT THIS BROADCAST TO:

Meteorologist In Charge
National Weather Service
2525 Correa Rd.
Honolulu, HI 96822
PHONE: (808) 973-5286/FAX: (808) 973-5271
E-Mail david.meek@noaa.gov

(INFORMATION DATED 12/20/01)tdr

<http://weather.noaa.gov/fax/hawaii.shtml>

EUROPE

SKAMLEBAEK, DENMARK

CALL SIGN	FREQUENCIES	TIMES	EMISSION	POWER
OXT (1)	5850 kHz	0028-1005	F3C	20 KW
		9360 kHz	0003-0025	
	13855 kHz	1008-1215	F3C	20 KW
		1243-1305		
		1828-1850		
		1218-1240		
		1308-1330	F3C	20 KW
		1803-1825		
	17510 kHz	1333-1355	F3C	20 KW

TIME	CONTENTS OF TRANSMISSION	RPM/IOC	VALID TIME	MAP AREA
0003(2)	ICE CHART #2 (OR #1)	120/576		
0028	ICE CHART #2 (OR #1)	120/576		
0943	ICE CHART #1	120/576		
1008	ICE CHART #1	120/576		
1153	ICE CHART #1	120/576		
1218	ICE CHART #1	120/576		
1243	ICE CHART #2 (OR#1)	120/576		
1308	ICE CHART #2 (OR #1)	120/576		
1333	ICE CHART #2 (OR #1)	120/576		
1803	ICE CHART #1	120/576		
1828	ICE CHART #1	120/576		

- NOTES :(1) CALL SIGN IS TRANSMITTED FOR A PERIOD OF 2 MINUTES IMMEDIATELY PRIOR TO CHART TRANSMISSION.
 (2) EITHER ONE OF CHART #2 IS TRANSMITTED IF AVAILABLE, OTHERWISE CHART #1 IS TRANSMITTED.
 (3) CHART #1 COVERS THE SOUTHERN TIP OF GREENLAND. CHART #2 IS A SECTION, WHICH MAY COVER ANY AREA NORTH OF 62 DEGREES NORTH ACCORDING TO NEED AND TIME OF YEAR EITHER ON WEST OR EAST COAST OF GREENLAND.

(INFORMATION DATED 06/1993)

<http://www.dmi.dk/vejr/ice/skara-dk.html>

HAMBURG/PINNEBERG, GERMANY

CALL SIGNS	FREQUENCIES	TIMES	EMISSION	POWER
DDH3	3855 kHz	0600-2300	F1C	10 KW
DDK3	7880 kHz	CONTINUOUS	F1C	20 KW
DDK6	13882.5 kHz	CONTINUOUS	F1C	20 KW

HAMBURG/PINNEBERG, GERMANY

TIME	CONTENTS OF TRANSMISSION	RPM/IOC	VALID TIME	MAP AREA
-----/1520	BALTIC SEA ICE CONDITIONS, N. part (seasonal) or ice chart for special area	120/576		0900
-----/1540	BALTIC SEA ICE CONDITIONS, N. part (seasonal) or ice chart for special area	120/576		0900
0430/1600	SURFACE ANALYSIS	120/576	00/12	
0512/-----	30HR SURFACE PROG	120/576	1800	
0525/-----	SURFACE ANALYSIS WITH ARROWS SHOWING MOVEMENT OF PRESSURE SYSTEMS, TROPICAL STORMS, SIGNIFICANT WEATHER AND ICE	120/576	0000	
0546/-----	TROPICAL STORM INFORMATION (SEASON ONLY)	120/576	0300	
0559/-----	12HR/24HR 500MB HT, TEMP/SURFACE PRESSURE PROGS	120/576	12/00	
-----/1800	SURFACE ANALYSIS WITH ARROWS SHOWING MOVEMENT OF PRESSURE SYSTEMS, TROPICAL STORMS, SIGNIFICANT WEATHER AND ICE	120/576	1200	
0612/-----	12HR/24HR 850MB TEMP/700MB RH PROGS (EMV)	120/576	12/00	
0625/-----	36HR/48HR 500MB HT, TEMP/SURFACE PRESSURE PROGS	120/576	12/00	
-----/1821	TROPICAL STORM INFORMATION (SEASON ONLY)	120/576	1500	
-----/1834	24HR SURFACE ANALYSIS	120/576	1200	
0638/-----	36HR/48HR 24HR 850MB TEMP/700MB RH PROGS	120/576	12/00	
-----/1847	REBROADCAST 0730Z	120/576	0000	
0651/-----	60HR/72HR 500MB /TEMP	120/576	12/00	
-----/1900	REBROADCAST 0804Z	120/576	0000	
0704/-----	60HR/72HR 850MB TEMP/700MB RH PROGS	120/576	12/00	
-----1915	SEA ICE OBSERVATIONS	120/576	0000	
0717/-----	REBROADCAST 0512Z	120/576	1800	
0730/-----	48HR SURFACE PROG	120/576	0000	
0743/-----	REBROADCAST 0525Z	120/576	0000	
0804/-----	72HR SURFACE PROG	120/576	0000	
0817/-----	96HR SURFACE PROG	120/576	0000	
0930/2100	NORTH-WEST ATLANTIC ICE CONDITIONS	120/576	00/12	
-----/2115	BALTIC SEA ICE CONDITIONS, W. part (seasonal) or ice chart for special area	120/576		1500
-----/2137	48HR WAVE PROG	120/576	1200	
0945/-----	NORTH SEA SEA SURFACE TEMP ANALYSIS(2)	120/576	0000	
1007/-----	BALTIC SEA ICE CONDITIONS, W. part (seasonal) or ice chart for special area	120/576		0000
1029/-----	48HR WAVE PROG	120/576	0000	
1050/2200	SURFACE ANALYSIS	120/576	06/18	
1111/-----	BROADCAST SCHEDULE	120/576		
1132/-----	TEST CHART	120/576		

(INFORMATION DATED (01/05/00))

http://www.dwd.de/services/gfsf/e_faxpln.html

ATHENS, GREECE

CALL SIGN	FREQUENCY	TIMES	EMISSION	POWER
SVJ4	4481 kHz		F3C	0.4 KW
SVJ4	8105 kHz		F3C	0.4KW

TIME	CONTENTS OF TRANSMISSION	RPM/IOC	VALID TIME	MAP AREA
0845	SURFACE ANALYSIS	120/576	0600	A
0857	SURFACE PROG (H+24)	120/576	0600	A
0909	SURFACE PROG (H+48)	120/576	0600	A
0921	WAVE HEIGHT PROG (H+30)	120/576	1200	B
0933	WAVE HEIGHT PROG (H+36)	120/576	1200	B
0945	WAVE HEIGHT PROG (H+42)	120/576	1200	B
0957	WAVE HEIGHT PROG (H+48)	120/576	1200	B
1009	WAVE HEIGHT PROG (H+30)	120/576	1200	C
1021	WAVE HEIGHT PROG (H+36)	120/576	1200	C
1033	WAVE HEIGHT PROG (H+42)	120/576	1200	C
1044	WAVE HEIGHT PROG (H+48)	120/576	1200	C

MAP AREA: A - SOUTH EUROPE , MEDITERRANEAN SEA, BLACK SEA
 B - MEDITERRANEAN
 C - AEGEAN

(INFORMATION DATED (04/2001))

ROME, ITALY

CALL SIGNS	FREQUENCIES	TIMES	EMISSION	POWER
IMB51	4777.5	KHz	F3C	5 KW
IMB55	8146.6	KHz	F3C	5 KW
IMB56	13597.4	KHz	F3C	5 KW

TIME	CONTENTS OF TRANSMISSION	RPM/IOC	VALID TIME	MAP AREA
-----/1200	SURFACE ANALYSIS - ITALY	120/576	0900	I
0055/1255	24HR FL390 WIND/TEMP / FL300 WIND/TEMP PROGS (1)	120/576	12/00	M
0117/1317	24HR FL340 WIND/TEMP PROG (1)	120/576	12/00	M
0129/1329	24HR FL240 WIND/TEMP / FL180 WIND/TEMP PROGS (1)	120/576	12/00	M
0151/1351	24HR FL100 WIND/TEMP / FL50 WIND/TEMP PROGS (1)	120/576	12/00	M
0248/1448	24HR TROPOPAUSE/MAX WIND PROG FL100-450 (1)	120/576	12/00	M
0345/1555	24HR SIG WEATHER/TROPOPAUSE/MAX WIND PROGS (2)	120/576	12/00	B1
0400/-----	3HR PRESSURE CHANGE/500MB ANALYSIS	120/576	0000	D/B
-----/1610	SURFACE ANALYSIS - ITALY	120/576	1500	I
0415/-----	SURFACE ANALYSIS (SUMMER TIME ONLY)	120/576	0000	B1
0425/-----	850MB ANAL/FREEZING LEVEL ANAL	120/576	0000	B
-----/1630	24HR LOW LEVEL SIGNIFICANT WEATHER PROG	120/576	0000	I1
0437/-----	SURFACE ANALYSIS - ITALY	120/576	0300	I
-----/1645	SURFACE ANALYSIS - ITALY	120/576	1200	B1
0457/-----	SURFACE ANALYSIS (6)	120/576	0000	B1
-----/1700	3HR PRESSURE CHANGE/500MB ANALYSIS	120/576	1200	B
0522/1730	200MB ANALYSIS/TROPOPAUSE-MAX WIND	120/576	00/12	B
0535/-----	12HR LOW LEVEL SIGNIFICANT WEATHER PROG	120/576	12/C-	I1
-----/1810	FREEZING LEVEL ANAL/850MB ANALYSIS	120/576	1200	B
0655/1855	18HR FL390 WIND/TEMP / FL300 WIND TEMP PROGS (1)	120/576	18/06	M
0717/1917	18HR FL340 WIND/TEMP PROG (1)	120/576	18/06	M
0729/1929	18HR FL240 WIND/TEMP / FL180 WIND/TEMP PROGS (1)	120/576	18/06	M
0751/1951	18HR FL100 WIND/TEMP / FL50 WIND TEMP PROGS (1)	120/576	18/06	M
0813/-----	TEST CHART	120/576		
0848/-----	18HR TROPOPAUSE/MAX WIND (1)	120/576	1800	M
0859/-----	48HR 500MB PROG	120/576	0000	E
0906/-----	72HR 500MB PROG	120/576	0000	E
0913/-----	96HR 500MB PROG	120/576	0000	E
0920/-----	120HR 500MB PROG	120576	0000	E
0927/-----	144HR 500MB PROG	120/576	0000	E
1000/-----	18HR SIGNIFICANT WEATHER PROG (2)	120/576	1800	B1
-----/2200	TEST CHART	120/576		
1030/-----	24HR SURFACE PROG/3HR PRESSURE CHANGE	120/576	0600	B/D
-----/2230	18HR MEDITERRANEAN SEA STATE PROG	120/576	1200	S
1045/-----	SURFACE ANALYSIS - ITALY	120/576	0600	B1
-----/2240	18HR LOW LEVEL SIGNIFICANT WEATHER PROG	120/576	00/12	I1
-----/2252	SURFACE ANALYSIS - ITALY	120/576	2100	I
-----/2312	SURFACE ANALYSIS	120/576	1800	B1
-----/2322	24HR SURFACE PROG/3HR PRESSURE CHANGE	120/576	1800	B/D
-----/2335	18HR SIG WX/TROPOPAUSE/MAX WIND PROG	120/576	0600	B1
1140/-----	18HR LOW LEVEL SIGNIFICANT WEATHER PROG	120/576	1800	I1
1153/-----	18HR MEDITERRANEAN SEA STATE PROG	120/576	0000	S

- NOTES:(1) REBROADCAST OF OFFENBACH (EDZW) TRANSMISSIONS.
 (2) TRANSMITTED ONLY IF OFFENBACH CHART (0345/0848/1555/2335) IS MISSING.
 (3) REBROADCAST OF BRACKNELL (EGRR/EGLL) TRANSMISSIONS.
 (4) CHARTS IN PICTORIAL FORM OF WASHINGTON (KWBC) FORECASTS.
 (5) CHARTS IN PICTORIAL FORM OF ECMWF READING FORECASTS.
 (6) REPLACES 0415/----- SURFACE ANALYSIS DURING STANDARD TIME.

MAP AREAS:

A	- 1:20,000,000	48N	145W,	32N	068E,	24N	069W,	15N	010E
B	- 1:20,000,000	52N	031W,	45N	061E,	24N	010W,	21N	037E
B1	- 1:15,000,000	52N	031W,	45N	061E,	24N	010W,	21N	037E
D	- 1:15,000,000	49N	025W,	49N	045E,	28N	010W,	28N	030E
E	- 1:40,000,000	54N	090W,	54N	090E,	17N	027W,	17N	027E
I	- 1:02,500,000	48N	005E,	48N	019E,	35N	005E,	35N	019E
I1	- 1:04,000,000	50N	005E,	50N	020E,	35N	005E,	35N	020E
M	- 1:15,000,000	51N	046W,	56N	060E,	25N	017W,	27N	033E
S	- 1:10,000,000	45N	006W,	41N	039E,	29N	001W,	26N	031E

MOSCOW, RUSSIA

CALL SIGNS	FREQUENCIES	TIMES	EMISSION	POWER
	3830 kHz		F3C	
	5008 kHz		F3C	
	6987 kHz		F3C	
	7695 kHz		F3C	
RCC76	10980 kHz		F3C	
	12961 kHz		F3C	
RDD78	11617 kHz		F3C	

TIME	CONTENTS OF TRANSMISSION	RPM/IOC	VALID TIME	MAP AREA
0003/-----	18HR SIGNIFICANT WEATHER PROG BELOW 400MB	120/576	1200	Q
-----/1210	24HR 300MB PROG	120/576	0000	R
0016/-----	18HR 400MB PROG	120/576	1200	M
-----/1225	24HR SIGNIFICANT WEATHER PROG	120/576	0000	R
0029/-----	30HR 200MB PROG	120/576	1200	R
-----/1240	18HR SIGNIFICANT WEATHER PROG ABOVE 400MB	120/576	0000	M
0044/-----	30HR 250MB PROG	120/576	1200	R
-----/1253	18HR 300MB PROG	120/576	1800	R
0059/-----	30HR 300MB PROG	120/576	1200	R
-----/1306	18HR SIGNIFICANT WEATHER PROG BELOW 400MB	120/576	0000	Q
0114/-----	30HR SIGNIFICANT WEATHER PROG	120/576	1200	R
-----/1320	18HR 400MB PROG	120/576	1800	M
0129/-----	500MB ANALYSIS	120/576	1200	N
0151/1333	300MB ANALYSIS	120/576	12/00	N
-----/1355	500MB ANALYSIS	120/576	0000	N
0215/1417	SURFACE ANALYSIS	90/576	00/12	U
0245/1447	TROPOPAUSE ANALYSIS	120/576	00/12	U
0307/1509	850MB ANALYSIS	90/576	00/12	U
0337/1539	500MB ANALYSIS	90/576	00/12	U
0407/1609	1000/500MB THICKNESS ANALYSIS	90/576	00/12	U
0437/1639	SURFACE ANALYSIS	90/576	03/15	P
0513/1715	400MB ANALYSIS	90/576	00/12	U
0543/-----	24HR SURFACE PROG	120/288	0000	U
-----/1745	NEPHANAL & 24HR PROG	120/576	1200	M
0555/-----	24HR/36HR 700MB PROG	120/288	00/12	U
-----/1805	24HR SURFACE PROG	120/288	0000	U
0607/-----	24HR/36HR 500MB PROG	120/288	00/12	U
-----/1817	30HR 200MB PROG	120/576	0600	R
0619/-----	12HR SIGNIFICANT WEATHER PROG ABOVE 400MB	120/576	1200	M
0631/-----	12HR 300MB PROG	120/576	1200	M
-----/1832	30HR 250MB PROG	120/576	0600	R
0644/-----	NEPHANAL & 24HR CLOUD PROG	120/576	0000	M
-----/1847	30HR 300MB PROG	120/576	0600	R
-----/1902	30HR SIGNIFICANT WEATHER PROG	120/576	0600	R
0704/-----	MAX WIND ANALYSIS	120/576	0000	U
0726/1917	12HR SIGNIFICANT WEATHER PROG ABOVE 400MB	120/576	00/12	Q/M
-----/1930	12HR 300MB PROG	120/576	0000	M
0739/-----	12HR 400MB PROG	120/576	1200	M
-----/1943	12HR SIGNIFICANT WEATHER PROG BELOW 400MB	120/576	1200	Q
0752/-----	SURFACE ANALYSIS	90/576	0000	N
-----/1956	12HR 400MB PROG	120/576	1200	M
-----/2009	MAX WIND ANALYSIS	120/576	1200	U
0822/-----	SURFACE ANALYSIS	90/576	0600	U
-----/2031	SURFACE ANALYSIS	90/576	1800	U
0852/-----	200MB ANALYSIS	90/576	0000	U
-----/2101	SURFACE ANALYSIS	90/576	1200	N
0922/-----	24HR/36HR 850MB PROG	120/576	00/12	U
-----/2131	200MB ANALYSIS	90/576	1200	U
0934/-----	36HR SURFACE PROG	120/288	0000	U
0946/-----	1000MB & 500MB ANALYSIS	90/576	1200	X
-----/2201	24HR 200MB PROG	120/576	1200	R
1013/-----	48HR/72HR/96HR/120HR/144HR SURFACE GRID DATA	90/576	1200	X
-----/2216	24HR 250MB PROG	120/576	1200	R

MOSCOW, RUSSIA

TIME	CONTENTS OF TRANSMISSION	RPM/IOC	VALID TIME	MAP AREA
-----/2231	24HR 300MB PROG	120/576	1200	R
1040/2246	SURFACE ANALYSIS	90/576	09/21	P
1116/-----	TECHNICAL STOP			
-----/2322	24HR SIGNIFICANT WEATHER PROG	120/576	1200	R
-----/2337	18HR SIGNIFICANT WEATHER PROIG ABOVE 400MB	120/576	1200	M
1140/-----	24HR 200MB PROG	120/576	0000	R
-----/2350	18HR 300MB PROG	120/576	0600	M
1155/-----	24HR 250MB PROG	120/576	0000	R

MAP AREAS:

M	-	1:15,000,000	56N	018W,	58N	108E,	30N	016W,	32N	072E
N	-	1:30,000,000	03N	097W,	03S	027W,	EQ	142E,	05S	077E
P	-	1:05,000,000	67N	002E,	42N	028E,	74N	061E,	44N	055E
Q	-	1:07,500,000	61N	010E,	43N	022E,	61N	071E,	43N	059E
R	-	1:30,000,000	39N	066W,	08N	014E,	18N	149E,	02S	088E
U	-	1:20,000,000	32N	051W,	15N	014E,	32N	167E,	16N	103E
X	-	1:30,000,000	NORTHERN HEMISPHERE 90N - 20N							

(INFORMATION DATED 11/1996) Currently operational frequencies reported as being 53.8, 10611 and 13886 kHz and also 5108 and 6890 kHz at irregular times.

MURMANSK, RUSSIA

CALL SIGN	FREQUENCIES	TIMES	EMISSION	POWER
RBW 41	5336 kHz	CONTINUOUS	F3C	
	6445.5 kHz		F3C	
	7908.8 kHz		F3C	
RBW48	10130 kHz	0600-1900	F3C	

TIME	CONTENTS OF TRANSMISSION	RPM/IOC	VALID TIME	MAP AREA
0700	36HR SURFACE PROG	120/576	0000	A
0800	SEA STATE ANALYSIS	120/576	0600	C
1400	SURFACE TEMP ANALYSIS/ICEBERG POSITIONS	120/576	1200	B
1400	ANAL OF ICEBERG POSITIONS FOR PAST+24HR	120/576	1200	C
1430	24HR SEA STATE PROG	120/576	1200	C
1850	BROADCAST SCHEDULE	90/576		
2000	ICEBERG PROGNOSIS	120/576		

NOTES: (1) BASIC COVERAGE AREA IS FOR BARENTS SEA. MAP AREAS:

A	-1:05,000,000	67N	032W,	53N	047E,	72N	074E,	51N	004W
B	-1:03,000,000	79N	010E,	74N	010E,	79N	040E,	74N	040E
C	-1:05,000,000	78N	010E,	66N	010E,	78N	070E,	66N	070E

(INFORMATION DATED 11/97) Current operational frequencies report as being 6446 and 8444 kHz (nights) and 7907 kHz (days). Broadcast schedule may no longer be transmitted on-air.

