WORLDWIDE MARINE RADIOFACSIMILE BROADCAST SCHEDULES

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

NATIONAL WEATHER SERVICE

May 24, 2007

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 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 also 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.

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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. In several cases, unofficial reception reports have been received identifying the station as no longer being operational. 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 NGA Publication 117, the Canadian Coast Guard Radio Aids to Navigation (Canada Only) 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. These publications are HIGHLY recommended.

This document also includes information on how to obtain National Weather Service text forecasts, graphic forecasts, and marine observations via the Internet and e-mail (FTPMAIL). Mariners are highly encouraged to explore these options.

The accuracy of this publication depends on **YOUR** input.

Please direct comments, recommendations, and corrections for this publication to:

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National Weather Service W/OS21
1325 East-West Highway
Silver Spring, MD 20910 USA
1-301-713-1677 x128
1-301-713-1520 (fax)
timothy.rulon@noaa.gov
marine.weather@noaa.gov
http://www.nws.noaa.gov/om/marine/home.htm

AFRICA

NAIROBI, KENYA

CALL SIGNS 5YE 5YE	FREQUENCIES 9044.9 kHz 17447.5 kHz	TIMES ALL BROADCAST TIMES ALL BROADCAST TIMES	EMISSION F3C F3C		WER KW KW
5YE 5YE 5YE 5YE TIME CONT 0100/ SIGW 0140/ SIGW 0600/ SIGW 0630/ DMC- 0840/ DMC- 0800/ SIGW 0830/ FL180 0903/ FL300 0922/ FL390 1017/ SIG W 1037/ SIG W 1057/1638 SURF 1112/1653 850 H 1127/ 24-HC /1722 SIG W 1142/1802 H+24 1210/1820 FL180 1229/1839 FL180 1248/1858 FL300 1248/1858 FL300 1214/ FL340 2152/ FL340	9044.9 kHz 17447.5 kHz IENTS OF TRANSMISSION IX FL250 IX BELOW FL240 (1200) - ILAR FORECAST- FORM IX FL100-250 IX FL250 IX FL250 IX FL250	ALL BROADCAST TIMES ALL BROADCAST TIMES ON FORM NO. 585A NO. 2053 NO. 585A	F3C	6	KW
1345/ INDIA 1430/ LOW 1455/ 24-HC	N OCEAN ANALYSIS LEVEL CONVERGENCE 2 DUR CHANGE OF PRESS X FL100-250	ZONE SURE	120/576 120/576 120/576 120/576	0600 1200 1200 1200	

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

(INFORMATION DATED 1 VIII 2001) http://www.meteo.go.ke/comm/faxschedule.txt Update 03/2002 - Reported as having a RPM/IOC of 180/576 vs. 120/576

CAPE NAVAL, SOUTH AFRICA

CALL ZSJ ZSJ ZSJ ZSJ	. SIGNS	FREQUE 4014 7508 13538 18238	ENCIES kHz kHz kHz kHz kHz	TIMES 16Z-06Z (wh ALL BROAD ALL BROAD 06Z-16Z (wh	CAST TIME CAST TIME	ES ES	EMISSION F3C F3C F3C F3C	PC 10 10 10 10	KW KW
TIME	CONT	ENTS OF T	RANSMISSIO	N			RPM/IOC	VALID TIME	MAP AREA
0430 0500 0630 0730 0800 0915 1030 1100 1530 1700 2230	SURFACE A SURFACE P SURFACE A	PROG ROG CE LIMITS (HER BULLE NALYSIS(SI ROG NALYSIS(SI HER BULLE	OCT-MAR) ETINS FOR CO HIPPING) HIPPING) ETINS FOR CO	DASTAL WATER			120/576 120/576 120/576 120/576 120/576 RTTY (170 H 120/576 120/576 RTTY (170 H 120/576	0000 1200 1200 1200 Hz shift, 75 0600 0000 1200	ASXX FUXX FSXX AIAA Baud) ASXX FSXX ASXX
	1:20,000 Mer 1:20,000 Mer	cator cator	00S20W 05S15W 05S15W ast to edge of i	00S70E 05S60E 05S60E ce pack except N	60S50W 60S15W 60S15W NIC West	60S90 60S60 60S60	ĎΕ		