ANKARA, TURKEY

CALL SIGNS	FREQUENCIES	TIMES	EMISSION	POWER
YMA20	3377 kHz	1610-0500	F3C	5 KW
YMA20	6790 kHz	0500-1610	F3C	5 KW

TIME	CONTENTS OF TRANSMISSION	RPM/IOC	VALID TIME	MAP AREA
-----/1240	SURFACE ANALYSIS	90/576	0900	A
0330/-----	24HR/36HR 500MB PROGS	90/576	1200	A
0430/1610	SURFACE ANALYSIS	90/576	00/12	A
0500/-----	TEST CHART	90/576		

ANKARA, TURKEY

TIME	CONTENTS OF TRANSMISSION	RPM/IOC	VALID TIME	MAP AREA
-----/1710	24HR SIGNIFICANT WEATHER PROG	90/576	1200	A
0610/1840	SURFACE ANALYSIS	90/576	03/15	A
0640/1910	500MB ANALYSIS	90/576	00/12	A
0710/-----	300MB ANALYSIS	90/576	0000	A
0740/-----	24HR SIGNIFICANT WEATHER PROG	90/576	0000	A
-----/1940	200MB ANALYSIS	90/576	1200	A
0810/-----	24HR 700MB PROG	90/576	0000	A
-----/2015	300MB ANALYSIS	90/576	1200	A
0840/-----	24HR 300MB PROG	90/576	0000	A
0910/-----	48HR/72HR 500MB PROG	90/576	1200	A
0940/2152	SURFACE ANALYSIS	90/576	0600	A
1010/-----	TROPOPAUSE PROG	90/576	0000	A
1040/-----	MAX WIND ANALYSIS	90/576	0000	A

MAP AREA: A- 1:10,000,000 54N 013W, 53N 076E, 18N 007E, 17N 055E

(INFORMATION DATED 07/1991) Operations of this station may have terminated in 1998

NORTHWOOD, UNITED KINGDOM

CALL SIGNS	FREQUENCIES	TIMES	EMISSION	POWER
GYA	2618.5 kHz	CONTINUOUS	F3C	10 KW
GYA	4610 kHz	CONTINUOUS	F3C	10 KW
GYA	8040 kHz	CONTINUOUS	F3C	10 KW
GYA	11086.5 kHz	CONTINUOUS	F3C	10 KW

TIME	CONTENTS OF TRANSMISSION	RPM/IOC	VALID TIME	MAP AREA
0000/-----	SURFACE PROG T+72	120/576	1200	
0100/-----	SURFACE PROG T+72	120/576	1200	
0200/-----	SURFACE PROG T+72	120/576	1200	
0236/-----	SCHEDULE	120/576		
0300/-----	SURFACE ANALYSIS	120/576	0000	
0348/-----	GALE SUMMARY	120/576	0300	
0400/-----	SURFACE ANALYSIS	120/576	0000	
0448/-----	500 MB HEIGHT T+0	120/576	0000	
0500/-----	SURFACE ANALYSIS	120/576	0000	
0512/-----	500MB HEIGHT T+24	120/576	0000	
0524/-----	SURFACE PROG T +24	120/576	0000	
0536/-----	SCEXA TAFS SUMMER ONLY	120/576	0600	
0548/-----	SCEXA TAFS CONTINUED	120/576	0600	
0600/-----	GALE SUMMARY	120/576	0600	
0612/-----	300 MB HEIGHT T+0	120/576	0000	
0624/-----	300 MB HEIGHT T+24	120/576	0000	
0636/-----	SCEXA TAFS	120/576	0700	
0648/-----	SCEXA TAFS CONTINUED	120/576	0700	
0700/-----	GALE SUMMARY	120/576	0600	
0712/-----	850MB WBPT T+24	120/576	0000	
0724/-----	500/1000 MB THICKNESS ANALYSIS	120/576	0000	
0736/-----	500/1000 MB THICKNESS T+24	120/576	0000	
0748/-----	SIG WIND AREAS T+24	120/576	0000	
0800/-----	SURFACE PROG T+24	120/576	0000	
0812/-----	SIG WIND AREAS T+48	120/576	0000	
0824/-----	SIG WIND AREAS T+72	120/576	0000	
0836/-----	SIG WIND AREAS T+96	120/576	0000	
0848/-----	SURFACE PROG T+48	120/576	0000	
0900/-----	SURFACE ANALYSIS	120/576	0600	
0912/-----	SURFACE PROG T+72	120/576	0000	
0924/-----	SEA SWELL T+24	120/576	0000	
0936/-----	SPOT WINDS 850MB T+24	120/576	0000	
0948/-----	SPOT WINDS 700MB T+24	120/576	0000	
1000/-----	SURFACE PROG T+24	120/576	0600	

NORTHWOOD, UNITED KINGDOM

TIME	CONTENTS OF TRANSMISSION	RPM/IOC	VALID TIME	MAP AREA
1012/-----	SPOT WINDS 500MB T+24	120/576	0000	
1024/-----	SPOT WINDS 400MB T+24	120/576	0000	
1036/-----	SPOT WINDS 300MB T+24	120/576	0000	
1048/-----	SPOT WINDS 250MB T+24	120/576	0000	
1100/-----	SURFACE ANALYSIS	120/576	0600	
1124/-----	SURFACE PROG T+96	120/576	0000	
1136/-----	SURFACE PROG T+120	120/576	0000	
1148/-----	GALE SUMMARY	120/576	1200	
1200/-----	SURFACE ANALYSIS	120/576	0600	
1212/-----	SST 10 PERCENT ICE EDGE	120/576	MON/THU	
1224/-----	LAYER DEPTH	120/576	TUE	
1236/-----	CZ POTENTIAL	120/576	TUE	
1248/-----	MINIMUM SOUND CHANNEL DEPTH	120/576	TUE	
1300/-----	SURFACE PROG T+24	120/576	0600	
1312/-----	SHIP ICE ACCRETION 0 DEG C LEVEL T+24	120/576	0000	
1324/-----	POOR VISIBILITY T+24	120/576	0000	
1400/-----	SURFACE PROG T+72	120/576	0000	
1424/-----	SCHEDULE	120/576		
1436/-----	SCEXA TAFS	120/576	1500	
1448/-----	SCEXA TAFS CONTINUED	120/576	1500	
1500/-----	SURFACE ANALYSIS	120/576	1200	
1536/-----	OCEAN FRONTAL POSITIONS	120/576	THU	
1548/-----	GALE SUMMARY	120/576	1600	
1600/-----	SURFACE PROG T+48	120/576	0000	
1700/-----	SURFACE PROG T+48	120/576	0000	
1724/-----	500 MB HEIGHT T+0	120/576	1200	
1736/-----	SURFACE PROG T+24	120/576	1200	
1748/-----	500MB HEIGHT T+24	120/576	1200	
1800/-----	SURFACE ANALYSIS	120/576	1200	
1812/-----	300MB HEIGHT T+0	120/576	1200	
1824/-----	300MB HEIGHT T+24	120/576	1200	
1836/-----	500/1000MB THICKNESS T+0	120/576	1200	
1848/-----	500/1000MB THICKNESS T+24	120/576	1200	
1900/-----	GALE SUMMARY	120/576	1900	
1912/-----	SEA SWELL T+24	120/576	1200	
1924/-----	850MB WBPT T+24	120/576	1200	
2000/-----	SURFACE PROG T+48	120/576	1200	
2012/-----	SURFACE PROG T+72	120/576	1200	
2024/-----	SURFACE PROG T+96	120/576	1200	
2036/-----	SURFACE PROG T+120	120/576	1200	
2100/-----	SURFACE ANALYSIS	120/576	1800	
2112/-----	SIG WIND AREAS T+24	120/576	1200	
2124/-----	SIG WIND AREAS T+48	120/576	1200	
2136/-----	SIG WIND AREAS T+72	120/576	1200	
2148/-----	SIG WIND AREAS T+96	120/576	1200	
2200/-----	SURFACE PROG T+24	120/576	1200	
2212/-----	SPOT WINDS 850MB T+24	120/576	1200	
2224/-----	SPOT WINDS 700MB T+24	120/576	1200	
2236/-----	SPOT WINDS 500MB T+24	120/576	1200	
2248/-----	SPOT WINDS 400MB T+24	120/576	1200	
2300/-----	SURFACE ANALYSIS	120/576	1800	
2312/-----	SPOT WINDS 300MB T+24	120/576	1200	
2324/-----	SPOT WINDS 250MB T+24	120/576	1200	

(INFORMATION DATED 22 NOV 2001)

ANTARTICA

CASEY, ANTARCTICA

CALL SIGN	FREQUENCIES	TIMES	EMISSION	POWER
VLM	7470 kHz	CONTINUOUS	F3C	1 KW

TIME	CONTENTS OF TRANSMISSION	RPM/IOC	VALID TIME	MAP AREA
0000	48HR MSL PROG	120/576	1200	
0020	48HR SURFACE WIND PROG	120/576	1200	
0040	48HR TOTAL WAVE HT PROG	120/576	1200	
0100	60HR MSL PROG	120/576	0000	
0200	72HR MSL PROG	120/576	1200	
0700	BROADCAST SCHEDULE	120/576		
0800	SURFACE ANALYSIS (MANUAL)	120/576	0000	
1000	24HR MSL PROG	120/576	0000	
1020	24HR SURFACE WIND PROG	120/576	0000	
1040	24HR TOTAL WAVE HT PROG	120/576	0000	
1100	36HR MSL PROG	120/576	1200	
1120	36HR SURFACE WIND PROG	120/576	1200	
1140	36HR TOTAL WAVE HT PROG	120/576	1200	
1200	48HR MSL PROG	120/576	0000	
1220	48HR SURFACE WIND PROG	120/576	0000	
1240	48HR TOTAL WAVE HT PROG	120/576	0000	
1300	60HR MSL PROG	120/576	1200	
1320	72HR MSL PROG	120/576	0000	
1900	SEA SURFACE TEMPS	120/576	WEEKLY	
2000	SURFACE ANALYSIS (MANUAL)	120/576	1200	
2200	24HR MSL PROG	120/576	1200	
2220	24HR SURFACE WIND PROG	120/576	1200	
2240	24HR TOTAL WAVE HT PROG	120/576	1200	
2300	36HR MSL PROG	120/576	0000	
2320	36HR SURFACE WIND PROG	120/576	0000	
2340	36HR TOTAL WAVE HT PROG	120/576	0000	

NOTES: COMMENTS OR SUGGESTIONS MAY BE FORWARDED TO:
 STEVE PENDLEBURY
 GPO BOX 727G
 HOBART, AUSTRALIA

(INFORMATION DATED 04/1998)

http://www.bom.gov.au/nmoc/rad_sch/vlm_sched.shtml

CENTRO METEOROLOGICO ANTARTICO

CALL SIGN	FREQUENCIES	TIMES	EMISSION	POWER
LSB	2401 kHz	CONTINUOUS	F3C	10 KW
LSB	4807 kHz	CONTINUOUS	F3C	10 KW
LSB	9951 kHz	CONTINUOUS	F3C	10 KW

TIME	CONTENTS OF TRANSMISSION	RPM/IOC	VALID TIME	MAP AREA
0025/1225	SURFACE ANALYSIS	120/576	21/09	A
0325/1525	SURFACE ANALYSIS	120/576	00/12	A

MAP AREA: POLAR PROJECTION WHICH COVERS ALL OF SOUTH AMERICA.
 NOTES: OPERATED BY ARGENTINA

(INFORMATION DATED 01/1996)

APPENDICIES

NATIONAL WEATHER SERVICE MARINE PRODUCTS VIA INTERNET INCLUDING RADIOFAX

The Internet is **not** part of the National Weather Service's operational data stream and should never be relied upon as a means to obtain the latest forecast and warning data.

The **Marine Product Dissemination Information webpage** contains information on the dissemination of U.S. National Weather Service marine products including radiofax such as frequency and scheduling information as well as links to products. The webpage may be found at:

<http://www.nws.noaa.gov/om/marine/home.htm>

Marine Text and Graphic Forecasts

The majority of National Weather Service (NWS) forecasts and warnings may be found under the **NWS webpage** (<http://www.nws.noaa.gov>). Of specific interest to mariners are the **NWS Marine Product Listing and Schedule** (<http://www.nws.noaa.gov/om/marine/forecast.htm>) and **Marine Charts/Radiofax** (<http://weather.noaa.gov/fax/marine.shtml>) webpages. Offshore and coastal marine text forecasts subdivided by zone are available using our **text interface** (<http://www.nws.noaa.gov/om/marine/textzones.htm>) or **graphic interface** (<http://www.nws.noaa.gov/om/marine/zone/usamz.htm>). **Individual NWS Forecast Offices producing marine forecasts** (http://www.nws.noaa.gov/om/marine/marine_map.htm) provide links to their products as well as additional regionally focused information. Also see Computer Generated Model Guidance below.

Satellite and RADAR Imagery

Satellite imagery may be found on the **GOES webpage** (<http://www.goes.noaa.gov/>) and is also available from **NASA** (<http://rsd.gsfc.nasa.gov/goes/>). Information and links to Sea Surface **Temperature Charts and Gulf Stream charts** may be found on our **FAQ webpage** (<http://www.nws.noaa.gov/om/marine/faq.htm>). **NEXRAD Doppler Radar images** (<http://weather.noaa.gov/radar/mosaic/DS.p19r0/ar.us.conus.shtml>) are available on the Internet on the **NWS Homepage** (<http://www.nws.noaa.gov>) and **local NWS Forecast Offices homepages** (http://www.nws.noaa.gov/om/marinr/marine_map.htm). NEXRAD Doppler Radar images may also be found on local cable channels and the Internet webpages of local media including TV stations, radio stations and newspapers as well as others. Use one of Internet search engines to search on topics such as "NEXRAD radar".

Ice Analyses, Forecasts and Iceberg Reports

Ice analyses, forecasts and iceberg reports are available from the **National Ice Center** (<http://www.natice.noaa.gov/>) and the U.S. Coast Guard's **International Ice Patrol** (<http://www.uscg.mil/lantarea/iip/home.html>), and local NWS marine forecast offices in areas such as Alaska where ice is a concern. Ice forecasts and observations are also made available as radiofax, text products and computer generated model guidance.

Computer Generated Model Guidance

Computer generated model guidance products used by marine forecasters is available from the **Ocean Modeling Branch** (<http://polar.wwb.noaa.gov/>) and the **Environmental Modeling Center** (<http://www.emc.ncep.noaa.gov/>). The **Weather Charts webpage** (<http://weather.noaa.gov/fax/graph.shtml>) contains charts, intended as guidance to forecasters which can prove of value to mariners. Caution...these data have not been validated by marine forecasters and may be misleading. Mariners should use these data in conjunction with forecaster generated forecasts.

Foreign Marine Forecasts

Links to **foreign meteorological services** (<http://www.wmo.ch/web-en/member.html>) are available courtesy of the **World Meteorological Organization (WMO)** (<http://www.wmo.ch>).

Buoy and Other Real-Time Observations

The latest coastal and offshore weather observations from NOAA fixed and drifting data buoys and Coastal-Marine Automated Network (C-MAN) stations may be found at the **National Data Buoy Center webpage** (<http://www.ndbc.noaa.gov>). Real time meteorological and oceanographic observations for several sites are also available from **the Physical Oceanographic Real-Time System (Ports)** (http://coops.nos.noaa.gov/d_ports.html). PORTS is a program of the U.S. **National Ocean Service** (<http://www.nos.noaa.gov>) that supports safe and cost-efficient navigation by providing ship masters and pilots with accurate real-time information required to avoid groundings and collisions. **Several National Ocean Service tide gages are also equipped with ancillary meteorological sensors** (<http://tidesonline.nos.noaa.gov/geographic.html>). Regionally focused observation data may also be found on the webpages of local NWS Forecast Offices. Some marine observations may also be found on our NWS Marine Product Listing and Schedule (<http://www.nws.noaa.gov/om/marine/forecast.htm>). Historical and real-time beach temperature data is available from the **NODC Coastal Water Temperature Guide** (<http://www.nodc.noaa.gov/dsdt/cwtg/>).

Tide Predictions and Observations

Near real-time **Water Level Observations, and Predicted Tide Information** <http://www.co-ops.nos.noaa.gov> for the calendar year are available from the **National Ocean Service** (<http://www.nos.noaa.gov>). These predictions are with respect to reference stations and require manual calculation to compute the time and heights of tidal HI's and LOW's for secondary locations. Tide information precomputed for secondary locations for the current and following month may often be found on the **webpages of local NWS Forecast Offices** (http://www.nws.noaa.gov/om/marine/marine_map.htm). Read the **NOS Tides FAQ** (<http://www.co-ops.nos.noaa.gov/faq1.html>) for further information on obtaining NOS tides and tidal current data. *Caution is urged in using tide data made available at University and other webpages. This information may not be based on current government data and be of unknown quality.*

Historic Weather Forecasts, Satellite Images and Oceanographic Data

For historic weather forecasts, satellite images and oceanographic data, contact the National Climatic Data Center and National Oceanographic Data Center, found on **our listing of Phone Numbers and Addresses** (<http://www.nws.noaa.gov/om/marine/phone.htm>).

Voluntary Observing Ship Program

All NWS marine forecasts rely heavily on the **Voluntary Observing Ship (VOS)** program (<http://www.vos.noaa.gov/>) for obtaining meteorological observations. Ship observations may also be found on the National Data Buoy Center – Observations Search (http://www.ndbc.noaa.gov/cgi-bin/map_search.pl), **Penn State** (<http://www.ems.psu.edu/cgi-bin/wx/offshore.cgi>), **Oceanweather** (<http://www.oceanweather.com/data/index.html>) and **Great Lakes Ship Locations** (<http://reef.atmos.colostate.edu/drummond/>) webpages.

Marine Webpages

The Internet contains a great number of webpages of interest to the mariner. Visit **our Links webpage** (<http://www.nws.noaa.gov/om/marine/mlinks.htm>) for a listing of recommended webpages pertaining to Marine Weather. The **U.S. Coast Guard Maritime Telecommunications Information webpage** (<http://www.navcen.uscg.gov/marcomms>) contains an excellent description of marine communication systems. There are also many other Internet sites of interest to the mariner. Use one the Internet search engines to search on topics such as "marine weather", "radiofax", "radiofacsimile", "weather buoys", "tides", etc. The NOAA Library (<http://www.lib.noaa.gov>) provides an excellent listing of links to marine related webpages within NOAA and elsewhere. Also you may use the powerful **NWS search tool** (<http://www.nws.noaa.gov/search.html>) to search for items on the NWS webserver. Be aware that not all NWS webpages reside on this server.

Marine Weather Publications On the Web

Many marine weather related government publications are available on the Web. Visit our **publications webpage** <http://www.nws.noaa.gov/om/marine/pub.htm> for several we recommend including our popular Marine Service Charts, the Mariners Weather Log Magazine, and our listing of Worldwide Marine Radiofacsimile Broadcast Schedules (this publication).

Internet Access for Mariners

Internet at sea can be problematic unless you stay within cellular telephone range of shore. Internet access using cellular technology is technically challenging and potentially frustrating as well. Terrestrial wireless Internet services such as those provided by **GoAmerica** (www.goamerica.net), **Palm.Net** (<http://www.palm.com/products/palmvii/wireless.html>), **OmniSky** (www.omnisky.com/), **eHarbor** (www.eharbor.org) and **AlwaysOnline.net** (www.alwaysonline.net) are beginning to become available, however, these provide limited maritime coverage. Satellite services including **Inmarsat** (www.inmarsat.org), **Iridium** (www.iridium.com/), **Globalstar** (www.globalstarusa.com), **MSAT** (www.tmi.ca), **Motient** (www.motient.com/), **Boatrac** (www.boatrac.com), **ViaSat** (www.viasat.com/commercial/broadband/mobile.htm), **Orbcomm** (www.orbcomm.com), and **MTN** (www.mtnsat.com) are available, however, costs are generally greater. Visit **the U.S. Coast Guard R&D Center** (<http://comms.rdc.uscg.mil/links.htm>) for links to present and future satellite systems.

Full Internet access is often available if you have a satellite terminal onboard, but presently unless you restrict your use to e-mail messages, costs can be high. A number of satellite services such as Inmarsat-C offer e-mail messaging services only and provide no direct access to the World Wide Web. Several transmission and data compression schemes are available and in development to make the Web more accessible to the mariner. There are also several public FTP-to-EMAIL and WWW-to-EMAIL servers available to allow Internet access for users who do not have direct or cost effective access to the World Wide Web but who are equipped with an e-mail system. Visit <http://www.fags.org/faqs/internet-services/access-via-email/> for information. Low cost, worldwide, access to the World Wide Web via satellite should be available to the mariner in the next five to ten years.

E-mail access is available offshore if you have an HF marine radio from companies such as **Sailmail** (www.sailmail.com), **SeaMail** (www.seamail.org), **PinOak** (www.pinoak.com), **CruiseEmail** (www.cruiseemail.com/index.html), **MarineNet** (www.marinenet.net), **Kielradio** (www.kielradio.de/GB/Start_GB.htm), **Globe Wireless** (www.globewireless.com), **KKL Radio** (www.pnls-ci.org/kkl/) **Mobile Marine Radio Network-WLO** (www.wloradio.com). and **The Message Center** (<http://world.std.com/~msgctr/>). E-mail can be accomplished at no cost using **amateur radio** (<http://www.nws.noaa.gov/om/marine/ham.htm>).

A Palm Query application named MarineWX for PALM compatible PDA's such as the PALM VII is now available to obtain the most popular NWS marine text forecasts. See: <http://www.nws.noaa.gov/om/marine/internet.htm#palm>

Note: Any reference to a commercial product or service does not imply any endorsement by the National Weather Service as to function or suitability for your purpose or environment.

National Weather Service Products Available Via E-MAIL (FTPMAIL)

Lots of new features and products added 9/12/00

National Weather Service marine text forecasts and radiofax charts are available via e-mail. Further, FTPMAIL may be used to acquire any file on a *.noaa.gov FTP server. The FTPMAIL server is intended to allow Internet access for mariners and other users who do not have direct access to the World Wide Web but who are equipped with an e-mail system. Turnaround is generally in under one hour, however, performance may vary widely and receipt cannot be guaranteed. To get started in using the NWS FTPMAIL service, follow these simple directions to obtain the FTPMAIL "help" file (7 KBytes), or visit <http://weather.noaa.gov/pub/fax/ftpmail.txt>.

Send an e-mail to: ftpmail@weather.noaa.gov
Subject line: Put anything you like
Body: help

The FTPMAIL [!help@](#) command and product index files are included in Appendix B of this document for convenience. Be certain to occasionally download these files to make certain you have the latest versions available.

National Hurricane Center Listserver

The National Hurricane Center operates an e-mail listserver which is special interest to mariners who do not have direct access to the World Wide Web but who are equipped with an e-mail system. This listserver provides an automated means to receive NWS hurricane forecast products via e-mail. However, performance may vary and receipt cannot be guaranteed. This is an experimental service. Interruptions or duplications in e-mail deliveries while we test the system are to be expected. Notices will be sent if any extended interruptions are encountered. See **instructions on using the NHC listserver** (<http://www.nhc.noaa.gov/signup.html>).

University of Illinois Listserver

The University of Illinois at Urbana-Champaign operates an **e-mail listserver** (<http://ralph.centerone.com/wxlist/>) of which two Lists, WX-ATLAN, and WX-TROPL are of special interest to mariners who do not have direct access to the World Wide Web but who are equipped with an e-mail system. These Lists provide an automated means to receive NWS hurricane forecast products via e-mail. However, performance may vary and receipt cannot be guaranteed. For **instructions on using the UIUC listserver** visit <http://weather.noaa.gov/pub/fax/uiuclist.txt>.

Internet Broadcasts

Marine weather data may also be obtained via the Internet using **EMWIN** (<http://www.nws.noaa.gov/om/marine/emwin.htm>). As part of the **New NOAA Weather Wire Service** (<http://www.nws.noaa.gov/om/marine/wxwire.htm>). **DynCorp** (<http://dynis.is.dyncorp.com/contracts/nwws/index.html>) broadcasts the entire Weather Wire product stream on the Internet as a commercial service.

Directories of NWS Marine Forecasts

For Website developers or other "power" users, many NWS marine text forecast products are available at the following URL's, indexed by WMO header or zone.

<http://weather.noaa.gov/pub/data/forecasts/marine/>
<ftp://weather.noaa.gov/data/forecasts/marine/>
<http://weather.noaa.gov/pub/data/raw/>
<ftp://weather.noaa.gov/data/raw/>
<http://iwin.nws.noaa.gov/pub/data/text/>
<ftp://iwin.nws.noaa.gov/data/text/>
<http://iwin2.nws.noaa.gov/pub/data/text/>
<ftp://iwin2.nws.noaa.gov/data/text/>
<http://www.ndbc.noaa.gov/data/Forecasts/>
<ftp://www.mpc.ncep.noaa.gov/pub/docs/mpc>
<http://asp1.sbs.ohio-state.edu/text/marine/>

Many National Weather Service Weather Charts may be found in the following directories, indexed by WMO ID or other identifier.