(INFORMATION DATED May 2005) http://www.weathersa.co.za/Marine/FrequencyShipFCBroadcast.jsp

ASIA

BEIJING (PEKING), CHINA

CALL SIGNS BAF6 BAF36 BAF4 BAF8 BAF9 BAF33	FREQUENCII 5526.9 kHz 8121.9 kHz 10116.9 kHz 14366.9 kHz 16025.9 kHz 18236.9 kHz			F3C F3C F3C F3C F3C F3C F3C F3C	6-8 6-8 10 15 ??	OWER 3 KW 8 KW KW KW KW 8 KW
TIME CON	TENTS OF TRANS	MISSION		RPM/IOC	VALID TIME	MAP AREA
0132 36HR/48HR 0154 TYPHOON 0216 36HR MININ 48HR MAXI 0238 24HR/48HR 60HR MININ 0300 SATELLITE 0406 500MB PLC 0428 48HR SURF 0450 SURFACE I 0724 SATELLITE 0746 TYPHOON 1126 TYPHOON 1148 TEST CHAF 1158 PROGRAM 1340 TYPHOON 1904 500MB PLC 1904 500MB PLC 1926 SURFACE I 0852 24HR PREC 1126 TYPHOON 1148 TEST CHAF 1158 PROGRAM 1340 TYPHOON 1904 500MB PLC 1926 SURFACE I 1948 TYPHOON 2134 24 HR SUR 2218 36HR/48HR	SURFACE PROG WARNING (IN ENG MUM TEMP PROG E PRECIPITATION I MUM TEMP PROG PICTURE ANALYS TTED DATA FACE PROG ANAL PICTURE ANALYS WARNING (IN ENG PRESSURE ANALYS WARNING (IN ENG TRACK PROG (2) RT (4) AMENDMENTS (4) WARNING (IN ENG PRESSURE ANALYS	SIS (1 MAY-30 SEP) GLISH & CHINESE)(1) /SIS CLISH AND CHINESE)(1) /SIS GLISH AND CHINESE)(1)		120/576 120/576	1200 1200 0000 0000 0000 1800 0000 0600 0000 00	EA EEEE EFH CJD EG ALD
NOTES: (1) (4)	IN CASE OF TY ON MONDAYS	PHOON				
MAP AREAS: A1 - C - D - E - F - G - H - I - J -	1:30,000,000 1:23,000,000 1:10,000,000 1:20,000,000 1:20,000,000 1:10,000,000 1:10,000,000 1:10,000,000 1:03,000,000	50N 105E, 50N 10N 085E, 10N 05S 033E, 04S 06N 085E, 03N	ERE 130W, 40N 040E, 160E, 45N 105E, 135E, 45N 066E, 130E, 43N 041E, 142E, 47N 063E, 145E, 42N 023E, 125E, 40N 040E, 120E, 33N 108E	45N 45N 20N 41N 48N 45N	130W 160E 150E 160E 168E 174E 150E 120E	

(INFORMATION DATED 11/1997, update 2005 – service probably ceased in 2002)

BEIJING (PEKING), CHINA

CALL SIGN	NS FREQUENCIES	TIMES	EMISSION	PO	WER
3SD	8461.9 kHz		F3C	10	KW
3SD	12831.9 kHz		F3C	10	KW
3SD	16903.9 kHz		F3C	30	KW
TIME	CONTENTS OF TRANSMISSIO	N	RPM/IOC	VALID TIME	MAP AREA

0755/1130 Wave Analysis, 24h forecast
10 Day SST 10th, 20th and 31st (or last day of the month)
10 day ice forecast on 9th, 19th and 29th (or the last day of the month)
(Date of Information Unknown) 120/576