<http://weather.noaa.gov/pub/fax/>
<ftp://weather.noaa.gov/fax/>
<http://www.mpc.ncep.noaa.gov/shtml/>
<ftp://www.mpc.ncep.noaa.gov/pub/data/mpc/>

Change Notices

For details on changes to NWS products, visit the Office of Meteorology Notifications (<http://www.nws.noaa.gov/om/notif.htm>) **Data Product Change Management Database** (<http://www.nws.noaa.gov/oso/oso1/oso11/oso112/drg/drgrptc.htm>) and **Systems Operations Center Change Notices** (<http://www.nws.noaa.gov/oso/notices/notices.shtml>).

NATIONAL WEATHER SERVICE INTERNET SITES

NWS Homepage	http://www.nws.noaa.gov
NWS Marine Product Dissemination Information	http://www.nws.noaa.gov/om/marine/home.htm
NWS Marine Text Products	http://www.nws.noaa.gov/om/marine/forecast.htm
NWS Marine Radiofax Products	http://www.nws.noaa.gov/fax/marine.shtml
NWS Voluntary Observing Ship Program	http://www.vos.noaa.gov
AMVER/SEAS Homepage	http://seas.nos.noaa.gov/seas/

U.S. NAVY AND OTHER WEATHER INTERNET SITES

See these sites for further links

Naval Oceanographic Office	http://www.navo.navy.mil
Navy Fleet Numerical	http://www.fnmoc.navy.mil
Navy, Atlantic Product Support Homepage	http://www.nlmoc.navy.mil/home1.shtml
International Ice patrol	http://www.rdc.uscg.mil/iippages/home.html
National Ice Center	http://www.natice.noaa.gov
WMO Homepage	http://www.wmo.ch
USCG Maritime Telecommunications	http://www.navcen.uscg.gov/marcomms

FTPMAIL

FTPMAIL help file

*
*
* WARNING

* This is a United States Government Computer. Use of
* this computer for purposes for which authorization
* has not been extended is a violation of federal law.

* (Reference Public Law 99-474)

* For Help contact:

* Clifford.Fridlind@noaa.gov 301-713-0882 x 122
* Timothy.Rulon@noaa.gov 301-713-1677 x 128
*

**** NEW USERS....Read these notes on CAPITALIZATION ****

CORRECT CAPITALIZATION FOR COMMANDS, DIRECTORY AND FILE
NAMES IS CRITICAL. FOLLOW THE EXAMPLES CLOSELY.

*.noaa.gov sites are the only valid FTP sites for this server

This National Weather Service (NWS) FTPMAIL server is intended to allow Internet access for users who do not have direct access to the World Wide Web but who are equipped with an e-mail system. The service is free and no signup is required. Using FTPMAIL, users can request files from NWS and have them automatically e-mailed back to them. Turnaround is generally in under one hour, however, performance may vary widely and receipt cannot be guaranteed.

Although these instructions are tailored for marine users to gain access to graphic(radiofax) and text products via e-mail, all publicly available data on any *.noaa.gov Internet FTP server is accessible using the FTPMAIL server.

To use FTPMAIL, the user sends a small script file via e-mail to NWS requesting the desired file(s). An error message will be returned if the script file is in error.

Users should be familiar with sending and receiving messages and Attachments with their particular e-mail system. Attachments are received in UUencoded form. The majority of modern e-mail systems handle the conversion automatically, other users will need to run the UUdecode program for their particular system. See your system administrator if you have any questions on this topic. The UUencoding process can add 0 to >100% overhead depending on your system and the type of file.

Files sizes for NWS radiofax graphic files average 35KB. Users should be aware of the costs for operating their particular e-mail system before attempting to use FTPMAIL, especially when using satellite communication systems. For marine users, using FTPMAIL via INMARSAT-C for obtaining current NWS radiofax graphic files is cost prohibitive. Using the FTPMAIL compression feature of FTPMAIL is not recommended as these files are already in a compressed T4(G4) format enveloped in TIFF for viewing.

You will need a graphics program capable of displaying files in this format in order to view them. Suggestions for TIFF viewers may be found in file <http://weather.noaa.gov/fax/rfaxtif.txt>

NEW! Radiofax .TIF files now also available as (larger) .gif files

The following examples demonstrate the use of FTPMAIL. Indexes of currently available marine products, the list FTPMAIL commands, and suggestions for TIFF viewers may be obtained following these instructions.

To use FTPMAIL:

- o Send an e-mail via the Internet to: ftpmail@weather.noaa.gov
- o Put anything you like on the subject line
- o Enter a command script in the body of the message

NOTE: Correct capitalization for commands, directory and file names is critical

Example scripts are:

help

Connect to default_site (weather.noaa.gov) and send back this help file to e-mail address of requestor

```
open
cd fax
get PWAE98.TIF
quit
```

Connect to default_site (weather.noaa.gov) and send back the chart file PWAE98.TIF to e-mail address of requestor

```
reply-to captain.kidd@noaa.gov
open
dir
quit
```

Connect to default_site (weather.noaa.gov) and send back the contents of the top level directory to captain.kidd@noaa.gov

```
open
cd fax
get ftpcmd.txt      (List of FTPMAIL commands)
get rfaxtif.txt     (TIFF suggestions)
get rfaxatl.txt     (Atlantic radiofax file directory)
get rfaxpac.txt     (Pacific radiofax file directory)
get rfaxmex.txt     (Gulf of Mexico and Tropical Atlantic radiofax file dir)
get rfaxak.txt      (Alaska radiofax and ice file directory)
get rfaxhi.txt      (Hawaii radiofax file directory)
get marinel.txt     (Highseas,Offshore,Open Lakes,NAVTEX text file directory)
get marine2.txt     (Hurricane text file directory)
get marine3.txt     (Coastal forecasts text file directory)
get marine4.txt     (Offshore forecasts by zone directory)
get marine5.txt     (Atlantic coastal forecasts by zone directory)
get marine6.txt     (Pacific coastal forecasts by zone directory)
get marine7.txt     (Gulf of Mexico coastal forecasts by zone dir)
get marine8.txt     (Great Lakes coastal forecasts by zone directory)
get marine9.txt     (Alaska coastal forecasts by zone directory)
get marinel0.txt    (Hawaii&Trust coastal forecasts by zone directory)
get nhclist.txt     (NHC hurricane listserver instructions)
get uiuclist.txt    (UIUC hurricane listserver instructions)
quit
```

Connect to default_site (weather.noaa.gov) and send back the requested files to e-mail address of requestor.

Many, but not all National Weather Service forecast products may be obtained using FTPMAIL if the WMO Header is known as follows. Be aware that several NWS products share WMO headers so the desired forecast may be overwritten at times by another product.

Example:

To obtain the Atlantic high seas Forecast, WMO header FZNT01 KWBC

Send an e-mail to: ftpmail@weather.noaa.gov
Subject Line: Put anything you like
Body: open iwin.nws.noaa.gov
cd data
cd text
cd FZNT01
get KWBC.TXT
quit

*****SPECIAL NOTES*****

FTPMAIL problems are occasionally encountered when embedded control characters are received within the e-mail message received by the FTPMAIL server. These control characters may be introduced by the user's e-mail system and may be unavoidable. We are working to develop a version of FTPMAIL which parses these control characters.

Also be certain that each of your commands is not followed by any trailing space(s) or you will see an error message with a number of statements saying "=20"

Problems may also be encountered in trying to go down several levels of directories simultaneously, e.g. "cd data/forecasts/marine/test". Use a series of commands "cd data", "cd forecasts", "cd marine" instead.

In both these instances, the likely error will be "Directory not Found"

If the FTPMAIL server is too busy, you will receive an e-mail with a subject line similar to: "ftpmail job queuing for retry queue/097095.69568" Your request will be resubmitted automatically and your requested file(s) should be received within several hours.

If you have access to the World Wide Web be certain to check out the following webpages. See these pages for further links.

<http://www.nws.noaa.gov> NWS Homepage
<http://www.nws.noaa.gov/om/marine/home.htm> NWS Marine Page

A non-NWS FAQ webpage describing several public FTP-to-EMAIL and WWW-to-EMAIL servers may be found at:

<http://www.faqs.org/faqs/internet-services/access-via-email/>

Author: Timothy Rulon, Marine And Coastal Weather Services Branch W/OS21
National Weather Service
Last Modified October 03, 2001
Document URL: <http://weather.noaa.gov/pub/fax/ftpmail.txt>
<ftp://weather.noaa.gov/fax/ftpmail.txt>

FTPMAIL commands for ftpmail@weather.noaa.gov FTPMAIL server

FTP's files and sends them back via electronic mail

NOTE: *.noaa.gov are the only valid FTP sites for this FTPMAIL server.

To use FTPMAIL:

- o Send an E-mail via the Internet to ftpmail@weather.noaa.gov
- o Put anything you like on the subject line
- o Enter a command script in the body of the message

NOTE: Capitalization is critical for commands, file, and directory names

Example scripts are:

```
reply-to lmjm@server.big.ac.uk
open
dir
quit
```

Connect to default_site (weather.noaa.gov) and send back the contents of the top level directory to lmjm@server.big.ac.uk

```
open
cd fax
get PWAG01.TIF
quit
```

Connect to default_site (weather.noaa.gov) and send back the chart file PWAG01.TIF to e-mail address of requestor

NOTE: Capitalization is critical for this server. Commands are un-capitalized, while some directory and file names are CAPITALIZED, while others are un-capitalized.

>>Valid commands to the ftpmail gateway are:

reply-to email-address Who to send the response to. This is optional and defaults to the users email address

>>Followed by one of:

help Just send back help

delete jobid Delete the given job
(jobid is received from server)

open [site [user [pass]]] Site to ftp to. Default is:
default_site anonymous reply-to-address.

>>If there was an open then it can be followed by up to 100 of the
>>following commands

cd pathname Change directory.

ls [pathname] Short listing of pathname.
Default pathname is current directory.

dir [pathname] Long listing of pathname.
Default pathname is current directory.

get pathname Get a file and email it back.
 compress Compress files/dir-listings before emailing back
 gzip Gzip files/dir-listings before emailing back
 uuencode These are mutually exclusive options for
 btoa converting a binary file before emailing.
 (Default is uuencode.)
 force uuencode Force all files or directory listings to
 force btoa be encoded before sending back.
 There is no default.
 mime Send the message as a Mime Version 1.0 message.
 Text will be sent as text/plain charset=US-ASCII
 Non-text as application/octet-stream.
 If the file is split up then it will be sent
 as a message/partial.
 force mime As mime but force text files to be sent as
 application/octet-stream
 no [compress|gzip|uuencode|btoa|mime]
 Turn the option off.
 size num[K|M] Set the max size a file can be before it
 is split up and emailed back in parts to
 the given number of Kilo or Mega bytes.
 This is limited to 275KB. Default is 275KB.
 mode binary Change the mode selected for the get
 mode ascii command. Defaults to binary.
 quit End of input - ignore any following lines.

Author: Timothy Rulon, Office of Meteorology, National Weather Service
 Last Modified January 26, 2001
 Document URL: <http://weather.noaa.gov/pub/fax/ftpcmd.txt>
 <ftp://weather.noaa.gov/fax/ftpcmd.txt>

Suggested TIFF Viewers

The (G4)/TIFF format is used because the facsimile charts are in BLACK & WHITE and other encoding formats generate significantly larger files. The suggested TIFF viewers listed here are to help in your selection and have been found to work in viewing these charts in past testing. The viewers and sources listed imply no endorsement by the NWS.

Commercial Viewers for DOS/Windows 3.1

HyperFax.111 by Hypersoft	(603) 356-0210
Viewdirector by TMS, Inc.	(800) 944-7654
Imagehandler by LeadTools	(800) 637-4699
Keyview by FTP Software	(800) 242-4FTP
Snowview Platinum by Snowbound Software	(617) 630-9495

Shareware viewers for DOS/Windows 3.1

Paint Shop Pro 3.0 by Jasc, Inc. (612) 930-9171
Graphic Workshop v1.1p
VIDVUE v1.1 by L. Gozum
QuickView v1.2e (limited - can't rotate)

Shareware viewers for OS/2

PMJPEG
PMView v0.9

Shareware viewer for Apple/MAC

GraphicConverter 2.6

Author: Timothy Rulon, Office of Meteorology, National Weather Service
Last Modified Tuesday, 14-JAN-97, 10:17:34
Document URL: <http://tgs5.nws.noaa.gov/pub/fax/rfaxtif.txt>

NATIONAL WEATHER SERVICE RADIOFAX PRODUCTS
for the Western Atlantic Ocean

U.S. Coast Guard Communications Station NMF - Boston, Massachusetts

Assigned frequencies 4235.0, 6340.5, 9110, 12750 kHz

Select a carrier frequency 1.9 kHz below those listed when using a single sideband radio in the USB mode to receive these broadcasts.

The latest version of marine weather charts for broadcast by the U.S. Coast Guard are available from the National Weather Service Telecommunication Gateway on this server. The listed charts are in the G4(T4) format and enveloped in TIFF for viewing. These charts may be found in directory: <ftp://weather.noaa.gov/fax> or <http://weather.noaa.gov/pub/fax>

.TIF files now also available as .gif files

	FILE NAME
WIND/SEAS CHARTS	
12Z Sea State Analysis, 10E-95W Northern Hemisphere;	PJAA99.TIF
00Z Sea State Analysis, 45W-85W Northern Hemisphere;	PWAA88.TIF
12Z Sea State Analysis, 45W-85W Northern Hemisphere;	PWAA89.TIF
Sea State Analysis, (Most Current)	PWAA90.TIF
24HR Wind/Wave Chart VT00Z Forecast 45W-85W N. Hemisphere;	PWAE98.TIF
24HR Wind/Wave Chart VT12Z Forecast 45W-85W N. Hemisphere;	PWAE99.TIF
24HR Wind/Wave Chart Forecast (Most Current);	PWAE10.TIF
48HR Wind/Wave VT00Z Forecast 10E-95W Northern Hemisphere;	PJAI98.TIF
48HR Wind/Wave VT12Z Forecast 10E-95W Northern Hemisphere;	PJAI99.TIF
48HR Wind/Wave Chart Forecast (Most Current);	PJAI10.TIF
48HR Wave Period VT00Z Forecast 10E-95W Northern Hemisphere;	PJAI88.TIF
48HR Wave Period VT12Z Forecast 10E-95W Northern Hemisphere;	PJAI89.TIF
48HR Wave Period Chart Forecast (Most Current);	PJAI20.TIF
96HR Wind/Wave Chart VT00Z Forecast 10E-95W N. Hemisphere;	PJAM98.TIF
96HR Wave Period VT00Z Forecast 10E-95W N. Hemisphere;	PJAM88.TIF

SURFACE CHARTS

00Z Preliminary Surface Chart Analysis 45W-85W N. Hemisphere;	PYAA10.TIF
06Z Preliminary Surface Chart Analysis 45W-85W N. Hemisphere;	PYAB01.TIF
12Z Preliminary Surface Chart Analysis 45W-85W N. Hemisphere;	PYAC01.TIF
18Z Preliminary Surface Chart Analysis 45W-85W N. Hemisphere;	PYAD01.TIF
Preliminary Surface Chart Analysis (Most Current);	PYAD10.TIF
00Z Surface Analysis Chart, Part 1, 10E-45W N. Hemisphere;	PYAA01.TIF
00Z Surface Analysis Chart, Part 2, 40W-95W N. Hemisphere;	PYAA02.TIF
06Z Surface Analysis Chart, Part 1, 10E-45W N. Hemisphere;	PYAA03.TIF
06Z Surface Analysis Chart, Part 2, 40W-95W N. Hemisphere;	PYAA04.TIF
12Z Surface Analysis Chart, Part 1, 10E-45W N. Hemisphere;	PYAA05.TIF
12Z Surface Analysis Chart, Part 2, 40W-95W N. Hemisphere;	PYAA06.TIF
18Z Surface Analysis Chart, Part 1, 10E-45W N. Hemisphere;	PYAA07.TIF
18Z Surface Analysis Chart, Part 2, 40W-95W N. Hemisphere;	PYAA08.TIF
Surface Analysis Chart, Part 1, (Most Current);	PYAA11.TIF
Surface Analysis Chart, Part 2, (Most Current);	PYAA12.TIF
24HR Surface Chart VT00Z Forecast 45W-85W Northern Hemisphere;	PPAE00.TIF
24HR Surface Chart VT12Z Forecast 45W-85W Northern Hemisphere;	PPAE01.TIF
24HR Surface Chart Forecast (Most Current);	PPAE10.TIF
48HR Surface Chart VT00Z Forecast 10E-95W Northern Hemisphere;	QDTM85.TIF
48HR Surface Chart VT12Z Forecast 10E-95W Northern Hemisphere;	QDTM86.TIF
48HR Surface Chart Forecast (Most Current);	QDTM10.TIF
96HR Surface Chart VT00Z Forecast 10E-95W Northern Hemisphere;	PWAM99.TIF

UPPER AIR CHARTS

00Z 500MB Surface Chart Analysis 45W-85W Northern Hemisphere;	PPAA50.TIF
12Z 500MB Surface Chart Analysis 45W-85W Northern Hemisphere;	PPAA51.TIF
500MB Surface Chart Analysis (Most Current);	PPAA10.TIF
24HR 500MB Chart VT00Z Forecast 45W-85W Northern Hemisphere;	PPAE50.TIF
24HR 500MB Chart VT12Z Forecast 45W-85W Northern Hemisphere;	PPAE51.TIF
24HR 500MB Chart Forecast (Most Current);	PPAE11.TIF
36HR 500MB Chart VT00Z Forecast 45W-85W Northern Hemisphere;	PPAG50.TIF
36HR 500MB Chart VT12Z Forecast 45W-85W Northern Hemisphere;	PPAG51.TIF
36HR 500MB Chart Forecast (Most Current);	PPAG11.TIF
48HR 500MB Chart VT00Z Forecast 45W-85W Northern Hemisphere;	PPAI50.TIF
48HR 500MB Chart VT12Z Forecast 45W-85W Northern Hemisphere;	PPAI51.TIF
48HR 500MB Chart Forecast (Most Current);	PPAI10.TIF
96HR 500MB Chart VT00Z Forecast 45W-85W Northern Hemisphere;	PPAM50.TIF

SATELLITE IMAGERY

00Z GOES Infrared	evnt00.jpg
06Z GOES Infrared	evnt06.jpg
12Z GOES Infrared	evnt12.jpg
18Z GOES Infrared	evnt18.jpg
GOES Infrared (Most Current);	evnt99.jpg

ICE CHARTS

Ice Chart (When Available)	PIEA88.TIF
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(Ice chart normally not available on this server see:
<http://www.uscg.mil/lantarea/iip/home.html>)

SCHEDULE INFORMATION

Radiofax Schedule Part 1 (Boston, MA);	PLAZ01.TIF
Radiofax Schedule Part 2 (Boston, MA);	PLAZ02.TIF
Radiofax Schedule (DOS Text Version)	hfmarsh.txt
Request for Comments;	PLAZ03.TIF
Product Notice Bulletin;	PLAZ04.TIF
Test Pattern;	PZZZ94.TIF
Internet File Names; (This file)	rfaxatl.txt

Further information see: <http://www.nws.noaa.gov/om/marine/home.htm>

Author: Timothy Rulon, Office of Meteorology, National Weather Service
Last Modified August 29, 2000
Document URL: <http://weather.noaa.gov/pub/fax/rfaxatl.txt>
<ftp://weather.noaa.gov/fax/rfaxatl.txt>

NATIONAL WEATHER SERVICE RADIOFAX PRODUCTS
for the Eastern Pacific Ocean

U.S. Coast Guard Communications Station NMC - Point Reyes, CA

Assigned frequencies 4346, 8682, 12730, 17151.2, 22527 kHz

Select a carrier frequency 1.9 kHz below those listed when using a single sideband radio in the USB mode to receive these broadcasts.

The latest version of marine weather charts for broadcast by the U.S. Coast Guard are available from the National Weather Service Telecommunication Gateway on this server. The listed charts are in the G4(T4) format and enveloped in TIFF for viewing. Satellite images are in JPEG format. These charts may be found in directory: <ftp://weather.noaa.gov/fax> or <http://weather.noaa.gov/pub/fax>

.TIF files now also available as .gif files

	FILE NAME
WIND/WAVE CHARTS	
00Z Sea State Analysis 20N-70N, 115W-135E	PJBA99.TIF
00Z Sea State Analysis 25N-60N, E OF 155W	PWBA88.TIF
12Z Sea State Analysis 25N-60N, E OF 155W	PWBA89.TIF
Sea State Analysis 25N-60N, E OF 155W (Most Current)	PWBA90.TIF
24HR Wind/Wave Forecast VT00Z 25N-60N, E of 155W	PWBE98.TIF
24HR Wind/Wave Forecast VT12Z 25N-60N, E of 155W	PWBE99.TIF
24HR Wind/Wave Forecast (Most Current)	PWBE10.TIF
48HR Wind/Wave Forecast VT00Z 20N-70N, 115W-135E	PJBI98.TIF
48HR Wind/Wave Forecast VT12Z 20N-70N, 115W-135E	PJBI99.TIF
48HR Wind Wave Forecast (Most Current)	PJBI10.TIF
48HR Wave Period/Swell Direction VT00Z 20N-70N, 115W-135E	PJBI88.TIF
48HR Wave Period/Swell Direction VT12Z 20N-70N, 115W-135E	PJBI89.TIF
48HR Wave Period/Swell Direction (Most Current)	PJBI20.TIF
96HR Wind/Wave Forecast VT00Z 20N-70N, 115W-135E	PJBM98.TIF
96HR Wave Period/Swell Direction VT00Z 20N-70N, 115W-135E	PJBM88.TIF

TROPICAL WIND/WAVE CHARTS

0/24HR Wind/Wave Forecasts(2 Charts) VT00Z 30N-20S, E of 145W	PWFA88.TIF
0/24HR Wind/Wave Forecasts(2 Charts) VT06Z 30N-20S, E of 145W	PWFA89.TIF
0/24HR Wind/Wave Forecasts(2 Charts) VT12Z 30N-20S, E of 145W	PJBA00.TIF
0/24HR Wind/Wave Forecasts(2 Charts) VT18Z 30N-20S, E of 145W	PJBA01.TIF
0/24HR Wind/Wave Forecasts(Most Current)	PJBA90.TIF
48HR Wind/Wave Forecast VT00Z 30N-20S, E of 145W	PWFI88.TIF
48HR Wave Period/Swell Direction VT12Z 30N-20S, E of 145W	PJFI88.TIF
48/72HR Wave Period/Swell Direction VT00Z 30N-20S,E of 145W	PJFK88.TIF
48/72HR Wind/Wave Forecast VT12Z 30N-20S, E of 145W	PWFI89.TIF

SURFACE CHARTS

00Z Surface Analysis NE Pacific (Part 1) 20N-70W, 115W-175W	PYBA01.TIF
00Z Surface Analysis NW Pacific (Part 2) 20N-70W, 175W-135E	PYBA02.TIF
06Z Surface Analysis NE Pacific (Part 1) 20N-70W, 115W-175W	PYBA03.TIF
06Z Surface Analysis NW Pacific (Part 2) 20N-70W, 175W-135E	PYBA04.TIF
12Z Surface Analysis NE Pacific (Part 1) 20N-70W, 115W-175W	PYBA05.TIF
12Z Surface Analysis NW Pacific (Part 2) 20N-70W, 175W-135E	PYBA06.TIF
18Z Surface Analysis NE Pacific (Part 1) 20N-70W, 115W-175W	PYBA07.TIF
18Z Surface Analysis NW Pacific (Part 2) 20N-70W, 175W-135E	PYBA08.TIF
Surface Analysis, Part 1 (Most Current)	PYBA11.TIF
Surface Analysis, Part 2 (Most Current)	PYBA12.TIF
24HR Surface Forecast VT00Z Forecast 25N-60W, E of 155W	PPBE00.TIF
24HR Surface Forecast VT12Z Forecast 25N-60W, E of 155W	PPBE01.TIF
24HR Surface Forecast (Most Current)	PPBE10.TIF
48HR Surface Forecast VT00Z 20N-70W, 115W-135E	PWBI98.TIF
48HR Surface Forecast VT12Z 20N-70W, 115W-135E	PWBI99.TIF

48HR Surface Forecast (Most Current) PWBI10.TIF
96HR Surface Forecast VT00Z 20N-70W, 115W-135E PWBM99.TIF

UPPER AIR CHARTS

00Z 500 MB Analysis 20N-70N 115W-135E PPBA50.TIF
12Z 500 MB Analysis 20N-70N, 115W-135E PPBA51.TIF
500 MB Analysis (Most Current) PPBA10.TIF
48HR 500 MB Forecast VT00Z 20N-70N, 115W-135E PPBI50.TIF
48HR 500 MB Forecast VT12Z 20N-70N, 115W-135E PPBI51.TIF
48HR 500 MB Forecast (Most Current) PPBI10.TIF
96HR 500 MB VT00Z 20N-70N, 115W-135E PPBM50.TIF

TROPICAL SURFACE CHARTS

00Z Tropical Surface Analysis 30N-20S, E of 145W PYFA96.TIF
06Z Tropical Surface Analysis 30N-20S, E of 145W PYFA97.TIF
12Z Tropical Surface Analysis 30N-20S, E of 145W PYFA98.TIF
18Z Tropical Surface Analysis 30N-20S, E of 145W PYFA99.TIF
Tropical Surface Analysis Most Current PYFA90.TIF

TROPICAL CYCLONE CHARTS

72 HR Tropical Cyclone Danger Area VT 03Z 0N-40N, 80W-180W PWFK88.TIF
72 HR Tropical Cyclone Danger Area VT 09Z 0N-40N, 80W-180W PWFK89.TIF
72 HR Tropical Cyclone Danger Area VT 15Z 0N-40N, 80W-180W PWFK90.TIF
72 HR Tropical Cyclone Danger Area VT 21Z 0N-40N, 80W-180W PWFK91.TIF
72 HR Tropical Cyclone Danger Area (Most Current) PWFK11.TIF

Note: Tropical Cyclone Danger Area chart replaced by High Wind/Wave Warning chart Dec 01 - May 14.

SEA SURFACE TEMPERATURES

Pacific SST Chart 40N-53N, E of 136W PTBA88.TIF
Pacific SST Chart 23N-42N, E of 136W PTBA89.TIF

SATELLITE IMAGERY

00Z GOES IR Satellite Image, East Pacific evpn00.jpg
06Z GOES IR Satellite Image, East Pacific evpn07.jpg
12Z GOES IR Satellite Image, East Pacific evpn13.jpg
GOES IR Satellite Image, East Pacific (MOST CURRENT) evpn98.jpg
00Z GOES IR Satellite Image, Pacific evpn01.jpg
06Z GOES IR Satellite Image, Pacific evpn06.jpg
12Z GOES IR Satellite Image, Pacific evpn12.jpg
18Z GOES IR Satellite Image, Pacific evpn18.jpg
GOES IR Satellite Image, Pacific (MOST CURRENT) evpn99.jpg

SCHEDULE INFORMATION

Radiofax Schedule Part 1 (Point Reyes, CA) PLBZ01.TIF
Radiofax Schedule Part 2 (Point Reyes, CA) PLBZ02.TIF
Radiofax Schedule (DOS Text Format) hfreyes.txt
Request for Comments PLBZ03.TIF
Product Notice Bulletin PLBZ04.TIF
Test Pattern PZZZ93.TIF
Internet File Names (This file) rfaxpac.txt

Further information see: <http://www.nws.noaa.gov/om/marine/home.htm>

Author: Tim Rulon, NWS Marine And Coastal Weather Services Branch W/OS21
Last Modified October 25, 2001
Document URL: <http://weather.noaa.gov/pub/fax/rfaxpac.txt>
<ftp://weather.noaa.gov/fax/rfaxpac.txt>

NATIONAL WEATHER SERVICE RADIOFAX PRODUCTS

for the Gulf of Mexico and Tropical Atlantic

U.S. Coast Guard Communications Station NMG - New Orleans, Louisiana

Assigned frequencies 4317.9, 8503.9 12789.9 kHz

Select a carrier frequency 1.9 kHz below those listed when using a single sideband radio in the USB mode to receive these broadcasts.

The latest version of marine weather charts for broadcast by the U.S. Coast Guard are available from the National Weather Service Telecommunication Gateway on this server. The listed charts are in the G4(T4) format and enveloped in TIFF for viewing. These charts may be found in directory: ftp://weather.noaa.gov/fax or http://weather.noaa.gov/pub/fax

.TIF files now also available as .gif files

	FILE NAME
WIND/WAVE CHARTS	
00Z Sea State Analysis, 5N-31N, 35W-100W;	PJEA88.TIF
06Z Sea State Analysis, 5N-31N, 35W-100W;	PJEA89.TIF
12Z Sea State Analysis, 5N-31N, 35W-100W;	PJEA90.TIF
18Z Sea State Analysis, 5N-31N, 35W-100W;	PJEA91.TIF
Sea State Analysis (Most Current);	PJEA11.TIF
24HR Wind/Wave Forecast VT00, 5N-31N, 35W-100W;	PWEE89.TIF
24HR Wind/Wave Forecast VT06, 5N-31N, 35W-100W;	PWEE90.TIF
24HR Wind/Wave Forecast VT12, 5N-31N, 35W-100W;	PWEE91.TIF
24HR Wind/Wave Forecast VT18, 5N-31N, 35W-100W;	PWEE92.TIF
24HR Wind/Wave Forecast (Most Current);	PWEE11.TIF
48HR Wind/Wave Forecast VT00, 5N-31N, 35W-100W;	PWEI88.TIF
48HR Wind/Wave Forecast VT12, 5N-31N, 35W-100W;	PWEI89.TIF
48HR Wind/Wave Forecast (Most Current);	PWEI11.TIF
48HR Wave Period/Swell Dir Forecast VT06, 5N-31N, 35W-100W;	PJEI88.TIF
48HR Wave Period/Swell Dir Forecast VT18, 5N-31N, 35W-100W;	PJEI89.TIF
48HR Wave Period/Swell Direction Forecast (Most Current);	PJEI11.TIF
72HR Wind/Wave Forecast VT00, 5N-31N, 35W-100W;	PJEK88.TIF
72HR Wind/Wave Forecast VT12, 5N-31N, 35W-100W;	PJEK89.TIF
72HR Wind/Wave Forecast (Most Current);	PJEK11.TIF
72HR Wave Period/Swell Dir Forecast VT00, 5N-31N, 35W-100W;	PKEK88.TIF

SURFACE CHARTS

00Z U.S./Tropical Surface Analysis (W Half) 5S-50N,65W-125W;	PYEB86.TIF
06Z U.S./Tropical Surface Analysis (W Half) 5S-50N,65W-125W;	PYEB87.TIF
12Z U.S./Tropical Surface Analysis (W Half) 5S-50N,65W-125W;	PYEB85.TIF
18Z U.S./Tropical Surface Analysis (W Half) 5S-50N,65W-125W;	PYEB88.TIF
U.S./Tropical Surface Analysis (W Half) (Most Current);	PYEB11.TIF
00Z Tropical Surface Analysis (E Half) 5S-40N, 0W-70W;	PYEA86.TIF
06Z Tropical Surface Analysis (E Half) 5S-40N, 0W-70W;	PYEA87.TIF
12Z Tropical Surface Analysis (E Half) 5S-40N, 0W-70W;	PYEA85.TIF
18Z Tropical Surface Analysis (E Half) 5S-40N, 0W-70W;	PYEA88.TIF
Tropical Surface Analysis (E Half) (Most Current);	PYEA11.TIF

TROPICAL CYCLONE CHARTS

Tropical Cyclone Danger Area* VT03, 12S-44N, 28W-112W;	PWEK89.TIF
Tropical Cyclone Danger Area* VT09, 12S-44N, 28W-112W;	PWEK90.TIF
Tropical Cyclone Danger Area* VT15, 12S-44N, 28W-112W;	PWEK91.TIF

Tropical Cyclone Danger Area* VT21, 12S-44N, 28W-112W; PWEK88.TIF
Tropical Cyclone Danger Area* (Most Current); PWEK11.TIF

HIGH SEAS FORECASTS

"
"
04Z High Seas Forecast 7N-31N, 35W-98W, In English; PLEA86.TIF
"
10Z High Seas Forecast 7N-31N, 35W-98W, In English; PLEA87.TIF
"
16Z High Seas Forecast 7N-31N, 35W-98W, In English; PLEA89.TIF
22Z High Seas Forecast 7N-31N, 35W-98W, In English; PLEA88.TIF
High Seas Forecast (Most Current); PLEA10.TIF

SATELLITE IMAGERY

0645Z GOES IR Satellite Image, 12S-44N, 28W-112W; evst06.jpg
1145Z GOES IR Satellite Image, 12S-44N, 28W-112W; evst12.jpg
1745Z GOES IR Satellite Image, 12S-44N, 28W-112W; evst18.jpg
2345Z GOES IR Satellite Image, 12S-44N, 28W-112W; evst00.jpg
GOES IR Satellite Image (Most Current); evst99.jpg

SCHEDULE INFORMATION

Radiofax Schedule (New Orleans, LA); PLEZ01.TIF
Radiofax Schedule (DOS Text Format); hfgulf.txt
Request for Comments; PLEZ02.TIF
Product Notice Bulletin; PLEZ03.TIF
Test Chart; PZZZ95.TIF
Internet File Names, (This file); rfaxmex.txt

* Tropical Cyclone Danger Area chart replaced by High Wind/Wave Warning
chart Dec 01 - May 31, valid times 00z, 06z, 12z and 18z,
05N - 60N, 0W - 100W

Further information see: <http://www.nws.noaa.gov/om/marine/home.htm>

Author: Tim Rulon, NWS Marine And Coastal Weather Services Branch, W/OS21
Last Modified December 03, 2001
Planned effective date December 04, 01 1800z
Document URL: <http://weather.noaa.gov/pub/fax/rfaxmex.txt>

NATIONAL WEATHER SERVICE RADIOFAX PRODUCTS
for Alaskan Waters

U.S. Coast Guard Communications Station NOJ - Kodiak, Alaska

Assigned frequencies 2054, 4298, 8459, 12412.5 kHz

Select a carrier frequency 1.9 kHz below those listed when using a single sideband radio in the USB mode to receive these broadcasts.

The latest version of marine weather charts for broadcast by the U.S. Coast Guard are available from the National Weather Service. These charts may be found in directories:

ftp://weather.noaa.gov/fax

or

ftp://inetsrv.arh.noaa.gov/pub/marfax/ (for files indicated by *)

.TIF files now also available as .gif files

PAY ATTENTION TO CAPITALIZATION:

Example using FTPMAIL:

```
Send an e-mail to:      ftpmail@weather.noaa.gov
Subject line:           Put anything you like
Body:                   open inetsrv.arh.noaa.gov
                        cd pub
                        cd marfax
                        get mar36.gif
                        get martab.gif
                        get sfcmap00.gif
                        quit
```

	FILE NAME
WIND/SEAS CHARTS	
48HR Wind/Wave Forecast VT12Z	PJBI99.TIF
SURFACE CHARTS	
00Z Surface Analysis;	sfcmap00.gif*
06Z Surface Analysis;	sfcmap06.gif*
12Z Surface Analysis;	sfcmap12.gif*
18Z Surface Analysis;	sfcmap18.gif*
Surface Analysis (Most Current);	PYPA00.TIF**
36HR Surface Chart VT00Z Forecast;	Not Available
36HR Surface Chart VT12Z Forecast;	Not Available
36HR Surface Chart Forecast (Most Current);	mar36.gif*
48HR Surface Chart Forecast VT00Z (not xmitted via radiofax)	PWBI99.TIF
48HR Surface Chart Forecast VT12Z	PWBI98.TIF
48HR Surface Chart Forecast (Most Current);	PWBI10.TIF
96HR Surface Chart Forecast VT12Z	PWBM99.TIF
ICE CHARTS	
Sea Ice Ananlysis	ICE.GIF
5 Day Sea Ice Forecast	ICEF.GIF
Cook Inlet Sea Ice Analysis (not xmitted via radiofax);	COOKICE.GIF

OTHER PRODUCTS

AK Coastal Forecast Tables	martab.gif*
Sea Surface Temperature Analysis	sst.gif*
Radiofacsimile Symbols and Contractions	symbol.gif*

SCHEDULE INFORMATION

Radiofax Schedule Kodiak, AK;	sched.gif*
Radiofax Schedule (DOS Text Version)	hfak.txt
Test Pattern;	Not Available
Internet File Names; (This file)	rfaxak.txt

** Covers larger area than on-air broadcast

Further information see: <http://www.nws.noaa.gov/om/marine/home.htm>

Author: Timothy Rulon, Office of Meteorology, National Weather Service
Last Modified May 24, 2001
Document URL: <http://weather.noaa.gov/pub/fax/rfaxak.txt>
<ftp://weather.noaa.gov/fax/rfaxak.txt>

NATIONAL WEATHER SERVICE RADIOFAX PRODUCTS
for the Central Pacific

NAVY Communications Station KVM-70 - Honolulu, Hawaii

Assigned frequencies 9982.5, 11090, 16135 and 23331.5 kHz

Select a carrier frequency 1.9 kHz below those listed when using a single sideband radio in the USB mode to receive these broadcasts.

The latest version of NWS marine weather charts for broadcast by the NAVY are available from the National Weather Service Telecommunication Gateway on this server. The listed charts are in the G4(T4) format and enveloped in TIFF for viewing. These charts may be found in directory: <ftp://weather.noaa.gov/fax> or <http://weather.noaa.gov/pub/fax>

.TIF files now also available as .gif files

xxxxxxx (Not yet available from these directories)

	FILE NAME
WIND/WAVE CHARTS	
0/24HR Wind/Wave Forecasts(2 Charts) VT00Z 30N-20S, 145W-80W	PWFA88.TIF
0/24HR Wind/Wave Forecasts(2 Charts) VT06Z 30N-20S, 145W-80W	PWFA89.TIF
0/24HR Wind/Wave Forecasts(2 Charts) VT12Z 30N-20S, 145W-80W	PJBA00.TIF
0/24HR Wind/Wave Forecasts(2 Charts) VT18Z 30N-20S, 145W-80W	PJBA01.TIF
0/24HR Wind/Wave Forecasts(Most Current);	PJBA90.TIF
24HR Wind/Wave Forecast VT00Z 60N-35S, 110W-130E;	QWBI99.TIF
48HR Winds/Wave Forecast VT00Z 60N-35S, 110W-130E;	QWBQ99.TIF
48HR Tropical Wind/Wave Forecast VT00Z 30N-20S, 145W-80W;	PWFI88.TIF
48HR Tropical Wave Period/Swell Dir VT12Z 30N-20S, 145W-80W;	PJFI88.TIF
48/72HR Tropical Wave Period/Swell Dir VT00Z 30N-20S, 145W-80W;	PJFK88.TIF
48/72HR Tropical Wind/Wave Forecast VT12Z 30N-20S, 145W-80W;	PWFI89.TIF
SURFACE CHARTS	
00Z Pacific Surface Analysis 50N-30S, 110W-130E;	xxxxxxx.TIF
06Z Pacific Surface Analysis 50N-30S, 110W-130E;	xxxxxxx.TIF
12Z Pacific Surface Analysis 50N-30S, 110W-130E;	xxxxxxx.TIF
18Z Pacific Surface Analysis 50N-30S, 110W-130E;	xxxxxxx.TIF
Pacific Surface Analysis (Most Current);	xxxxxxx.TIF
00Z Tropical Streamline Analysis 30N-30S, 110W-130E;	xxxxxxx.TIF
06Z Tropical Streamline Analysis 30N-30S, 110W-130E;	xxxxxxx.TIF
12Z Tropical Streamline Analysis 30N-30S, 110W-130E;	xxxxxxx.TIF
18Z Tropical Streamline Analysis 30N-30S, 110W-130E;	xxxxxxx.TIF
Tropical Streamline Analysis (Most Current);	xxxxxxx.TIF
00Z North Pacific Pressure Analysis 50N-EQ, 110W-130E;	xxxxxxx.TIF
06Z North Pacific Pressure Analysis 50N-EQ, 110W-130E;	xxxxxxx.TIF
12Z North Pacific Pressure Analysis 50N-EQ, 110W-130E;	xxxxxxx.TIF
18Z North Pacific Pressure Analysis 50N-EQ, 110W-130E;	xxxxxxx.TIF
North Pacific Pressure Analysis (Most Current);	xxxxxxx.TIF
00Z Tropical Surface Analysis 40N-40S, 105W-120E;	xxxxxxx.TIF
06Z Tropical Surface Analysis 40N-40S, 105W-120E;	xxxxxxx.TIF
12Z Tropical Surface Analysis 40N-40S, 105W-120E;	xxxxxxx.TIF
18Z Tropical Surface Analysis 40N-40S, 105W-120E;	xxxxxxx.TIF
Tropical Surface Analysis (Most Current)	QYFA99.TIF
00Z Significant Cloud Features 50N-30S, 110W-160E;	xxxxxxx.TIF
12Z Significant Cloud Features 50N-30S, 110W-160E;	xxxxxxx.TIF
Significant Cloud Features (Most Current);	xxxxxxx.TIF
24HR Wind/Stream Forecast VT00Z 50N-30S, 100W-120E;	QWFI99.TIF
48HR Wind/Stream Forecast VT00Z 50N-30S, 100W-120E;	QWFO99.TIF
48HR Surface Forecast VT06Z 60N-55S, 55W-70E;	xxxxxxx.TIF
48HR Surface Forecast VT18Z 60N-55S, 55W-70E;	xxxxxxx.TIF

48HR Surface Forecast (Most Current); QDEQ99.TIF

UPPER AIR CHARTS

48HR 500MB Chart VT00Z 50N-25S, 120W-120E; xxxxxx.TIF
48HR 500MB Chart VT12Z 50N-25S, 120W-120E; xxxxxx.TIF
48HR 500MB Chart Forecast (Most Current); QHFQ50.TIF

SATELLITE IMAGERY

00Z Eastern Pacific Satellite Image (IR)55N-40S, 105W-155E; xxxxxx.jpg
06Z Eastern Pacific Satellite Image (IR)55N-40S, 105W-155E; xxxxxx.jpg
12Z Eastern Pacific Satellite Image (IR)55N-40S, 105W-155E; xxxxxx.jpg
18Z Eastern Pacific Satellite Image (IR)55N-40S, 105W-155E; xxxxxx.jpg
Eastern Pacific Satellite Image (Most Current); xxxxxx.jpg
00Z Southern Pacific Satellite Image (IR) 05N-40S, 130W-165E; xxxxxx.jpg
06Z Southern Pacific Satellite Image (IR) 05N-40S, 130W-165E; xxxxxx.jpg
12Z Southern Pacific Satellite Image (IR) 05N-40S, 130W-165E; xxxxxx.jpg
18Z Southern Pacific Satellite Image (IR) 05N-40S, 130W-165E; xxxxxx.jpg
Southern Pacific Satellite Image (Most Current); xxxxxx.jpg

SEA SURFACE TEMPERATURE CHARTS

Pacific Sea Surface Temperature (VT Tuesday and Thursday); xxxxxx.TIF

SCHEDULE INFORMATION

Radiofax Schedule (Honolulu, HI); xxxxxx.TIF
Radiofax Schedule (DOS Text Version) hfhi.txt
Test/Map Symbols/General Notice; xxxxxxxx.TIF
Internet File Names; (This file) rfaxhi.txt

Further information see: <http://www.nws.noaa.gov/om/marine/home.htm>

Author: Timothy Rulon, NWS Marine And Coastal Weather Services Branch W/OS21
National Weather Service

Last Modified December 17, 2001

Document URL: <http://weather.noaa.gov/pub/fax/rfaxhi.txt>

<ftp://weather.noaa.gov/fax/rfaxhi.txt>

NATIONAL WEATHER SERVICE MARINE TEXT PRODUCTS

HIGHSEAS, OFFSHORE, NAVTEX, and OPEN LAKE PRODUCTS

This file is intended to assist mariners using the FTPMAIL system which is used to obtain National Weather Service products via e-mail. The following is an example in the use of the FTPMAIL system. NOTE CAPITALIZATION!

Send an e-mail to: ftpmail@weather.noaa.gov
Subject Line: Put anything you like
Body: open
cd data
cd forecasts
cd marine
cd high_seas
get north_pacific.txt
get north_atlantic.txt
quit

The "help" file contains a more detailed description of the FTPMAIL system and available products. To obtain a copy of the FTPMAIL "help file".

Send an e-mail to: ftpmail@weather.noaa.gov
Subject Line: Put anything you like
Body: help

HIGH SEAS FORECASTS

These files may be found in directory:
ftp://weather.noaa.gov/data/forecasts/marine/high_seas/

PRODUCT DESCRIPTION	FILE NAME
Northwest Atlantic Highseas (GMDSS Area IV)	north_atlantic.txt
Northeast Pacific Highseas (GMDSS Area XII)	north_pacific.txt
Peru Highseas (GMDSS Area XVI)	east_pacific_3.txt
25S-0N, 160E-120W South Central Pacific	south_hawaii.txt
30-60N, east of 160 E (p/o NE Pacific)	east_pacific_1.txt
0-30N, E of 140W (p/o NE Pacific)	east_pacific_2.txt
0-30N, 160E-140W (p/o NE Pacific)	north_hawaii.txt

OFFSHORE FORECASTS

For offshore forecasts, NAVTEX forecasts also be utilized where available which are nearly identical and may contain supplementary information at times for coastal areas.