TOKYO, JAPAN

CALL SIGNS	FREQUENCIES	TIMES	EMISSION	POWER
JMH	3622.5 kHz	ALL BROADCAST TIMES	F3C	5 KW
JMH2	7795 kHz	ALL BROADCAST TIMES	F3C	5 KW
JMH4	13988.5 kHz	ALL BROADCAST TIMES	F3C	5 KW

TIME	CONTENTS OF TRANSMISSION	RPM/IOC	VALID TIME	MAP AREA
0000/1200 0020/ 0040/ /1220 /1240	RETRANSMISSION OF 2200/0840 96HR SURFACE PRESSURE, PRECIP PROGS 120HR SURFACE PRESSURE, PRECIP PROGS 12/24/48/72HR OCEAN WAVE PROG 24 HR 500HPA TEMPERATURE AND 700HPA DEWPOINT DEPRESSION PROG 24HR 850HPA TEMPERATURE WIND AND 700HPA VERTICAL	120/576 120/576 120/576 120/576 120/576	1200 1200 0000 0000	C
/1251	P-VELOCITY PROG 36 HR 500HPA TEMPERATURE AND 700HPA DEWPOINT DEPRESSION PROG 36HR 850HPA TEMPERATURE WIND AND 700HPA VERTICAL P-VELOCITY PROG	120/576	0000	
0103/1303 0110/1310 0130/1330	TEST CHART METEOROLOGICAL SATELLITE PICTURE (MSAT) RETRANSMISSION OF 1019/0730	120/576 120/576 120/576	00/12	C'
0150/1350 0210/ 0229/	TROPICAL CYCLONE FORECAST(1) SEA SURFACE CURRENT, WATER TEMPERATURE AT 100M DEPTH (2) RADIO PREDICTION (3) RETRANSMISSION OF 0210 (2)	120/576 120/576 120/576	00/12	C'
0240/1440 0300/ 0320/1520 0340/ 0400/1540 /1620	SURFACE ANALYSIS SEA SURFACE WATER TEMPERATURE (2) THE FIRST RETRANSMISSION OF 0240/1440 BROADCAST SCHEDULE, MANUAL AMENDMENTS RETRANSMISSION OF 0150/1350 (1) RETRANSMISSION OF 0300 (2)	120/576 120/576 120/576 120/576 120/576 120/576	00/12	C'
0421/ 0440/ 0459/1640 0518/1700 /1719 0537/1739	OCEAN WAVE ANALYSIS (NORTH PACIFIC) COASTAL WAVE ANALYSIS 500HPA HEIGHT, TEMPERATURE 850HPA HEIGHT, TEMPERATURE, DEW POINT DEPRESSION COASTAL WAVE ANALYSIS (1) 24HR 500HPA HEIGHT, VORTICITY PROGNOSIS	120/576 120/576 120/576 120/576 120/576 120/576	0000 0000 00/12 00/12 1200 00/12	C" X C X
0548/ 0610/1750 0630/ /1810	24 HR SURFACE PRESSURE, PRECIPITATION PROGNOSIS 24HR SURFACE PRESSURE, WIND, FOG, ICING, SEA ICE PROG THE SECOND RETRANSMISSION OF 0240/1440 48/72 HR SURFACE PRESSURE, PRECIPITATION PROGNOSIS 36HR 500HPA HEIGHT, VORTICITY PROGNOSIS 36HR SURFACE PRESSURE, PRECIPITATION PROGNOSIS 24 HR 500HPA TEMPERATURE AND 700HPA DEWPOINT DEPRESSION PROG	120/576 120/576 120/576 120/576 120/576	0000 00/00 1200 1200	C'
/1832	24HR 850HPA TEMPERATURE WIND AND 700HPA VERTICAL P-VELOCITY PROG 36 HR 500HPA TEMPERATURE AND 700HPA DEWPOINT DEPRESSION PROG 36HR 850HPA TEMPERATURE WIND AND 700HPA VERTICAL P-VELOCITY PROG	120/576	1200	
/1850 0651/ 0710/1910 0730/ /1930 0750/1950 /2010 0809/	12/24/48/72HR OCEAN WAVE PROG 24HR WAVE PROG (NORTH PACIFIC) METEOROLOGICAL SATELLITE PICTURE (GOES-9) 24HR COASTAL WAVE PROG 24HR SURFACE PRESSURE, WIND, FOG, ICING, SEA ICE PROG TROPICAL CYCLONE FORECAST (1) 24HR COASTAL WAVE PROG (1) 36HR 500HPA HEIGHT, VORTICITY PROGNOSIS	120/576 120/576 120/576 120/576 120/576 120/576 120/576 120/576	1200 0000 06/18 0000 1200 06/18 1200 0000	C" C' X C' X
0820/ 0840/2040 /2100 0900/ 0920/2120 0940/2140 1000/	36HR SURFACE PRESSURE, PRECIPITATION PROGNOSIS 48HR SURFACE PRESSURE, WIND, FOG, ICING, SEA ICE PROG SURFACE ANALYSIS 48HR SURFACE PRESSURE, WIND, FOG, ICING, SEA ICE PROG RETRANSMISSION OF 0750 (1) THE FIRST RETRANSMISSION OF 0840/2040 RETRANSMISSION OF 0630/1950 RETRANSMISSION OF 0820	120/576 120/576 120/576 120/576 120/576 120/576	0000 06/18 1200	C' CC
/2200	48/72HR SURFACE PRESSURE, PRECIPITATION PROGNOSIS	120/576	12/12	