These files may be found in directory:
ftp://iwin.nws.noaa.gov/data/text/FZNT21 (FZNT22, etc)
or
ftp://iwin2.nws.noaa.gov/data/text/FZNT21 (FZNT22, etc)

Example:
Send an e-mail to: ftpmail@weather.noaa.gov
Subject Line: Put anything you like
Body: open iwin.nws.noaa.gov
cd data
cd text
cd FZNT21
get KWBC.TXT
quit

PRODUCT DESCRIPTION	FILE NAME
New England	/FZNT21/KWBC.TXT
Mid-Atlantic	/FZNT22/KWBC.TXT
SW North Atlantic, Caribbean	/FZNT23/KNHC.TXT
Gulf of Mexico	/FZNT24/KNHC.TXT
Washington, Oregon	/FZPN25/KWBC.TXT
California	/FZPN26/KWBC.TXT
Alaska	/FZPN01/PANC.TXT
Hawaii	/FZHW50/PHFO.TXT

NAVTEX FORECASTS

These files may be found in directory:

ftp://weather.noaa.gov/data/forecasts/marine/offshore/

Example:

```

Send an e-mail to:      ftpmail@weather.noaa.gov
Subject Line:          Put anything you like
Body:                  open
                       cd data
                       cd forecasts
                       cd marine
                       cd offshore
                       get fznt23.kwnm.off.n01.txt
                       quit

```

PRODUCT DESCRIPTION	FILE NAME
NAVTEX Boston, MA	fznt23.kwnm.off.n01.txt
NAVTEX Chesapeake, VA	fznt24.kwnm.off.n02.txt
NAVTEX Savannah, GA	fznt25.kwnm.off.n03.txt
NAVTEX Miami, FL	fznt25.knhc.off.n04.txt
NAVTEX San Juan, PR	fznt26.knhc.off.n05.txt
NAVTEX New Orleans, LA	fznt27.knhc.off.n06.txt
NAVTEX Astoria, OR	fzpn24.kwnm.off.n09.txt
NAVTEX Pt. Reyes, CA	fzpn23.kwnm.off.n08.txt
NAVTEX Cambria, CA	fzpn22.kwnm.off.n07.txt

OPEN LAKE FORECASTS

These files may be found in directory:

ftp://weather.noaa.gov/data/raw/fz/

Example:

```

Send an e-mail to:      ftpmail@weather.noaa.gov
Subject Line:          Put anything you like
Body:                  open
                       cd data
                       cd raw
                       cd fz
                       get fzus61.kbuf.glf.sl.txt
                       quit

```

PRODUCT DESCRIPTION	FILE NAME
St. Lawrence	fzus61.kbuf.glf.sl.txt
Lake Ontario	fzus61.kbuf.glf.lo.txt
Lake Erie	fzus61.kcle.glf.le.txt
Lake St. Clair	fzus63.kdtx.glf.sc.txt
Lake Huron	fzus63.kdtx.glf.lh.txt
Lake Michigan	fzus63.klot.glf.lm.txt
Lake Superior	fzus63.kmqt.glf.ls.txt

Author: Timothy Rulon, Office of Meteorology,
National Weather Service

Last Modified August 07, 2001

Document URL: <http://weather.noaa.gov/pub/fax/marinel.txt>
<ftp://weather.noaa.gov/fax/marinel.txt>

NATIONAL WEATHER SERVICE MARINE TEXT PRODUCTS
HURRICANE PRODUCTS
(This document under construction)

This file is intended to assist mariners using the FTPMAIL system which is used to obtain National Weather Service products via e-mail. The following is an example in the use of the FTPMAIL system. NOTE CAPITALIZATION!

Send an e-mail to: ftpmail@weather.noaa.gov
Subject Line: Put anything you like
Body: open
cd data
cd hurricane_products
cd atlantic
cd weather
get outlook.txt
cd /data
cd hurricane_products
cd atlantic
cd storm_2
get technical_advisory.txt
quit

The "help" file contains a more detailed description of the FTPMAIL system and available products. To obtain a copy of the FTPMAIL "help file".

Send an e-mail to: ftpmail@weather.noaa.gov
Subject Line: Put anything you like
Body: help

ATLANTIC HURRICANE PRODUCTS

These files may be found in directory:
ftp://weather.noaa.gov/data/hurricane_products/atlantic

PRODUCT DESCRIPTION	FILE NAME
Tropical WX Outlook	/weather/outlook.txt
Tropical WX Discussion	/weather/discussion.txt
Tropical WX Summary	/weather/summary.txt
Tropical WX Disturbance Stmt	/weather/advisory.txt
Tropical Cyclone Updates	TBD
Tropical Cyclone Positions	TBD
Tropical Cyclone Discussion (Storm #1)	/storm_1/discussion.txt
Tropical Cyclone Discussion (Storm #2)	/storm_2/discussion.txt
Tropical Cyclone Discussion (Storm #3)	/storm_3/discussion.txt
Tropical Cyclone Discussion (Storm #4)	/storm_4/discussion.txt
Tropical Cyclone Discussion (Storm #5)	/storm_5/discussion.txt
Public Advisory (Storm #1)	/storm_1/advisory.txt
Public Advisory (Storm #2)	/storm_2/advisory.txt
Public Advisory (Storm #3)	/storm_3/advisory.txt
Public Advisory (Storm #4)	/storm_4/advisory.txt
Public Advisory (Storm #5)	/storm_5/advisory.txt
Tropical Depression Forecast (Storm #1)	/storm_1/technical_advisory.txt
Tropical Depression Forecast (Storm #2)	/storm_2/technical_advisory.txt
Tropical Depression Forecast (Storm #3)	/storm_3/technical_advisory.txt
Tropical Depression Forecast (Storm #4)	/storm_4/technical_advisory.txt
Tropical Depression Forecast (Storm #5)	/storm_5/technical_advisory.txt
Hurricane Probabilities (Storm #1)	/storm_1/strike_probability.txt
Hurricane Probabilities (Storm #2)	/storm_2/strike_probability.txt
Hurricane Probabilities (Storm #3)	/storm_3/strike_probability.txt
Hurricane Probabilities (Storm #4)	/storm_4/strike_probability.txt
Hurricane Probabilities (Storm #5)	/storm_5/strike_probability.txt

RECON Plan

TBD

Atlantic Tropical Weather Outlook normally issued 0300z, 0900z, 1500z and 2100z during hurricane season, June 1 - November 30. Remaining products issued when active systems exist. May be issued at 3-hourly intervals and other unscheduled times as system approaches landfall.

EASTERN PACIFIC HURRICANE PRODUCTS

These files may be found in directory:

ftp://weather.noaa.gov/data/hurricane_products/eastern_pacific

PRODUCT DESCRIPTION	FILE NAME
Tropical WX Outlook	/weather/outlook.txt
Tropical WX Discussion	/weather/discussion.txt
Tropical WX Summary	/weather/summary.txt
Tropical WX Disturbance Stmt	/weather/advisory.txt
Tropical Cyclone Updates	/weather/update.txt
Tropical Cyclone Positions	TBD
Tropical Cyclone Discussion (Storm #1)	/storm_1/discussion.txt
Tropical Cyclone Discussion (Storm #2)	/storm_2/discussion.txt
Tropical Cyclone Discussion (Storm #3)	/storm_3/discussion.txt
Tropical Cyclone Discussion (Storm #4)	/storm_4/discussion.txt
Tropical Cyclone Discussion (Storm #5)	/storm_5/discussion.txt
Public Advisory (Storm #1)	/storm_1/advisory.txt
Public Advisory (Storm #2)	/storm_2/advisory.txt
Public Advisory (Storm #3)	/storm_3/advisory.txt
Public Advisory (Storm #4)	/storm_4/advisory.txt
Public Advisory (Storm #5)	/storm_5/advisory.txt
Tropical Depression Forecast (Storm #1)	/storm_1/technical_advisory.txt
Tropical Depression Forecast (Storm #2)	/storm_2/technical_advisory.txt
Tropical Depression Forecast (Storm #3)	/storm_3/technical_advisory.txt
Tropical Depression Forecast (Storm #4)	/storm_4/technical_advisory.txt
Tropical Depression Forecast (Storm #5)	/storm_5/technical_advisory.txt
RECON Plan	TBD

Eastern Pacific Tropical Weather Outlook normally issued 0300z, 0900z, 1500z and 2100z during hurricane season, May 15 - November 30. Remaining products issued when active systems exist. May be issued at 3-hourly intervals and other unscheduled times as system approaches landfall.

CENTRAL PACIFIC HURRICANE PRODUCTS

These files may be found in directory:

ftp://weather.noaa.gov/data/hurricane_products/central_pacific

PRODUCT DESCRIPTION	FILE NAME
Tropical WX Outlook	/weather/outlook.txt
Tropical WX Discussion	/weather/discussion.txt
Tropical WX Summary	/weather/summary.txt
Tropical WX Disturbance Stmt	/weather/advisory.txt
Tropical Cyclone Updates	/weather/update.txt
Tropical Cyclone Discussion (Storm #1)	/storm_1/discussion.txt
Tropical Cyclone Discussion (Storm #2)	/storm_2/discussion.txt
Tropical Cyclone Discussion (Storm #3)	/storm_3/discussion.txt
Tropical Cyclone Discussion (Storm #4)	/storm_4/discussion.txt
Tropical Cyclone Discussion (Storm #5)	/storm_5/discussion.txt
Public Advisory (Storm #1)	/storm_1/advisory.txt
Public Advisory (Storm #2)	/storm_2/advisory.txt
Public Advisory (Storm #3)	/storm_3/advisory.txt
Public Advisory (Storm #4)	/storm_4/advisory.txt
Public Advisory (Storm #5)	/storm_5/advisory.txt

Tropical Depression Forecast (Storm #1) /storm_1/technical_advisory.txt
Tropical Depression Forecast (Storm #2) /storm_2/technical_advisory.txt
Tropical Depression Forecast (Storm #3) /storm_3/technical_advisory.txt
Tropical Depression Forecast (Storm #4) /storm_4/technical_advisory.txt
Tropical Depression Forecast (Storm #5) /storm_5/technical_advisory.txt
RECON Plan TBD

Central Pacific Tropical Weather Outlook normally issued 0300z, 0900z, 1500z and 2100z during hurricane season, June 1 - November 30. Remaining products issued when active systems exist. May be issued at 3-hourly intervals and other unscheduled times as system approaches landfall.

Author: Timothy Rulon, Office of Meteorology,
National Weather Service
Last Modified Friday Mar 31, 1999
Document URL: <http://weather.noaa.gov/pub/fax/marine2.txt>

NATIONAL WEATHER SERVICE MARINE TEXT PRODUCTS
COASTAL and NEARSHORE MARINE FORECASTS

This file is intended to assist mariners using the FTPMAIL system which is used to obtain National Weather Service products via e-mail. The following is an example in the use of the FTPMAIL system. NOTE CAPITALIZATION!

Send an e-mail to: ftpmail@weather.noaa.gov
Subject Line: Put anything you like
Body: open iwin.nws.noaa.gov
cd data
cd text
cd FZUS51
get KCAR.TXT
get KGYX.TXT
quit

The "help" file contains a more detailed description of the FTPMAIL system and available products. To obtain a copy of the FTPMAIL "help file".

Send an e-mail to: ftpmail@weather.noaa.gov
Subject Line: Put anything you like
Body: help

COASTAL and NEARSHORE MARINE FORECASTS

These files may be found in directory:
ftp://iwin.nws.noaa.gov/data/text/FZUS51 (FZUS52, etc)
or
ftp://iwin2.nws.noaa.gov/data/text/FZUS51 (FZUS52, etc)

PRODUCT DESCRIPTION	FILE NAME
Caribou, ME	/FZUS51/KCAR.TXT
Gray, ME	/FZUS51/KGYX.TXT
Taunton, MA	/FZUS51/KBOX.TXT
New York, NY	/FZUS51/KOKX.TXT
Philadelphia, PA	/FZUS51/KPHI.TXT
Washington, DC	/FZUS51/KLWX.TXT
Wakefield, VA	/FZUS51/KAKQ.TXT
Newport/Morehead City, NC	/FZUS52/KMHX.TXT
Wilmington, NC	/FZUS52/KILM.TXT
Charleston, SC	/FZUS52/KCHS.TXT
Jacksonville, FL	/FZUS52/KJAX.TXT
Melbourne, FL	/FZUS52/KMLB.TXT
Miami, FL	/FZUS52/KMFL.TXT
Key West, FL	/FZUS52/KEYW.TXT
San Juan, PR	/FZCA52/TJSJ.TXT
San Juan, PR (Spanish)	/FZCA62/TJSJ.TXT
Tampa, FL	/FZUS52/KTBW.TXT
Tallahasee, FL	/FZUS52/KTAE.TXT
Mobile, AL	/FZUS54/KMOB.TXT
New Orleans, LA	/FZUS54/KLIX.TXT
Lake Charles, LA	/FZUS54/KLCH.TXT
Houston/Galveston, TX	/FZUS54/KHGX.TXT
Corpus Christi, TX	/FZUS54/KCRP.TXT
Brownsville, TX	/FZUS54/KBRO.TXT
Seattle, WA	/FZUS56/KSEW.TXT
Portland, OR	/FZUS56/KPQR.TXT
Medford, OR	/FZUS56/KMFR.TXT
Eureka, CA	/FZUS56/KEKA.TXT
San Francisco, CA	/FZUS56/KMTR.TXT

Los Angeles,	See note 1
San Diego, CA	See note 2
Hawaii	/FZHW50/PHFO.TXT
Marianas (Guam)	/FZMY50/PGUM.TXT
Micronesia	/FZPQ50/PGUM.TXT
Samoa	/FZZM40/NSTU.TXT
Buffalo, NY	/FZUS51/KBUF.TXT
Cleveland, OH	/FZUS53/KCLE.TXT
Detroit/Pontiac, MI	/FZUS53/KDTX.TXT
Gaylord, MI	/FZUS53/KAPX.TXT
Grand Rapids, MI	/FZUS53/KGRR.TXT
Chicago, IL	/FZUS53/KLOT.TXT
Milwaukee/Sullivan, WI	/FZUS53/KMKX.TXT
Green Bay, WI	/FZUS53/KGRB.TXT
Marquette, MI	/FZUS53/KMQT.TXT
Duluth, MN	/FZUS53/KDLH.TXT
Alaska Areas 1A, 1B, 2A	/FZAK61/PAJN.TXT
Alaska Area 2A1	/FZAK47/PAYA.TXT
Alaska Areas 2B, 2B1, 2C	/FZAK62/PANC.TXT
Alaska Areas 2C1, 2C2, 2C3	/FZAK48/PAVD.TXT
Alaska Areas 3A, 3B, 3C, 4, 4A	/FZAK63/PANC.TXT
Alaska Areas 3B1, 3B2	/FZAK48/PADQ.TXT
Alaska Areas 5A, 5B, 6A, 6B	/FZAK64/PANC.TXT
Alaska Areas 8, 12A, 12B, 13, 15	/FZAK65/PANC.TXT
Alaska Areas 14, 9A, 9B, 10A, 10B, 11A, 11B	/FZAK66/PAFA.TXT

1. Use <ftp://weather.noaa.gov/data/raw/fz/fzus56.klox.cwf.lax.txt>
2. Use <ftp://weather.noaa.gov/data/raw/fz/fzus56.ksgx.cwf.sgx.txt>

Author: Timothy Rulon, Office of Meteorology,
National Weather Service
Last Modified December 05, 2001
Document URL: <http://weather.noaa.gov/pub/fax/marine3.txt>
<ftp://weather.noaa.gov/fax/marine3.txt>

NATIONAL WEATHER SERVICE MARINE TEXT PRODUCTS
OFFSHORE and OPEN LAKE FORECASTS by ZONE

This file is intended to assist mariners using the FTPMAIL system which is used to obtain National Weather Service products via e-mail. The following is an example in the use of the FTPMAIL system. NOTE CAPITALIZATION!

Send an e-mail to: ftpmail@weather.noaa.gov
Subject Line: Put anything you like
Body: open
cd data
cd forecasts
cd marine
cd offshore
cd an
get anz080.txt
get anz081.txt
get anz082.txt
get anz083.txt
get anz090.txt
quit

The "help" file contains a more detailed description of the FTPMAIL system and available products. To obtain a copy of the FTPMAIL "help file".

Send an e-mail to: ftpmail@weather.noaa.gov
Subject Line: Put anything you like
Body: help

OFFSHORE and OPEN LAKE FORECASTS by ZONE

These files may be found in directory:
ftp://weather.noaa.gov/data/forecasts/marine/offshore/an (an, am, gm, etc.)

Please note that many zones will contain identical forecast information at times.

Synopsis for New England (ANZ080)
Gulf of Maine to the Hague Line (ANZ081)
Georges Bank to the Hague Line (ANZ082)
South of New England to the Hague Line (ANZ083)
Outlook for New England (ANZ090)
Synopsis for Mid-Atlantic (ANZ089)
Hudson Canyon to Baltimore Canyon (ANZ084)
Baltimore Canyon to Hatteras Canyon (ANZ085)
Hatteras Canyon to 31° N (ANZ086)
South and East of 1000 Fathoms (ANZ088)
Outlook for Mid-Atlantic (ANZ095)
Synopsis for Southwest North Atlantic (AMZ088)
Southwest North Atlantic of 31N and West of 65W (AMZ080)
Outlook for Southwest North Atlantic (AMZ090)
Synopsis for Caribbean Sea (AMZ089)
Northwest Caribbean of 15N and West of 75W (AMZ082)
Southwest Caribbean of 15N and West of 75W (AMZ084)
East Caribbean east of 75W (AMZ086)
Tropical North Atlantic 07-22° N, 55-65° W (AMZ087)
Outlook for Caribbean Sea (AMZ095)
Synopsis for Gulf of Mexico (GMZ089)
Northwest Gulf (GMZ080)
Southwest Gulf (GMZ082)
Middle Gulf (GMZ084)
East Gulf (GMZ086)
Outlook for Gulf of Mexico (GMZ095)

Synopsis for Washington and Oregon waters (PZZ080)
 Cape Flattery to Cape Lookout (PZZ081)
 Cape Lookout to Point St. George (PZZ082)
Outlook for Washington and Oregon offshore waters (PZZ090)
Synopsis for California waters (PZZ089)
 Point St. George to Point Arena (PZZ083)
 Point Arena to Point Conception (PZZ084)
 Point Conception to Guadeloupe Island (PZZ085)
Outlook for California offshore waters (PZZ095)
Synopsis for Hawaii Offshore Waters (PHZ105)
 Hawaii Waters within 1000 nm of Honolulu south of 30N (PHZ180)
Outlook for Hawaii Offshore Waters (PHZ195)
Synopsis for Bering Sea (PKZ300)
 Bering Sea (PKZ380)
Outlook for the Bering Sea (PKZ390)
Synopsis for Gulf of Alaska (PKZ305)
 Gulf of Alaska (PKZ385)
Outlook for Gulf of Alaska (PKZ395)

For the following offshore products, use directory:
<ftp://weather.noaa.gov/data/forecasts/marine/coastal/ph>

Synopsis for Hawaii Offshore Waters (PHZ105)
 Hawaii Waters within 1000 nm of Honolulu south of 30N (PHZ180)
Outlook for Hawaii Offshore Waters (PHZ195)

For the following Great Lakes products, use directory:
ftp://weather.noaa.gov/data/forecasts/marine/great_lakes/ls (lm, lh, ...)

Lake Superior (U.S. portion) (LSZ260)
Lake Superior MAFOR (LSZ261)
Lake Michigan open water (LMZ760)
Lake Michigan MAFOR (LMZ761)
Lake Huron (U.S. portion) (LHZ460)
Lake Huron MAFOR (LHZ461)
Lake St. Clair (U.S. portion) (LCZ460)
Lake Erie (U.S. portion) (LEZ160)
Lake Erie MAFOR (LEZ161)
Lake Ontario (U.S. portion) (LOZ060)
Lake Ontario MAFOR (LOZ061)

Author: Timothy Rulon, Office of Meteorology,
National Weather Service
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<ftp://weather.noaa.gov/fax/marine4.txt>

NATIONAL WEATHER SERVICE MARINE TEXT PRODUCTS

COASTAL FORECASTS by ZONE for the ATLANTIC

This file is intended to assist mariners using the FTPMAIL system which is used to obtain National Weather Service products via e-mail. The following is an example in the use of the FTPMAIL system. NOTE CAPITALIZATION!

Send an e-mail to: ftpmail@weather.noaa.gov
Subject Line: Put anything you like
Body: open
cd data
cd forecasts
cd marine
cd coastal
cd an
get anz200.txt
get anz230.txt
get anz231.txt
get anz290.txt
quit

The "help" file contains a more detailed description of the FTPMAIL system and available products. To obtain a copy of the FTPMAIL "help file".

Send an e-mail to: ftpmail@weather.noaa.gov
Subject Line: Put anything you like
Body: help

COASTAL FORECASTS by ZONE for the ATLANTIC

These files may be found in directory:
ftp://weather.noaa.gov/data/forecasts/marine/coastal/an (an, am, gm, etc.)

Please note that many zones will contain identical forecast information at times.