TOKYO, JAPAN

TIME	CONTENTS OF TRANSMISSION	RPM/IOC	VALID	MAP
1019/ /2220 1040/2240 1100/2300 1119/2320 1140/2340	SEA ICE CONDITION ANAL(4), 48HR & 168 HR PROGS(5) RETRANSMISSION OF 1719 RETRANSMISSION OF 0548/2040 RETRANSMISSION OF 0421/1930 RETRANSMISSION OF 0440/2010 RETRANSMISSION OF 0651/2100	120/576 120/576 120/576 120/576 120/576 120/576	LATEST	L/L'
NOTES:(1) (2) (3) (4) (5)	IN CASE OF TROPICAL CYCLONE EVERY TUESDAY AND FRIDAY ON THE 20TH AND 21ST. EVERY TUESDAY AND FRIDAY (SEASONAL) RETRANSMISSION: AT 0130 ON EVERY WEDNESDAY AND SATURDAY (SEASONAL). RETRANSMISSION: AT			
MAP AREAS	: C - 1:20,000,000 27N 062E, 51N 152W, 05S 106E, 02I C'-1:20,000,000 39N 066E, 39N 146W, 01S 113E, 01S C"-1:20,000,000 38N 067E, 39N 148W, 01S 112E, 01S L - 1:10,000,000 SEA OF OKHOTSK, NORTHERN SEA OF JAPA ADJACENT WATERS OF THE NORTH PA L'-1:05,000,000 49N 140E 49N 151E, 41N 140E 40I X - 1: 6,000,000 46N 107E, 43N 160E, 18N 118E, 17I	S 167E S 167E N, BO HAI, AI \CIFIC. N 149E	ND	

(INFORMATION DATED 01 MAR 2007) http://www.jma.go.jp/jma/kishou/177jmh/JMH-ENG.pdf

PEVEK, CHUKOTKA PENINSULA

CALL SIG	NS	FREQUENCIES 148 kHz	TIMES ALL BROADCAST TIMES	EMISSIOI F3C	N PC	OWER
TIME	CONTE	ENTS OF TRANSMISSIC	ON	RPM/IOC	VALID TIME	MAP AREA
0530-0730 1130-1330 1430-1630	ICE ICE ICE			90/576 90/576 90/576		
(INFORMAT	ION DAT	FD 11/97)				