Synopsis for Eastport, ME to Stonington/Deer Isle, ME (ANZ005)
Coastal waters from Eastport, ME to Stonington/Deer Isle, ME out 25 nm (ANZ050)
Outlook for Eastport, ME to Stonington/Deer Isle, ME (ANZ092)
Synopsis for Stonington/Deer Isle, ME to Merrimack, MA (ANZ100)
Stonington/Deer Isle, ME to Merrimack River, MA out 25 nm (ANZ150)
Outlook for Stonington/Deer Isle, ME to Merrimack River, MA (ANZ190)
Synopsis for MA and RI waters (ANZ200)
Coastal waters from Merrimack, MA to Chatham, MA excluding Boston Harbor, out 25 nm (ANZ250)
Boston Harbor (ANZ230)
Cape Cod Bay (ANZ231)
Coastal waters from Chatam, MA to Watch Hill, RI out 25 nm (ANZ255)
Nantucket Sound (ANZ232)
Vinyard Sound (ANZ233)
Buzzards Bay (ANZ234)
Rhode Island Sound (ANZ235)
Narragansett Bay (ANZ236)
Block Island Sound (ANZ237)
Outlook for MA and RI waters (ANZ290)
Synopsis for Long Island Waters and New York Harbor (ANZ300)
Coastal waters from Montauk Point, NY to Moriches Inlet, NY out 20 nm (ANZ350)

Coastal waters from Moriches Inlet, NY to Fire Island Inlet, NY out 20 nm (ANZ353)
Coastal waters from Fire Island Inlet, NJ to Sandy Hook, NJ out 20 nm (ANZ355)
Long Island Sound East of New Haven CT/Port Jefferson NY (ANZ330)
Long Island Sound West of New Haven CT/Port Jefferson NY (ANZ335)
New York Harbor (ANZ338)
Outlook for Long Island Waters Including New York Harbor (ANZ390)
Synopsis for Sandy Hook, NJ to Fenwick Island, DE and Delaware Bay (ANZ400)
Coastal waters from Sandy Hook to Manasquan Inlet, NJ out 20 nm (ANZ450)
Coastal waters from Manasquan Inlet to Little Egg Inlet, NJ out 20 nm (ANZ451)
Coastal waters from Little Egg Inlet to Great Egg Inlet, NJ out 20 nm (ANZ452)
Coastal waters from Great Egg Inlet to Cape May, NJ out 20 nm (ANZ453)
Coastal waters from Cape May to Cape Henlopen, DE out 20 nm (ANZ454)
Coastal waters from Cape Henlopen to Fenwick Island, DE out 20 nm (ANZ455)
Slaughter Beach, DE...to Delaware Bay Waters North of East Point, NJ
to Slaughter Beach, DE (ANZ430)
Slaughter Beach, DE...to Delaware Bay Waters tSouth of East Point, NJ
to Slaughter Beach, DE (ANZ431)
Outlook for Sandy Hook, NJ to Fenwick Island, DE and Delaware Bay (ANZ490)
Synopsis for Tidal Potomac River and MD Portion of the Chesapeake Bay (ANZ500)
Chesapeake Bay north of Pooles Island, MD (ANZ530)
Chesapeake Bay from Pooles Island to Sandy Point, MD (ANZ531)
Chesapeake Bay from Sandy Point to North Beach, MD (ANZ532)
Chesapeake Bay from North Beach to Drum Point, MD (ANZ533)
Chesapeake Bay from Drum Point to Smith Point, VA (ANZ534)
Tidal Potomac from Key Bridge to Indian Head, MD (ANZ535)
Tidal Potomac from Indian Head to Cobb Island, MD (ANZ536)
Tidal Potomac from Cobb Island, MD to Smith Point, VA (ANZ537)
Outlook for Tidal Potomac River and MD Portion of the Chesapeake Bay (ANZ590)
Synopsis for Fenwick Island to Currituck Beach Light, NC [including Chesapeake Bay
and Currituck Sound] (ANZ600)
Chesapeake Bay from Smith Point to Windmill Point, VA (ANZ630)
Chesapeake Bay from Windmill Point to New Point Comfort, VA (ANZ631)
Chesapeake Bay from New Point Comfort To Cape Henry, VA (ANZ632)
Coastal waters from Fenwick Island, DE to Chincoteague, VA out 20 nm [including
Currituck Sound] (ANZ650)
Coastal waters from Chincoteague to Parramore Island, VA out 20 nm (ANZ652)
Coastal waters from Parramore Island to Cape Charles Light, VA out 20 nm (ANZ654)
Coastal waters from Cape Charles Light, VA to NC-VA border out 20 nm (ANZ656)
Coastal waters from VA-NC border to Currituck Beach Light, NC out 20 nm (ANZ658)
Currituck Sound(ANZ633)
Outlook for Fenwick Island to Currituck Baeach Light, NC [including Chesapeake Bay and
Currituck Sound] (see note 1)
Synopsis for Currituck Beach Light to Surf City, NC out 20 nm [including Albemarle and
Pamlico Sounds] (AMZ100)
Coastal waters from Currituck Beach Light to Oregon Inlet, NC out 20 nm (AMZ150)
Coastal waters from Oregon Inlet to Cape Hatteras, NC out 20 nm (AMZ152)
Coastal waters from Cape Hatteras to Ocracoke Inlet, NC out 20 nm (AMZ154)
Coastal waters from Ocracoke Inlet to Cape Lookout, NC out 20 nm (AMZ156)
Coastal waters from Cape Lookout to Surf City, NC out 20 nm (AMZ158)
Albemarle Sound (AMZ130)
Pamlico Sound (AMZ135)
Outlook for Currituck Beach Light to Surf City, NC out 20 nm [including Albemarle and
Pamlico Sounds] (AMZ190)
Synopsis for Surf City, NC to Santee River, SC out 20 nm (AMZ200)
Coastal waters from Surf City to Cape Fear, NC out 20 nm (AMZ250)
Coastal waters from Cape Fear to Little River Inlet, NC out 20 nm (AMZ252)
Coastal waters from Little River Inlet, NC to Murrells Inlet, SC out 20 nm (AMZ254)
Coastal waters from Murrells Inlet to South Santee River, SC out 20 nm (AMZ256)
Outlook for Surf City, NC to Santee River, SC (AMZ290)
Synopsis for South Santee River, SC to Savannah, GA out to 20 nm [including
Charleston Harbor] (AMZ300)
Coastal waters from South Santee River, GA to Edisto Beach, SC out 20 nm (AMZ350)
Coastal waters from Edisto Beach, SC to Savannah, GA out 20 nm (AMZ352)
Charleston Harbor (AMZ330)
Outlook for South Santee River, SC to Savannah, GA out to 20 nm [including Charleston
Harbor] (AMZ390)

Synopsis for Savannah, GA to Altamaha Sound, GA out to 60 nm (AMZ305)
Coastal waters from Savannah, GA to Altamaha Sound, GA out 20 nm (AMZ354)
Waters from Savannah, GA to Altamaha Sound, GA extending 20 to 60 nm (AMZ374)
Outlook for Savannah, GA to Altamaha Sound, GA out 60 nm (AMZ395)
Synopsis for Altamaha Sound, GA to Flagler Beach, FL out 60 nm (AMZ400)
Coastal waters from Altamaha Sound, GA to Flagler Beach, FL out to 20 nm (AMZ450)
Waters from Altamaha Sound, GA to Fernandina Beach, FL extending 20nm to 60
nm(AMZ470)
Port of Jacksonville (AMZ435)
Coastal waters from Fernandina Beach to St. Augustine, FL out 20 nm (AMZ452)
Waters from Fernandina Beach to St. Augustine, FL extending 20nm to 60 nm (AMZ472)
Coastal waters from St. Augustine to Flagler Beach, FL out 20 nm (AMZ454)
Waters from St. Augustine to Flagler Beach, FL extending 20nm to 60 nm (AMZ474)
Outlook for Altamaha Sound, GA to Flagler Beach, FL out 60 nm (see note 1)
Synopsis for Flagler Beach to Juniper Inlet, FL 60 nm (AMZ500)
Coastal waters from Flagler Beach to Cocoa Beach, FL out 20 nm (AMZ550)
Waters from Flagler Beach to Cocoa Beach, FL extending 20nm to 60 nm (AMZ570)
Coastal waters from Cocoa Beach to Juniper Inlet, FL out 20 nm (AMZ555)
Waters from Cocoa Beach to Juniper Inlet, FL extending 20 to 60 nm (AMZ575)
Outlook for Flagler Beach to Juniper Inlet Out to 60 nm (see note 1)
Synopsis for Juniper Inlet to Ocean Reef Out 60 nm (AMZ600)
Lake Okeechobee, FL (AMZ610)
Outlook for Lake Okeechobee, FL (see note 1)
Coastal waters from Jupiter Inlet to Deerfield Beach, FL out 20 nm (AMZ650)
Waters from Jupiter Inlet to Deerfield Beach, FL extending 20nm to 60 nm (AMZ670)
Biscayne Bay, FL (AMZ630)
Coastal waters from Deerfield Beach to Ocean Reef, FL out 20 nm (AMZ651)
Waters from Deerfield Beach to Ocean Reef, FL extending 20nm to 60 nm (AMZ671)
Outlook for Juniper Inlet to Ocean Reef Out 60 nm (see note 1)
Synopsis for Florida Bay and the Keys (GMZ005)
Ocean Reef to Craig Key, FL out 20 nm (GMZ052)
Ocean Reef to Craig Key, FL extending from 20 nm to 60 nm (GMZ072)
Florida Bay (GMZ031)
Gulf side of the lower Keys out 20 nm (GMZ032)
Craig Key to the west end of 7 mile bridge out 20 nm (GMZ053)
Craig Key to west end of 7 mile bridge extending from 20 nm to 60 nm (GMZ073)
West end of 7 mile bridge to Key West, FL out 20 nm (GMZ054)
West end of 7 mile bridge to Key West, FL extending from 20 nm to 60 nm (GMZ074)
Gulf waters from Key West, FL [west to 20 nm west of Dry Tortugas, and north 20 &
south 60 nm from Dry
Tortugas] (GMZ075)
Gulf waters from East Cape Sable to Chokoloskee, FL extending from 20 nm to 60 nm
(GMZ033)
Outlook for Ocean Reef to Key West out 60 nm [including Florida Bay] (see note 1)
Outlook for Key West to 20 nm west of Dry Tortugas [north 20 and south 60 nm from Dry
Tortugas] (see note 1)
Outlook for East Cape Sable to Chokoloskee [from 20 to 60 nm Gulf side of lower Keys
out 20 nm] (see note 1)
Synopsis for Puerto Rico and the U.S. Virgin Islands coastal waters(AMZ700)
Nearshore waters from mouth of Rio Guajataca eastward to Cabo San Juan, than
eastward to
Culebra, St.Thomas, St. John, and adjacent waters, out to 100 fathom line (AMZ720)
Atlantic waters northward to 19.5° N and between 68° W and 64° W, from northwest
coast of
Puerto Rico at Punta Cadena eastward to mouth of Rio Guajataca, extending eastward
beyond
100 fathom line to the Anegada Passage (AMZ710)
Caribbean waters from Punta Viento, north to Cabo San Juan extending southward to
17° N and
eastward to 64° W, including the Caribbean waters of Culebra and Vieques of the
U.S.
Virgin Islands (AMZ730)
Nearshore waters west coast from Punta Cadena to Punta Melones westward out to 12
nm
(AMZ740)

Caribbean Waters Punta Viento to Punta Melones, and the waters outside of 12 nautical miles

Punta Melones to Punta Cadena, extending southward to 17° N and westward to 68° W (AMZ750)
Outlook for Puerto Rico and U.S. Virgin Islands (see note 1)

Note #1 - Outlook for these areas no longer available as a separate UGC.
The coastal zone forecasts in these areas have been extended to a five day period.

Author: Timothy Rulon, Office of Meteorology,
National Weather Service

Last Modified December 04, 2001

Document URL: <http://weather.noaa.gov/pub/fax/marine5.txt>
<ftp://weather.noaa.gov/fax/marine5.txt>

NATIONAL WEATHER SERVICE MARINE TEXT PRODUCTS
COASTAL FORECASTS by ZONE for the PACIFIC

This file is intended to assist mariners using the FTPMAIL system which is used to obtain National Weather Service products via e-mail. The following is an example in the use of the FTPMAIL system. NOTE CAPITALIZATION!

Send an e-mail to: ftpmail@weather.noaa.gov
Subject Line: Put anything you like
Body: open
cd data
cd forecasts
cd marine
cd coastal
cd pz
get pzz100.txt
get pzz156.txt
get pzz176.txt
get pzz190.txt
quit

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Body: help

COASTAL FORECASTS by ZONE for the PACIFIC

These files may be found in directory:
ftp://weather.noaa.gov/data/forecasts/marine/coastal/pz

Please note that many zones will contain identical forecast information at times.

Synopsis for Northern Washington Coast and Puget Sound, WA (PZZ100)
Coastal waters from Cape Shoalwater to Pt. Grenville, WA and westward 20 nm (PZZ156)
Cape Shoalwater to Pt. Grenville, WA extending westward 20 nm to 60 nm (PZZ176)
Gray Harbor Bar (PZZ110)
Pt. Grenville to James Island, WA westward 20 nm (PZZ153)
Pt. Grenville to James Island, WA extending 20 nm to 60 nm (PZZ173)
James Island to Cape Flattery, WA westward 20 nm (PZZ150)
James Island to Cape Flattery, WA extending 20 nm to 60 nm (PZZ170)
Strait of Juan de Fuca from Cape Flattery to Slip Point, WA (PZZ130)
Strait of Juan de Fuca from Slip Point to New Dungeness Light, WA (PZZ131)
Strait of Juan de Fuca from New Dungeness Light to Whidbey Is, WA [between Deception
Pass & Admiralty
Head] (PZZ132)
N. inland waters Camano Island to Pt. Roberts, WA [including San Juan Island]
(PZZ133)
Admiralty Inlet, WA from Admiralty Head to Foulweather Bluff (PZZ134)
Puget Sound and Hood Canal, WA (PZZ135)
Outlook for Northern Washington Coast and Puget Sound, WA (PZZ190)
Synopsis for Northern Oregon/Southern Washington Coast (PZZ200)
Florence to Cascade Head, OR and westward 20 nm (PZZ255)
Florence to Cascade Head, OR extending westward 20 nm to 60nm (PZZ275)
Cape Shoalwater, WA to Cascade Head, OR and westward 20 nm (PZZ250)
Cascade Head, OR to Cape Shoalwater, WA extending westward 20 nm to 60 nm (PZZ270)
Columbia River Bar (PZZ210)
Outlook for Northern Oregon/Southern Washington Coast (PZZ290)

Synopsis for Southern Oregon Coast (PZZ300)
Pt. St. George, CA to Cape Blanco, OR westward 20 nm (PZZ356)
Pt. St. George, CA to Cape Blanco, OR extending from 20 nm to 60 nm (PZZ376)
Cape Blanco to Cape Arago, OR westward 20 nm (PZZ353)
Cape Blanco to Cape Arago, OR extending from 20 nm to 60 nm (PZZ373)
Cape Arago to Florence, OR westward 20 nm (PZZ350)
Cape Arago to Florence, OR extending westward 20 nm to 60 nm (PZZ370)
Outlook for Southern Oregon Coast (PZZ390)
Synopsis for Northern California Coast (PZZ400)
Pt. Arena to Cape Mendocino, CA westward 20 nm (PZZ455)
Pt. Arena to Cape Mendocino, CA extending westward 20 nm to 60 nm (PZZ475)
Cape Mendocino to Pt. St. George, CA westward 20 nm (PZZ450)
Cape Mendocino to Pt. St. George, CA extending westward 20 nm to 60 nm (PZZ470)
Outlook for Northern California Coast (PZZ490)
Synopsis for Central California Coast and Bays (PZZ500)
Pt. Piedras Blancas to Pigeon Pt., CA westward 20 nm (PZZ555)
Pt. Piedras Blancas to Pigeon Pt., CA extending westward 20 nm to 60 nm (PZZ575)
Pigeon Pt. to Pt. Arena, CA westward 20 nm (PZZ550)
Pigeon Pt. to Pt. Arena, CA extending westward 20 nm to 60 nm (PZZ570)
Monterey Bay, CA (PZZ535)
San Francisco, San Pablo, Suisun Bays, and West Delta, CA (PZZ530)
Outlook for Central California Coast and Bays (PZZ590)
Synopsis for Southern California Coast (PZZ600)
Point Mugu to San Mateo Pt., CA [including Santa Catalina & Santa Barbara Islands]
(PZZ655)
Santa Cruz Island to San Clemente Island to 60 nm [including San Nicholas Island]
(PZZ676)
East Santa Barbara Channel from Pt. Conception to Pt. Mugu, CA [including Santa Cruz
& Anacapa Islands](PZZ650)
Pt. Arguello to Santa Cruz Island, CA and westward 60 nm [including San Miguel &
Santa Rosa Islands] (PZZ673)
Pt. Piedras Blancas to Pt. Arguello, CA and westward 60 nm (PZZ670)
Outlook for Southern California and Santa Barbara Channel (PZZ690)
Synopsis for Far Southern California coast (PZZ700)
San Mateo Point, CA to Mexican Border to 30 nm (PZZ750)
Waters from San Mateo Point, CA to the Mexican Border 30 to 60 nm out [including
San Clemente Island] (PZZ775)
Outlook for Far Southern California Coast (PZZ790)

Author: Timothy Rulon, Office of Meteorology,
National Weather Service
Last Modified August 13, 2001
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NATIONAL WEATHER SERVICE MARINE TEXT PRODUCTS
COASTAL FORECASTS by ZONE for the GULF of MEXICO

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cd marine
cd coastal
cd gm
get gmz005.txt
get gmz052.txt
get gmz072.txt
get gmz095.txt
quit

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COASTAL FORECASTS by ZONE for the GULF of MEXICO

These files may be found in directory:
ftp://weather.noaa.gov/data/forecasts/marine/coastal/gm

Please note that many zones will contain identical forecast information at times.

Synopsis for Florida Bay and the Keys (GMZ005)

Ocean Reef to Craig Key, FL out 20 nm (GMZ052)
Ocean Reef to Craig Key, FL extending from 20 nm to 60 nm (GMZ072)
Florida Bay (GMZ031)
Gulf side of the lower Keys out 20 nm (GMZ032)
Craig Key to the west end of 7 mile bridge out 20 nm (GMZ053)
Craig Key to west end of 7 mile bridge extending from 20 nm to 60 nm (GMZ073)
West end of 7 mile bridge to Key West, FL out 20 nm (GMZ054)
West end of 7 mile bridge to Key West, FL extending from 20 nm to 60 nm (GMZ074)
Gulf waters from Key West, FL [west to 20 nm west of Dry Tortugas, and north 20 & south 60 nm from Dry Tortugas] (GMZ075)
Gulf waters from East Cape Sable to Chokoloskee, FL extending from 20 nm to 60 nm (GMZ033)

Outlook for Ocean Reef to Key West out 60 nm [including Florida Bay] (see note 1)
Outlook for Key West to 20 nm west of Dry Tortugas [north 20 and south 60 nm from Dry Tortugas] (see note 1)
Outlook for East Cape Sable to Chokoloskee [from 20 to 60 nm Gulf side of lower Keys out 20 nm] (see note 1)

Synopsis for East Cape Sable to Bonita Beach, FL out 60 nm (GMZ606)

Coastal waters from Chokoloskee to Bonita Beach, FL out 20 nm (GMZ656)
Coastal waters from East Cape Sable to Chokoloskee, FL out 20 nm (GMZ657)
Waters from Chokoloskee to Bonita Beach, FL extending from 20 nm to 60 nm (GMZ676)
Outlook for East Cape Sable to Chokoloskee, FL out 20 nm and Chokoloskee Bonita Beach out 60 nm (see note 1)

Synopsis for Bonita Beach to Suwannee River, FL out 60 nm (GMZ800)
Coastal waters from Bonita Beach to Englewood, FL out 20 nm (GMZ856)
Waters from Bonita Beach to Englewood, FL extending from 20 to 60 nm (GMZ876)
Tampa Bay(GMZ830)
Coastal waters from Englewood to Tarpon Springs, FL out 20 nm (GMZ853)
Waters from Englewood to Tarpon Springs, FL extending from 20 to 60 nm (GMZ873)
Coastal waters from Tarpon Springs to Suwannee River, FL out 20 nm (GMZ850)
Waters from Tarpon Springs to Suwannee River, FL extending from 20 nm to 60 nm (GMZ870)
Outlook for Bonita Beach to Suwannee River, FL out 60 nm (see note 1)
Synopsis for Suwannee River to Apalachicola, FL out 60 nm (GMZ700)
Coastal waters from Suwannee River to Apalachicola, FL out 20 nm (GMZ755)
Waters from Suwannee River to Apalachicola, FL extending from 20 to 60 nm (GMZ775)
Outlook for Suwannee River to Apalachicola, FL out 60 nm (see note 1)
Synopsis for Apalachicola to Destin, FL out 60 nm (GMZ701)
Coastal waters from Apalachicola to Destin, FL out 20 nm (GMZ750)
Waters from Apalachicola to Destin, FL extending from 20 to 60 nm (GMZ770)
Outlook for Apalachicola to Destin, FL from 20 to 60 nm out (see note 1)
Synopsis for Destin to Pascagoula, MS out 60 nm (GMZ600)
Coastal waters from Destin to Pensacola, FL out 20 nm (GMZ655)
Waters from Destin to Pensacola, FL extending from 20 to 60 nm (GMZ675)
Coastal waters from Pensacola, FL to Pascagoula, MS out 20 nm (GMZ650)
Waters from Pensacola, FL to Pascagoula, MS extending from 20 to 60 nm (GMZ670)
Mobile Bay (GMZ630)
Outlook for Destin, FL to Pascagoula, MS out 60 nm - including Mobile Bay (see note 1)
Synopsis for Pascagoula, MS to Southwest Pass of the Mississippi River out 60 nm (GMZ500)
Lake Pontchartrain / Lake Maurepas (GMZ530)
Coastal waters from Pascagoula, MS to the southwest pass of the Mississippi River out 20 nm (GMZ555)
Waters from Pascagoula, MS to the southwest pass of the Mississippi River extending from 20 to 60 nm (GMZ575)
Outlook for Pascagoula, MS to the southwest pass of the Mississippi River [out 60 nm - including lakes Pontchartrain & Maurepas] (see note 1)
Synopsis for Southwest pass of the Mississippi River to Atchafalaya River, LA out 60 nm (GMZ501)
Coastal waters from Mississippi River to Lower Atchafalaya River, LA out 20 nm (GMZ550)
Waters from Mississippi River to Lower Atchafalaya River, LA extending from 20 to 60 nm (GMZ570)
Outlook for Mississippi River to Lower Atchafalaya River, LA out 60 nm (see note 1)
Synopsis for Atchafalaya River to High Island, TX out 60 nm (GMZ400)
Coastal waters from Lower Atchafalaya River to Cameron, LA out 20 nm (GMZ455)
Waters from Lower Atchafalaya River to Cameron, LA extending from 20 to 60 nm (GMZ475)
Coastal waters from Cameron, LA to High Island, TX out 20 nm (GMZ450)
Waters from Cameron, LA to High Island, TX extending from 20 to 60 nm (GMZ470)
Outlook for Lower Atchafalaya River to High Island, TX out 60 nm (see note 1)
Synopsis for High Island to Matagorda Ship Channel out 60 nm (GMZ300)
Galveston Bay(GMZ335)
Coastal waters from High Island to Freeport, TX out 20 nm (GMZ355)
Waters from High Island to Freeport, TX extending from 20 to 60 nm (GMZ375)
Matagorda Bay (GMZ330)
Coastal waters from Freeport to Matagorda Ship Channel out 20 nm (GMZ350)
Waters from Freeport to Matagorda Ship Channel, TX extending from 20 to 60 nm (GMZ370)
Outlook for High Island to Matagorda Ship Channel out 60 nm (see note 1)
Synopsis for Matagorda Ship Channel to Baffin Bay, TX out 60 nm (GMZ200)
Bays and waterways from Port O'Connor to Aransas Pass (GMZ235)
Coastal waters from Matagorda Ship Channel to Port Aransas Pass out 20 nm (GMZ255)
Waters from Matagorda Ship Channel to Port Aransas extending from 20 to 60 nm (GMZ275)
Bays and waterways from Corpus Christi Bay to Baffin Bay (GMZ230)
Coastal waters from Port Aransas to Baffin Bay out 20 nm (GMZ250)

Waters from Port Aransas to Baffin Bay, TX extending from 20 to 60 nm (GMZ270)
Outlook for Matagorda Ship Channel to Baffin Bay, TX out 60 nm (see note 1)
Synopsis for Baffin Bay to Rio Grande, TX out 60 nm (GMZ100)
Coastal waters from Baffin Bay to Port Mansfield, TX out 20 nm (GMZ155)
Waters from Baffin Bay to Port Mansfield, TX extending from 20 to 60 nm (GMZ175)
Laguna Madre Bay (GMZ130)
Coastal waters from Port Mansfield to Rio Grande River out 20 nm (GMZ150)
Waters from Port Mansfield, TX to Rio Grande extending from 20 to 60 nm (GMZ170)
Outlook for Baffin Bay, TX to Rio Grande out 60 nm (see note 1)

NOTE #1 - Outlook for these areas no longer available as a separate UGC.
The coastal zone forecasts in these areas have been extended to a five day period.

Author: Timothy Rulon, Office of Meteorology,
National Weather Service
Last Modified August 13, 2001
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<ftp://weather.noaa.gov/fax/marine7.txt>

NATIONAL WEATHER SERVICE MARINE TEXT PRODUCTS
COASTAL FORECASTS by ZONE for the GREAT LAKES

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Send an e-mail to: ftpmail@weather.noaa.gov
Subject Line: Put anything you like
Body: open
cd data
cd forecasts
cd marine
cd near_shore
cd ls
get lsz140.txt
get lsz141.txt
quit

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Subject Line: Put anything you like
Body: help

COASTAL FORECASTS by ZONE for the GREAT LAKES

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OPEN LAKE ZONE FORECASTS

These files may be found in directory:
ftp://weather.noaa.gov/data/forecasts/marine/great_lakes/ls (lh,lo,le etc)

Lake Superior (U.S. portion) (LSZ260)
Lake Superior MAFOR (LSZ261)
Lake Michigan open water (LMZ760)
Lake Michigan MAFOR (LMZ761)
Lake Huron (U.S. portion) (LHZ460)
Lake Huron MAFOR (LHZ461)
Lake St. Clair (U.S. portion) (LCZ460)
Lake Erie (U.S. portion) (LEZ160)
Lake Erie MAFOR (LEZ161)
Lake Ontario (U.S. portion) (LOZ060)
Lake Ontario MAFOR (LOZ061)

COASTAL MARINE ZONE FORECASTS

These files may be found in directory:
ftp://weather.noaa.gov/data/forecasts/marine/near_shore/ls (lh,lo,le etc)

[NWS marine ZONE forecast areas - within 5 nautical miles of shore]

LAKE SUPERIOR, BAYS AND RIVERS

Minnesota Shore Line

Grand Portage to Grand Marais, MN (LSZ140)
Grand Marais to Taconite Harbor, MN (LSZ141)
Taconite Harbor to Silver Bay Harbor, MN (LSZ142)
Silver Bay Harbor to Two Harbors, MN (LSZ143)
Two Harbors to Duluth, MN (LSZ144)

Wisconsin Shore Line

Duluth, MN to Port Wing, WI (LSZ145)
Port Wing to Sand Island, WI (LSZ146)
Sand Island to Bayfield, WI (LSZ147)
Chequamegon Bay-Bayfield to Oak Point, WI (LSZ121)
Oak Point to Saxon Harbor, WI (LSZ148)

Michigan Shore Line

Saxon Harbor, WI to Ontonagon, MI (LSZ241)
Ontonagon to Upper Entrance of Portage Canal, MI (LSZ242)
Upper Entrance of Portage Canal to Manitou Island, MI (LSZ243)
Manitou Island to Lower Entrance Light to Portage Lake, MI (LSZ244)
Keweenaw Bay and Huron Bay from Lower Entrance Light to Portage Lake to Huron Island, MI (LSZ221)
Huron Islands to Marquette, MI (LSZ245)
Marquette to Munising, MI (LSZ246)
Munising to Grand Marais, MI (LSZ247)
Grand Marais to Whitefish Point, MI (LSZ248)
Whitefish Bay (U.S. portion), Whitefish Point to Point Iroquois, MI (LSZ321)
St. Marys River, Point Iroquois to Eastern Potagannissing Bay (LSZ232)

LAKE MICHIGAN AND BAYS

Michigan Shore Line

Bay of Green Bay, MI (north of line from Cedar River, MI to Rock Island Passage)
(LMZ221)

Seul Choix Pt. to Point Detour, MI (LMZ248)
Seul Choix Point, MI to 5 nm west of Mackinac Bridge (LMZ341)
Norwood, MI to 5 nm west of Mackinac Bridge (LMZ342)
Grand Traverse Bay Norwood to Grand Traverse Light, MI (LMZ323)
Grand Traverse Light to Sleeping Bear Point, MI (LMZ344)
Sleeping Bear Point to Manistee, MI (LMZ345)
Pentwater to Manistee, MI (LMZ849)
Whitehall to Pentwater, MI (LMZ848)
Grand Haven to Whitehall, MI (LMZ847)
Holland to Grand Haven, MI (LMZ846)
South Haven to Holland, MI (LMZ845)
St. Joseph to South Haven, MI (LMZ844)
New Buffalo to St. Joseph, MI (LMZ843)
Michigan City, IN to New Buffalo, MI (LMZ746)

Wisconsin Shore Line

Rock Island Passage Sturgeon Bay, WI (LMZ541)
Sturgeon Bay, WI to Two Rivers, WI (LMZ542)
Two Rivers to Sheboygan, WI (LMZ543)
Sheboygan to Port Washington, WI (LMZ643)
Port Washington to North Point Light, WI (LMZ644)
North Point Light to Wind Point, WI (LMZ645)
Bay of Green Bay, WI (south of line from Cedar River to Rock Island Passage and north of a line from Marinette, WI to Fish Creek, WI) (LMZ521)
Bay of Green Bay, WI (south of a line from Marinette, WI to Fish Creek, WI)
(LMZ522)

Wind Point Light to Winthrop Harbor, IL (LMZ646)

Illinois Shore Line

Winthrop Harbor to Wilmette Harbor, IL (LMZ740)
Wilmette Harbor to Meigs Field, IL (LMZ741)
Meigs Field to Calumet Harbor, IL (LMZ742)

Indiana Shore Line

Calumet Harbor to Gary Harbor, IN (LMZ743)
Gary to Burns Harbor, IN (LMZ744)
Burns Harbor to Michigan City, IN (LMZ745)

LAKE HURON, BAYS AND LAKES

Michigan Shore Line

Straits of Mackinac within 5 nm of Mackinac Bridge including Mackinac Island
(LHZ345)

St Ignace to False Detour Channel, MI (LHZ346)

5 nm east of Mackinac Bridge to Presque Island Light, MI
including Bois Blanc Island (LHZ347)

Presque Isle Light to Sturgeon, MI including Thunder Bay Marine Sanctuary (LHZ348)

Sturgeon Point to Alabaster, MI (LHZ349)

Port Austin to Harbor Beach, MI (LHZ441)

Harbor Beach to Port Sanilac, MI (LHZ442)

Port Sanilac to Port Huron, MI (LHZ443)

Outer Saginaw Bay SW Alabaster to Point Austin, MI to Inner Saginaw Bay (LHZ421)

Inner Saginaw Bay SW of Point Au Gres to Bay Port, MI (LHZ422)

St. Clair River (LCZ422)

Lake St. Clair, MI (U.S. Portion) (LCZ460)

LAKE ERIE AND BAYS

Michigan Shore Line

Detroit River (LCZ423)

Michigan Waters of Lake Erie from Detroit River to North Cape, MI (LEZ444)

Ohio Shore Line

Maumee Bay to Reno Beach, OH (LEZ142)

Reno Beach to The Islands, OH (LEZ143)

The Islands to Vermilion, OH (LEZ144)

Vermilion to Avon Point, OH (LEZ145)

Avon Point to Willowick, OH (LEZ146)

Willowick to Geneva-on-the-Lake, OH (LEZ147)

Geneva-on-the-Lake to Conneaut, OH (LEZ148)

Pennsylvania Shore Line

Conneaut, OH to Ripley, NY (LEZ149)

New York Shore Line

Ripley to Dunkirk, NY (LEZ040)

Dunkirk to Bullalo, NY (LEZ041)

Buffalo Harbor and the Upper Niagara River, NY (LEZ020)

LAKE ONTARIO AND RIVERS

New York Shore Line

Niagara River to Thirty-Mile Point, NY (LOZ042)

Thirty-Mile Point to Sodus Bay, NY (LOZ043)

Sodus Bay to Mexico Bay, NY (LOZ044)

Mexico Bay, NY to the St. Lawrence River (LOZ045)

St. Lawrence River above Ogdensburg, NY (SLZ022)

St. Lawrence River from Ogdensburg to St. Regis, NY (SLZ024)

Author: Timothy Rulon, Office of Meteorology,

National Weather Service

Last Modified August 15, 2001

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NATIONAL WEATHER SERVICE MARINE TEXT PRODUCTS
COASTAL FORECASTS by ZONE for ALASKA

This file is intended to assist mariners using the FTPMAIL system which is used to obtain National Weather Service products via e-mail. The following is an example in the use of the FTPMAIL system. NOTE CAPITALIZATION!

Send an e-mail to: ftpmail@weather.noaa.gov
Subject Line: Put anything you like
Body: open
cd data
cd forecasts
cd marine
cd coastal
cd pk
get pkz100.txt
get pkz210.txt
get pkz113.txt
get pkz291.txt
quit

The "help" file contains a more detailed description of the FTPMAIL system and available products. To obtain a copy of the FTPMAIL "help file".

Send an e-mail to: ftpmail@weather.noaa.gov
Subject Line: Put anything you like
Body: help

COASTAL FORECASTS by ZONE for ALASKA

Please note that many zones will contain identical forecast information at times.

These files may be found in directory:
ftp://weather.noaa.gov/data/forecasts/marine/coastal/pk

Synopsis for Eastern Gulf Coast and Southeast Alaska (PKZ100)
Eastern Gulf Coast Cape Fairweather to Cape Sukling, AK - Area 2A (PKZ210)
Southeast Alaska, Lynn Canal and Glacier Bay - Area 1A1 (PKZ113)
Southeast Alaska, Icy Strait and Cross Sound - Area 1A2 (PKZ114)
Southeast Alaska, Stephens Passage, Chatham Strait, AK - Area 1A3 including Frederick Sound (PKZ115)
Southeast Alaska, Outer Waters, Dixon Entrance to Cape Fairweather, AK - Area 1B
outer waters (PKZ120)
Yakutat Bay - Area 2A1 (PKZ211)
Outlook for Yakutat Bay, AK (PKZ291)
Outlook for Eastern Gulf & Southeast Alaska (PKZ190)
Synopsis for North Gulf of Alaska Coast waters (PKZ200)
Cape Sukling to Gore Point, AK - Area 2B (PKZ220)
Resurrection Bay - Area 2B1 (PKZ221)
Prince William Sound, AK - Area 2C (PKZ230)
Passage Canal, AK - Area 2C4 (PKZ233)
Port Valdez Area 2C1 (PKZ231)
Valdez Narrows, and Valdez Arm - Areas 2C2 and 2C3 (PKZ232)
Outlook for Valdez Port, Narrows & Arm, AK (PKZ292)
Outlook for North Gulf of Alaska Coast waters (PKZ290)
Synopsis for Kodiak Island waters and Cook Inlet (PKZ301)
Barren Island and Kamishak Bay - Area 3A (PKZ310)

Shuyak Island to Sitkinak, AK - Area 3B (PKZ320)
Chiniak and Marmot Bay - Areas 3B1 and 3B2 (PKZ320)
Outlook for Chiniak and Marmot Bay (PKZ391)
Shelikof Strait, AK - Area 3C (PKZ330)
Cook Inlet, north of Kamishak Bay and English Bay - Area 4 (PKZ400)
Kachemak Bay - Area 4A (PKZ410)
Outlook for Kodiak Island waters and Cook Inlet (PKZ390)
Synopsis for Bristol Bay and Alaska Peninsula waters (PKZ500)
Coastal waters from South of Alaska Peninsula, Sitkinak to Castle Cape, AK - Area 5A (PKZ510)
Coastal waters from South of Alaska Peninsula, Castle Cape to Cape Sarichef, AK - Area 5B (PKZ520)
Bristol Bay, north portion from Cape Newenham to Port Heiden - Area 6A (PKZ610)
Bristol Bay, south portion from Port Heiden to Cape Sarichef - Area 6B (PKZ620)
Outlook for Bristol Bay and Alaska Peninsula (PKZ590)
Synopsis for Southwest Alaska Coastal waters and Aleutian Islands (PKZ805)
Cape Newenham to Dall Point - Area 8 (PKZ800)
Eastern Aleutian Islands, Cape Sarichef to Nikolski, AK - Area 12A (PKZ121)
Eastern Aleutian Islands, Nikolski to Adak, AK Area 12B (PKZ122)
Unalaska Bay - Area 12A1 (PKZ123)
Western Aleutian Islands, Adak to Attu, AK - Area 13 (PKZ130)
Outlook for Aleutian Island waters (PKZ191)
Pribilof Islands Nearshore within 5 nm of Islands - Area 15 (PKZ150)
Outlook for Pribilof Island waters (PKZ193)
Norton Sound, Sledge Island to Nunaktuk Island - Area 9A (PKZ091)
Outlook for Norton Sound (PKZ095)
Dall Point to Wales, AK - Area 9B including St. Lawrence Islands Waters (PKZ092)
Outlook for Southwest Alaska Coastal waters and Aleutian Islands (PKZ890)
Synopsis for Western and Arctic Alaskan Coastal waters (PKZ103)
Wales to Cape Lisburne, AK - Area 10B (PKZ102)
Western Arctic Coast, Cape Lisburne to Cape Halkett, AK - Area 11A (PKZ111)
Eastern Arctic Coast, Cape Halkett to Demarcation Point, AK - Area 11B (PKZ112)
St. Matthews Island waters - Area 14 (PKZ140)
Kotzebue Sound East of Cape Espenburg & Cape Krusenstern, AK - Area 10A Sound (PKZ101)
Outlook for Western and Arctic Coastal waters (PKZ194)

Author: Timothy Rulon, Office of Meteorology,
National Weather Service

Last Modified August 30, 2000

Document URL: <http://weather.noaa.gov/pub/fax/marine9.txt>
<ftp://weather.noaa.gov/fax/marine9.txt>

NATIONAL WEATHER SERVICE MARINE TEXT PRODUCTS
COASTAL FORECASTS by ZONE for HAWAII and MICRONESIA

This file is intended to assist mariners using the FTPMAIL system which is used to obtain National Weather Service products via e-mail. The following is an example in the use of the FTPMAIL system. NOTE CAPITALIZATION!

```
Send an e-mail to:      ftpmail@weather.noaa.gov
Subject Line:          Put anything you like
Body:                 open
                       cd data
                       cd forecasts
                       cd marine
                       cd coastal
                       cd ph
                       get phz100.txt
                       get phz150.txt
                       get phz130.txt
                       get phz190.txt
                       quit
```

The "help" file contains a more detailed description of the FTPMAIL system and available products. To obtain a copy of the FTPMAIL "help file".

```
Send an e-mail to:      ftpmail@weather.noaa.gov
Subject Line:          Put anything you like
Body:                 help
```

COASTAL FORECASTS by ZONE for HAWAII and TRUST TERRITORIES

Please note that many zones will contain identical forecast information at times.

These files may be found in directory:
ftp://weather.noaa.gov/data/forecasts/marine/coastal/ph (ph, pm, ps, etc.)

Hawaii

- Synopsis for Hawaiian Waters (PHZ100)
- Hawaiian Coastal Waters (PHZ150)
- Channels between the Islands (PHZ130)
- Outlook for Hawaiian Waters (PHZ190)

Guam

- Synopsis for Marianas Waters (PMZ150)
- Guam Coastal Waters (PMZ151)

Commonwealth of the Northern Marianas Islands

- Rota Coastal Waters (PMZ152)
- Tinian Coastal Waters (PMZ153)
- Saipan Coastal Waters (PMZ154)

The Republic of Palau

- Koror Palau Coastal Waters (PMZ161)

The Federated States of Micronesia

- Yap Coastal Waters (PMZ171)
- Chuuk Coastal Waters (PMZ172)
- Pohnpei Coastal Waters (PMZ173)
- Kosrae Coastal Waters (PMZ174)

The Republic of the Marshall Islands
Majuro Coastal Waters (PMZ181)

American Samoa

Synopsis for American Samoa Coastal Waters (PSZ100)
Coastal Waters of Tututila and Aunuu Islands (PSZ150)
Coastal Waters of Manua Islands (PSZ151)
Coastal Waters of Swains Island (PSZ152)

Author: Timothy Rulon, Office of Meteorology,
National Weather Service
Last Modified July 25, 2001
Document URL: <http://weather.noaa.gov/pub/fax/marine10.txt>
<ftp://weather.noaa.gov/fax/marine10.txt>

National Hurricane Center Listserver

Tropical Cyclone text products released by the National Hurricane Center are available by email. Products from the Central Pacific Hurricane Center are not available using this Listserver (see FTPMAIL server below). This Listserver allows you to subscribe and unsubscribe to any of the six lists currently offered. The lists are arranged by region (Atlantic and E. Pacific), with the choice of receiving just the Public Advisories and any updates or position estimates, along with the Tropical Weather Outlook, just the Forecast/Advisories and any updates or position estimates, along with the Tropical Weather Outlook, or you can opt for the full suite of Tropical Cyclone advisories and the Tropical Weather Outlook.

Please Note: This is an experimental service. Interruptions or duplications in email deliveries while we test the system are to be expected. Notices will be sent if any extended interruptions are encountered. Although there is no charge for the service, users should be aware of the costs for operating their particular email system before attempting to use this Listserver, especially when using satellite communication systems.

Disclaimer: This server may not be available 24 hours a day, seven days a week. Timely delivery of data and products from this server through the Internet is not guaranteed. Please read the full Disclaimer (<http://www.nws.noaa.gov/disclaimer1.html>) for more information.

Privacy: You must submit a valid email address to subscribe to the service. The server will reply to the address given to verify that the address is valid. The email address is stored on the server only as long as you are subscribed to the service. Please read the NHC/TPC Privacy Statement (<http://www.nhc.noaa.gov/privacy.html>) for full details on information gathered by the website.

The following products are available via email for the indicated areas during the hurricane season (June 1 through November 30 for the Atlantic, May 15 through November 30 for the Eastern Pacific):

Tropical Weather Outlook*	(Atlantic and E Pacific 4 times a day)
Forecast/Advisory	(Atlantic and E Pacific)
Public Advisory	(Atlantic always, E Pacific only when land is threatened)
Discussion	(Atlantic and E Pacific)
Probabilities	(Atlantic only)
Update	(Atlantic and E Pacific...intermittent)
Position Estimate	(Atlantic and E Pacific...intermittent)
Special Tropical Disturbance Statement	(Atlantic and E Pacific...intermittent)

*The Tropical Weather Outlook is sent to all lists for each region.

Please note that there is overlap in the lists, so that, for example, subscribing to both the FULL and PUBLIC ADVISORIES ONLY lists for the same region will generate some duplicate email notices. It is suggested that you subscribe to only one list per region.

To subscribe or unsubscribe send an empty email to the following addresses as follows:

To subscribe:

Atlantic (Public Advisories and updates ONLY)
mail-storm-atlan-subscribe@nhc.noaa.gov

Atlantic Marine (Forecast/Advisories and updates ONLY)
mail-storm-atlan-marine-subscribe@nhc.noaa.gov

Atlantic Full (All Advisories and updates)
mail-storm-atlan-full-subscribe@nhc.noaa.gov

E Pacific (Public Advisories and updates ONLY)
mail-storm-epac-subscribe@nhc.noaa.gov

E Pacific Marine (Forecast/Advisories and updates ONLY)
mail-storm-epac-marine-subscribe@nhc.noaa.gov

E Pacific Full (All Advisories and updates)
mail-storm-epac-full-subscribe@nhc.noaa.gov

To unsubscribe:

Atlantic (Public Advisories and updates ONLY)
mail-storm-atlan-unsubscribe@nhc.noaa.gov

Atlantic Marine (Forecast/Advisories and updates ONLY)
mail-storm-atlan-marine-unsubscribe@nhc.noaa.gov

Atlantic Full (All Advisories and updates)
mail-storm-atlan-full-unsubscribe@nhc.noaa.gov

E Pacific (Public Advisories and updates ONLY)
mail-storm-epac-unsubscribe@nhc.noaa.gov

E Pacific Marine (Forecast/Advisories and updates ONLY)
mail-storm-epac-marine-unsubscribe@nhc.noaa.gov

E Pacific Full (All Advisories and updates)
mail-storm-epac-full-unsubscribe@nhc.noaa.gov

If you desire to receive hurricane advisories from the Central Pacific Hurricane Center, or other NWS forecast products only as requested, the NWS FTPMAIL server will be more appropriate for your needs. To obtain the FTPMAIL "Help" file:

Send an e-mail to: ftpmail@weather.noaa.gov
Subject Line: Put anything you like
Body: help

If you have access to the World Wide Web be certain to check out the following webpages. See these pages for further links.

<http://www.nws.noaa.gov> NWS Homepage
<http://www.nws.noaa.gov/om/marine/home.htm> NWS Marine Page

A non-NWS FAQ webpage describing several public FTP-to-EMAIL and WWW-to-EMAIL servers may be found at:

<http://www.faqs.org/faqs/internet-services/access-via-email/>

Author: Timothy Rulon
National Weather Service
Last Modified February 23, 2001
Document URL: <http://weather.noaa.gov/pub/fax/nhclist.txt>
 <ftp://weather.noaa.gov/fax/nhclist.txt>

University of Illinois Listserver for Marine Applications

Note: The following provided information does not imply any endorsement by the National Weather Service as to function or suitability for your purpose or environment.

These Lists provide an automated means to receive NWS hurricane forecast products via e-mail. However, performance may vary and receipt cannot be guaranteed by either UIUC or the National Weather Service

The University of Illinois at Urbana-Champaign (UIUC) operates an e-mail Listserver of which two Lists, WX-ATLAN, and WX-TROPL are of special interest to mariners who do not have direct access to the World Wide Web but who are equipped with an e-mail system. These Lists provide an automated means to receive hurricane information via e-mail. Information on this system may be found at:
<http://ralph.centerone.com/wxlist/>

Users should be aware of the costs for operating their particular e-mail system before attempting to use this List server, especially when using satellite communication systems. Although the service is free, the user is responsible for any charges associated with the communication system(s) used by their e-mail system. As this List server will send requested data on a continuous basis until service is successfully terminated, potential charges might be significant.