TAIPEI, REPUBLIC OF CHINA

BMF	N FREQUENCIES TIMES 4616 kHz 5250 kHz 8140 kHz 13900 kHz 18560 kHz	EMISSION F3C F3C F3C F3C F3C	10	WER KW KW KW KW KW
71ME 0040/ 0110/1310 0130/1330 0250/1450 0330/1530 0350/ 0410/1610 0430/1630 0440/1640 0450/1650 0500/1700 0510/1710	CONTENTS OF TRANSMISSION BROADCAST SCHEDULE TYPHOON WARNINGS (ENGLISH & CHINESE) GMS SATELLITE IMAGE FISHERY WEATHER FORECAST (IN CHINESE) SURFACE ANALYSIS WITH PLOTTED DATA 24HR SURFACE PROG TYPHOON WARNING (ENGLISH & CHINESE) 850HPA ANALYSIS WITH PLOTTED DATA 700HPA ANALYSIS WITH PLOTTED DATA 500HPA ANALYSIS WITH PLOTTED DATA 300HPA ANALYSIS WITH PLOTTED DATA RFS SURFACE PRESSURE ANALY/RFS 500HPA HEIGHT ANALYSIS	120/576 120/576 120/576 120/576 120/576 120/576 120/576 120/576 120/576 120/576 120/576	VALID TIME 00/12 00/12 00/12 00/12 00/00 03/15 00/12 00/12 00/12 00/12 00/12	MAP AREA
0520/1720 0530/1730 0540/1740 0550/1750 0600/1800 0620/1820 0630/1830 0640/1840 0650/1850 0710/1910 0730/1930 0745/1945 0755/1955	RFS SURFACE PRESSURE ANALY/RFS 500HPA HEIGHT ANALYS RFS 12HR SURFACE PROG/RFS 12HR 500HPA PROG RFS 24HR SURFACE PROG/RFS 24HR 500HPA PROG RFS 24HR SURFACE PROG/RFS 24HR 500HPA PROG RFS 36HR SURFACE PROG/RFS 24HR 500HPA PROG RFS 48HR SURFACE PROG/RFS 48HR 500HPA PROG RFS 72HR SURFACE PROG/RFS 72HR 500HPA PROG GFS 850HPA EQUATORIAL BELT WIND ANALYSIS GFS 200HPA EQUATORIAL BELT WIND PROG GFS 24HR 850HPA EQUATORIAL BELT WIND PROG TYPHOON WARNINGS (ENGLISH & CHINESE) GMS SATELLITE IMAGE GFS 48HR 850HPA EQUATORIAL BELT WIND PROG GFS 48HR 200HPA EQUATORIAL BELT WIND PROG GFS 48HR 200HPA EQUATORIAL BELT WIND PROG GFS 72HR 850HPA EQUATORIAL BELT WIND PROG GFS 72HR SURFACE PROG GFS 72HR SURFACE PROG GFS 72HR SURFACE PROG FISHERY WEATHER FORECAST (IN CHINESE) SURFACE ANALYSIS WITH PLOTTED DATA TYPHOON WARNINGS (ENGLISH & CHINESE) GFS 120HR SURFACE PROG GFS 120HR SURFACE PROG GFS 120HR SURFACE PROG GFS 120HR SURFACE PROG TYPHOON WARNINGS (ENGLISH & CHINESE)	120/576 120/576 120/576 120/576 120/576 120/576 120/576 120/576 120/576 120/576 120/576 120/576	00/12 00/12 12/00 00/12 00/12 00/12 00/12 00/12 06/18 06/18 06/18 00/12 00/12	
0820/2005/2015/2025/2035 0850/2050 0930/2130 1010//2150/2210	GFS 72HR 850HPA EQUATORIAL BELT WIND PROG GFS 72HR 200HPA EQUATORIAL BELT WIND PROG GFS 96HR SURFACE PROG GFS 72HR SURFACE PROG FISHERY WEATHER FORECAST (IN CHINESE) SURFACE ANALYSIS WITH PLOTTED DATA TYPHOON WARNINGS (ENGLISH & CHINESE) GFS 120HR SURFACE PROG GFS 120HR 500HPA PROG TYPHOON WARNINGS (ENGLISH & CHINESE)	120/576 120/576 120/576 120/576 120/576 120/576 120/576 120/576 120/576 120/576	0000 1200 1200 1200 1200 06/18 06/18 0900 1200 1200 2100	