As a general guide, National Weather Service hurricane products average 1 Kbyte each in length. The tropical weather OUTLOOK is transmitted on a 6 hour cycle during the hurricane season. Other products are transmitted when active systems exist, on a 6 hour cycle (one series of products for each storm). Products may be transmitted more often as the systems approach landfall, to make corrections, etc. The Lists may contain products in addition to those produced by the National Weather Service.

This List server is not operated or maintained by the National Weather Service, please direct all questions to Chris Novy at: chris@siu.edu

National Weather Service hurricane products may also be found on the World Wide Web at links including:

<http://www.nhc.noaa.gov>
<http://www.nws.noaa.gov/om/marine/forecast.htm>

Below are an abbreviated set of instructions for the WX-ATLAN and WX-TROPL Lists on the UIUC List server.

****WX-ATLAN INFORMATION****

This list contains topical weather outlooks, hurricane position reports, etc. It is most active from June through December. Portions of the products on this list may be in abbreviated (coded) format.

To subscribe to WX-ATLAN send e-mail to LISTSERV@PO.UIUC.EDU and include the following message:

sub wx-atlan YourFirstName YourLastName

To signoff WX-ATLAN send e-mail to LISTSERV@PO.UIUC.EDU and include the following message:

```
signoff wx-atlan
```

WX-ATLAN mailings are subdivided based on product category. There is presently no way to restrict mailings to a specific storm. By default, when you first subscribe, you will receive ONLY the brief outlook (OUTLOOK) The available sub-topics are:

```
OUTLOOK = Brief discussions concerning development trends [ABNT20]
TROPDISC = Detailed discussions concerning development trends [AXNT20]
FORECAST = Storm forecasts (wind and sea height estimates) [WTNT2x]
ADVISORY = Storm status reports (movement, wind speeds, etc) [WTNT3x]
STRMDISC = Discussion reports concerning a specific storm [WTNT4x]
POSITION = Position reports [WTNT5x]
UPDATE = Storm updates (they often cites recon reports) [WTNT6x]
STRIKE = Strike probabilities (landfall probabilities) [WTNT7x]
ALL = All sub-topics
RECON = URNT12 FOS header Vortex messages
```

To receive bulletins from just one specific product say the strike probabilities, send e-mail to LISTSERV@PO.UIUC.EDU with the following:

```
SET WX-ATLAN TOPICS: STRIKE
```

You can also use combinations of the keywords for multiple products. For example:

```
SET WX-ATLAN TOPICS: STRIKE,POSITION,TROPDISC
```

Notes: If you have previously specified a list of sub-topics and now you want to add or delete specific sub-topics, prefix them with a (+) or (-) respectively. For example, to add ADVISORY and delete TROPDISC (while leaving any other sub-topics alone) you would send the command:

```
SET WX-ATLAN TOPICS: +ADVISORY -TROPDISC
```

You *must* already be subscribed to WX-ATLAN in order to use the sub-topic commands.

```
****WX-TROPL TROPICAL INFORMATION****
```

This list contains topical weather outlooks, hurricane position reports, etc. Portions of the products on this list may be in abbreviated (coded) format.

NOTE: For Atlantic and Gulf of Mexico information see the WX-ATLAN list.

To subscribe to WX-TROPL send e-mail to LISTSERV@PO.UIUC.EDU and include the following message:

```
sub wx-tropl YourFirstName YourLastName
```

To signoff WX-TROPL send e-mail to LISTSERV@PO.UIUC.EDU and include the following message:

```
signoff wx-tropl
```

WX-TROPL mailings are subdivided into geographic regions. By default, new subscribers will receive ALL bulletins. We have set up sub-topic areas for a number of geographically related regions:

PACIFIC-EN = Pacific Ocean Eastern Northern region (90W to 140W)
PACIFIC-NC = Pacific Ocean North Central region (140W to 180W)
PACIFIC-NW = Pacific Ocean Northwest region (100E to 180E)
PACIFIC-SW = Pacific Ocean Southwest (120E to 180E south of Equator)
INDIAN-N = Indian Ocean (North) (100E to 40E north of Equator)
INDIAN-S = Indian Ocean (South) (120E to 40E south of Equator)
PACIFIC-SE = Pacific Ocean Southeast Region

To receive bulletins from just one specific region, say the northwest Pacific Ocean, send e-mail to LISTSERV@PO.UIUC.EDU with the following:

SET WX-TROPL TOPICS: PACIFIC-NW

You can also use combinations of the keywords for multiple areas. For example:

SET WX-TROPL TOPICS: PACIFIC-EN, PACIFIC-NW

Notes: If you have previously specified a list of sub-topics and now you want to add or delete specific sub-topics, prefix them with a (+) or (-) respectively. For example, to add PACIFIC-NW and delete INDIAN-N (while leaving any other sub-topics alone) you would send the command:

SET WX-TROPL TOPICS: +PACIFIC-NW -INDIAN-N

You *must* already be subscribed to WX-TROPL in order to use the sub-topic commands.

If you wish to receive National Weather Service hurricane products via e-mail only upon individual request , the NWS FTPMAIL server may be more appropriate for your needs.

NWS FTPMAIL SERVER

National Weather Service radiofax charts broadcast by U.S. Coast Guard from Boston, New Orleans and Pt. Reyes, California are available via e-mail. Marine text products are also available. The FTPMAIL server is intended to allow Internet access for mariners and other users who do not have direct access to the World Wide Web but who are equipped with an e-mail system. Turnaround is generally in under three hours, however, performance may vary widely and receipt cannot be guaranteed. To get started in using the NWS FTPMAIL service, follow these simple directions to obtain the FTPMAIL "help" file (6 Kbytes).

Send an e-mail to: ftpmail@weather.noaa.gov
Subject line: Put anything you like
Body: help

or available at: <http://weather.noaa.gov/pub/fax/ftpmail.txt>

National Weather Service, NOAA
1325 East West Highway
Silver Spring, MD 20910

Webpage Content: Tim Rulon, NWS Office of Meteorology
Last Modified: November 17, 1999
Document URL: <http://weather.noaa.gov/pub/fax/uiucllist.txt>
<ftp://weather.noaa.gov/fax/uiucllist.txt>

AMVER/SEAS

In Pursuit of Safety At Sea

Under a cooperative agreement between the National Oceanic and Atmospheric Administration (NOAA) and the U. S. Coast Guard (USCG), software has been created to assist Volunteer Observing Ships (VOS) in submitting marine weather reports and participating in the Automated Mutual-assistance Vessel Rescue system (AMVER). The VOS program allows ships to report marine weather to the National Weather Service (NWS) so that high seas forecasts will be as timely and accurate as possible. The AMVER system allows ships to report their intended track so that in the event of an emergency all available resources may be focused on aiding ships in distress. Both of these systems are voluntary and are intended to aid all mariners on the high seas. All transmission costs are paid by the U.S. Coast Guard and NOAA. The ship is not responsible for any transmission costs, provided messages are sent to the address specified in the user's guide.

NOAA's SEAS (Shipboard Environmental data Acquisition System) program relies on volunteer observers to report weather at least four times per day at 00Z, 06Z, 12Z, and 18Z. Ships are encouraged to also submit reports at 03Z, 09Z, 15Z and 21Z. In addition, a very limited number of ships are asked to collect oceanographic data. For these ships, a SEAS field representative installs the extra hardware needed and trains the crew in collecting and transmitting the data. Portions of the software needed for these observations are password protected to eliminate confusion.

AMVER reports allow the U. S. Coast Guard to track a vessel's position. The AMVER program relies on ships to submit four types of reports: (1) Sail Plans; (2) Position Reports; (3) Arrival Reports and (4) Deviation Reports, when necessary. The U. S. Coast Guard updates their database with the position information from these reports, which allows them to identify vessels in the vicinity of a ship in distress.

Ships may participate in either the AMVER or SEAS program, but there are benefits to participating in both. A ship can reduce reporting requirements, since AMVER position reports are created from every weather message and automatically forwarded to the U.S. Coast Guard.

A typical voyage would require the submission of an AMVER Sail Plan before departure, submissions of weather reports four times per day and the submission of an Arrival Report upon arrival. A Deviation Report is only submitted if the ship deviates from its original plan. Ships that follow the same routes repeatedly get an additional benefit since Sail Plans can be stored in the system and recalled and modified rather than creating new ones.

The AMVER/SEAS PC software was developed for use with INMARSAT C transceivers. For those ships already participating in the SEAS program, GOES transmitters will continue to work for the transmission of SEAS observations. To participate in the AMVER program the ship must possess an INMARSAT C transmitter with a floppy drive and the ability to send messages in binary format, and a 286 (or better) IBM compatible PC.

A Windows 95/98/00/ME/NT version of AMVER/SEAS is now available.

For Information on SEAS contact:

Your nearest U.S. Port Meteorological Officer or SEAS representative listed in the Appendix.

For Information on AMVER contact:

Rick Kenney 1-212-668-7762
e-mail: rkenney@battery.ny.uscg.mil

or visit the SEAS website at:

<http://seas.nos.noaa.gov/seas/>

USEFUL MARINE WEATHER PUBLICATIONS

Marine Service Charts (MSC) - \$1.25¹

Marine Service Charts (MSC) list frequencies, schedules and locations of stations disseminating NWS products. They also contain additional weather information of interest to the mariner. Charts are also available via the Internet at: <http://www.nws.noaa.gov/om/marine/pub.htm>.

<u>Location</u>	<u>Number</u>
Eastport, ME to Montauk Point, NY	MSC-1
Montauk Point, NY to Manasquan, NJ	MSC-2
Manasquan, NJ to Cape Hatteras, NC	MSC-3
Cape Hatteras, NC to Savannah, GA	MSC-4
Savannah, GA to Apalachicola, FL	MSC-5
Apalachicola, FL to Morgan City, LA	MSC-6
Morgan City, LA to Brownsville, TX	MSC-7
Mexican Border to Point Conception, CA	MSC-8
Point Conception, CA to Point St George, CA	MSC-9
Point St George, CA to Canadian Border	MSC-10
Great Lakes	MSC-11/12
Hawaiian Waters	MSC-13
Puerto Rico and Virgin Islands	MSC-14
Alaskan Waters	MSC-15
Guam and the Northern Mariana Islands	MSC-16

OTHER PUBLICATIONS OF VALUE TO THE MARINER

Mariner's Weather Log Magazine - \$16.00/3 issues/yr (\$20.00 foreign)³

Selected Marine Worldwide Weather Broadcasts (9/92)⁵

NWS Observing Handbook NO.1 (4/99)⁶

Worldwide Marine Radiofacsimile Broadcast Schedules (04/01)⁴

NOAA Weather Radio Brochure (NOAA/PA 94070, 3/97) Free²

NOAA Weather Radio Handout (NOAA/PA 94061, 3/97) Free²

A Mariners Guide to Marine Weather Services (NOAA/PA 92056) Free²

Safe Boating Weather Tips (NOAA/PA 94058, 6/98) Free²

World Meteorological Organization Publication 9 - Weather Reporting,
Volume D - Information for Shipping (Broadcast Schedules)¹⁵

NIMA Publication 117 "Radio Navigational Aids" (2001)...Includes CD¹³

American Practical Navigator (Bowdich) Publication 9¹³

Pilot Chart Atlas - 5 areas¹³

Sailing Directions - 42 volumes¹³

U.S. Notices to Mariners¹⁴

Summary of Notice to Mariners Corrections¹³

The Future in Marine Radio Communications - GMDSS (1998) Free⁹

Maritime Navigational Safety Information Sources, (9/94) \$8⁷

Maritime Radio Users Handbook (1992) \$12⁷

The British Admiralty List of Signals⁸

Volume 1 Coast Radio Stations (2 parts)

Volume 2 Radio Navigational Aids

Volume 3 Radio Weather Services & Navigational Warnings (2 Parts)

Volume 4 Meteorological Observation Stations

Volume 5 Global Maritime Distress and Safety Systems

Volume 6 Port Operations & Pilot Services (2 parts)

Volume 7 Vessel Traffic Systems & Reporting Points (2 parts)

Volume 8 Satellite Navigation Systems

Directory of Private Weather Services - Free¹⁰
TSUNAMI The Great Waves - Free¹¹
International SafetyNET Manual, 1994; IMO-908E¹²
NAVTEX Manual, 1994; IMO-951E¹²
GMDSS Handbook, 1995 (Includes GMDSS Master Plan); IMO-970E¹²
SOLAS Consolidated Edition, 1997; IMO-110E¹²
Mariners Guide for Hurricane Awareness in the North Atlantic Basin (large file 2.3 MB PDF format)
(<http://www.nhc.noaa.gov/marinersguide.pdf>)
U.S. NAVY Hurricane Havens/Heavy Weather Handbooks
(<https://www.cnmoc.navy.mil/nmosw/handbk.htm>)
Radiofacsimile Charts User's Guide (large file 2.2 MB PDF format)
(<http://www.mpc.ncep.noaa.gov/UsersGuide/UG.pdf>)

1. FAA Distribution Division (AVN-530)
National Aeronautical Charting Office
6501 Lafayette Avenue
Riverdale, MD 20737-1199
(301)-436-8301
(800)-638-8972
(301)-436-6829 FAX
Email: distribution@noaa.gov
<http://chartmaker.ncd.noaa.gov>
or your local chart agent: <http://chartmaker.ncd.noaa.gov/nsd/states.html>
2. Available Internet: Via <http://www.nws.noaa.gov/om/public.htm>
Or from your local National Weather Service Forecast Office.
3. Superintendent of Documents
P.O. Box 371954
Pittsburgh, PA 15250-7954
(202)-512-2250
(202)-512-1800 FAX
<http://www.gpo.gov>
<http://www.nws.noaa.gov/om/mwl/mwl.htm>
(Distributed free to ships in VOS program)
4. (Printed copies available only to ships participating in U.S. VOS program)
web version <http://www.nws.noaa.gov/om/marine/home.htm>
National Weather Service
Assistant VOS Program Manager
Robert "Luke" Luke
NDBC Bldg #1100
Stennis Space Center, MS 39529
1-228-688-1457 1-228-688-3153 (fax)
robert.luke@noaa.gov
<http://www.vos.noaa.gov>
5. Joint Publication of National Weather Service and Naval Oceanography Command
Currently out of date, out of print.
Tim Rulon, NOAA
Marine Communications Program Manager
National Weather Service W/OS21
1325 East-West Highway
Silver Spring, MD 20910
1-301-713-1677 x128 1-301-713-1598 (fax)
timothy.rulon@noaa.gov
marine.weather@noaa.gov
<http://www.nws.noaa.gov/om/marine/home.htm>

6. (Available only to ships participating in U.S. VOS program)
National Weather Service
Assistant VOS Program Manager
Robert "Luke" Luke
NDBC Bldg #1100
Stennis Space Center, MS 39529
1-228-688-1457
1-228-688-3153 (fax)
robert.luke@noaa.gov
<http://www.vos.noaa.gov>

7. Radio Technical Commission for Maritime Services (RTCM)
1800 Diagonal Rd. , Suite 600
Alexandria, VA 22314-2840
(703)-684-4481
(703)-836-4229 (FAX)
information@rtcm.org
<http://www.rtc.org>
(New revisions in process)

8. UK Hydrographic Office
Admiralty Way, Tauton, Somerset
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+44(0) 1823 323753 FAX
info@hydro.gov.uk
<http://www.ukho.gov.uk>

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(202)-267-4106 (FAX)
cgcomms@comdt.uscg.mil
<http://www.navcen.uscg.gov/marcomms/gmdss/#Brochure>
<http://www.navcen.uscg.gov/marcomms/marcomms.htm>

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(301)-713-0610
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<http://www.nws.noaa.gov/im>

11. International Tsunami Information Center
737 Bishop St. Suite 2200
Honolulu, HI 96813-3213
808-532-6422
808-532-5576 (FAX)
itic@itic.noaa.gov
<http://www.nws.noaa.gov/pr/hq/itic.htm>

12. International Maritime Organization (IMO)
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Telex: 23588
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13. Superintendent of Documents
P.O. Box 371954
Pittsburgh, PA 15250-7954
(202)-512-2250
(202)-512-1800 FAX
<http://www.gpo.gov>
(NIMA product distribution is presently in a transition process from
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14. Defense Supply Center-Richmond, Customer Assistance
ATTN: Product Center 9
8000 Jefferson Davis Highway
Richmond, VA 23297-5337
1-800-826-0342
<http://164.214.2.59:80/Navigation/ntm/index.cfm>

15. American Meteorological Society
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45 Beacon Street
Boston, MA 02108 USA
1-617-227-2425 Fax: 1-617-742-8718
wmopubs@ametsoc.org
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NOAA WEATHER RADIO NETWORK

COASTAL STATIONS

- (1) 162.55 mHz Channel numbers, e.g. (1, 2, 3) etc. have no special significance but are often
 (2) 162.40 mHz designated this way in consumer equipment. Other channel numbering
 (3) 162.475 mHz schemes are also prevalent. Most VHF marine radiotelephones sold in the
 (4) 162.425 mHz U.S. have the ability to receive NOAA Weather Radio broadcasts.
 (5) 162.45 mHz
 (6) 162.50 mHz
 (7) 162.525 mHz

ALASKA*		DELAWARE		HAWAII	
ANCHORAGE	1	LEWES	1	HAWAII (Kulani Cone)	1
CORDOVA	2			HAWAII (South Point)	1
CRAIG	3	FLORIDA		KAUAI (Kokee)	2
DUTCH HARBOR	1	BELLE GLADE	2	MAUI (Mt. Haleakala)	2
HAINES	2	BETHLEHEM	5	OAHU (Mt. Kaala)	1
HOMER	2	DAYTONA BEACH	2	OAHU KAI (Hawaii Kai)	2
JUNEAU	1	EAST POINT	6		
KETCHIKAN	1	FORT MYERS	3	ILLINOIS	
KODIAK	1	FORT PIERCE	4	CRYSTAL LAKE	6
NOME	1	GAINESVILLE	3	CHICAGO	1
SEWARD	1	INVERNESS	2	LOCKPORT	4
SITKA	1	JACKSONVILLE	1		
SOLDOTNA	3	KEY WEST	2	INDIANA	
VALDEZ	1	LIVE OAK	5	FORT WAYNE	1
WHITTIER		MELBOURNE	1	MARION	5
WRANGELL	2	MIAMI	1	NORTH WEBSTER	4
YAKUTAT	2	NAPLES	7	SOUTH BEND	2
		OCALA	7		
ALABAMA		ORLANDO	3	LOUISIANA	
MOBILE	1	PANAMA CITY	1	BATON ROUGE	2
		PENSACOLA (MILTON)	2	BURAS	3
CALIFORNIA		SALEM	4	LAFAYETTE	1
EUREKA	2	SEBRING	6	LAKE CHARLES	2
LOS ANGELES	1	TALLAHASSEE	2	MORGAN CITY	3
MONTEREY	1	TAMPA	1	NEW ORLEANS	1
MONTEREY MARINE	5	TEA TABLE KEY	5		
PT. ARENA/UKIAH	1	VENICE	2	MASSACHUSETTS	
SACRAMENTO	1	WEST PALM BEACH	3	BOSTON	3
SAN DIEGO	2			HYANNIS (Camp Edwards)	1
SAN FRANCISCO	2	GEORGIA			
SAN LUIS OBISPO	1	BAXLEY	7	MARYLAND	
SANTA ANA	5	BRUNSWICK	4	BALTIMORE	2
SANTA BARBARA MARINE	3	HARIRA	6	HAGERSTOWN	3
SANTA BARBARA	2	METTER	4	SALISBURY	3
		SAVANNAH	2		
CONNECTICUT		WAYCROSS	3	MAINE	
MERIDEN	2			DRESDEN	3
NEW LONDON	1	GUAM		ELLSWORTH	2
		GUAM (Nimitz Hill)	2	FALMOUTH	1

* In Alaska, a network of low-power five-watt NOAA Weather Radio transmitters is being established at 27 U.S. Coast Guard sites located from the Dixon Entrance to Bristol Bay.

NOAA WEATHER RADIO NETWORK COASTAL STATIONS

MICHIGAN		NEW YORK		SOUTH CAROLINA	
ALPENA	1	BUFFALO	1	BEAUFORT	3
DETROIT	1	LITTLE VALLEY	4	CHARLESTON	1
FLINT	3	NEW YORK CITY	1	CONWAY/ Myrtle Beach	2
GAYLORD	6	RIVERHEAD	3	CROSS	3
GRAND RAPIDS	1	ROCHESTER	2	FLORENCE	1
HESPERIA	3	SYRACUSE	1		
HOUGHTON	2	WATERTOWN	3	TEXAS	
MARQUETTE	1			BAY CITY	4
ONONDAGA	2	OHIO		BEAUMONT	3
OSHTEMO	3	AKRON	2	BROWNSVILLE	1
SAULT STE MARIE	1	CLEVELAND	1	CORPUS CHRISTI	1
TRAVERSE CITY	2	SANDUSKY	2	GALVESTON	1
WEST BRANCH	5	TOLEDO	1	HOUSTON	2
WEST OLIVE	4			PHARR	2
		OREGON		PORT O'CONNOR	3
MINNESOTA		ASTORIA	2	VICTORIA	2
DULUTH	1	BROOKINGS	1		
BOGUS LAKE	2	COOS BAY	2	VIRGINIA	
		EUGENE	2	HEATHSVILLE	2
N. MARIANA ISLANDS		MEDFORD	2	NORFOLK	1
SAIPAN (Mt. Tapochau)	1	MT. ASHLAND	3	RICHMOND	3
		NEAHKAHNIE MTN.	4	WASH, DC (Manassas)	1
MISSISSIPPI		NEWPORT	1		
GULFPFORT	2	PORTLAND	1	VIRGIN ISLANDS	
		ROSEBURG	1	ST. THOMAS	3
NORTH CAROLINA		SALEM	3		
CAPE HATTERAS	3	TILLAMOOK	3	WASHINGTON	
LUMBER BRIDGE	7			NEAH BAY	1
MARGARETTSVILLE	5	PENNSYLVANIA		OLYMPIA	3
MAMIE	4	ERIE	2	PUGET SOUND	
NEW BERN	2	PHILADELPHIA	3	(Pt. Angeles)	4
WILMINGTON	1			SEATTLE (Cougar Mt.)	1
		PUERTO RICO			
NEW HAMPSHIRE		MARICAO	1	WISCONSIN	
CONCORD	2	SAN JUAN	2	GREEN BAY	1
				MILWAUKEE	2
NEW JERSEY		RHODE ISLAND		PARK FALLS	6
ATLANTIC CITY	2	PROVIDENCE	2	SHEBOYGAN	7
SOUTHARD	5			SISTER BAY	4

This table lists only coastal NOAA Weather Radio stations containing marine forecasts.
See National Weather Service Marine Service Charts for coverage areas.