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

(SCHEDULE EFFECTIVE APR 01, 2002) (INFORMATION DATED 10/2002) http://marine.cwb.gov.tw/qa/BMF%20BROADCAST%20SCHEDULE.htm

SEOUL, REPUBLIC OF KOREA

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

SEOUL, REPUBLIC OF KOREA

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

NOTES:

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

(INFORMATION DATED 02/1999)

BANGKOK, THAILAND

CALL SIGI HSW64 HSW61	NS FREQUENCIES TIMES 7396.8 kHz 17520 kHz	EMISSION F3C F3C	1 PC 3 10	
TIME CON	TENTS OF TRANSMISSION	RPM/IOC	VALID TIME	MAP AREA
0100/0700 0120/ 0140/ 0300/0720 0320/0740 0340/0800 /0820	FORECAST FOR SHIPPING (IN ENGLISH) SURFACE PROG SURFACE ANALYSIS 24 HR SURFACE PROG 48 HR SURFACE PROG 72 HR SURFACE PROG 24 HR 850 MB WIND/TEMP PROG	120/576 120/576 120/576 120/576 120/576 120/576 120/576	00/06 1200 1800 12/12 12/12 12/12 12/00	A A A A A A

BANGKOK, THAILAND

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

MAP AREA: A - 1:20,000,000 50N 045E, 50N 160E, 30S 045E, 30S 160E

(INFORMATION DATED 11/97)

TASHKENT 1, UZBEKISTAN

CALL SIG RBV70 RPJ78 RBV78 RBX72 RCH72 RBV76	NS FREQUENCIES 3690 kHz 4365 kHz 5890 kHz 7570 kHz 9340 kHz 14982.5 kHz	TIMES 1300-0130 ALL BROADCAST TIMES ALL BROADCAST TIMES 0130-1300 ALL BROADCAST TIMES ALL BROADCAST TIMES	EMISSIOI F3C F3C F3C F3C F3C F3C	N PC	OWER
TIME	CONTENTS OF TRANSMISSIO	DN	RPM/IOC	VALID TIME	MAP AREA
/1215 0110/ 0130/1325 0155/1355 0255/1455 0345/1540/1615 0420/ 0450//1745 0625/1850 0633/ 0650/ 0755/1930/2020 0845/ 0755/1930/2105 0930/2122/2105 0930/2122/2345 NOTE: DES	NEPHANALYSIS RADAR DATA 18HR SIGNIFICANT WEATHER SURFACE ANALYSIS SURFACE ANALYSIS 700MB ANALYSIS 400MB ANALYSIS 400MB ANALYSIS 300MB ANALYSIS SURFACE ANALYSIS 300MB ANALYSIS 500MB ANALYSIS 500/1000MB ANALYSIS 36HR 500MB PROG 36HR 850MB/700MB/500MB VERADAR DATA PRECIPITATION AND MAX TE 400MB ANALYSIS SURFACE ANALYSIS	ERTICAL MOTION PROGS MPS ERTICAL MOTION PROGS ERTICAL MOTION PROGS	90/576 90/576 60/576 60/576 90/576 90/576 90/576 120/576 90/576 90/576 120/288 90/576 90/576 90/576 90/576 90/576 90/576 90/576 90/576 90/576 90/576 90/576 90/576 90/576	0000 06/18 00/12 00/12 1200 1200 1500 0000 1200 12/00 12/00 1500 0600 0600 06/18 1800 0600 0000 00/12 2100 0000 09/21 1200	*EDBAAAAABAACCEKABAACAEABC

(INFORMATION DATED 09/1990, update 2005 - service probably ceased in 2003)

TASHKENT 2, UZBEKISTAN

CALL SIGN RBX70 RBX71 RIJ75 RCH73 ROM5		REQUE 3280 5285 8083 9150 3947	NCIES kHz kHz kHz kHz kHz	ALL E 1400-	ROAD ROAD 0200 ROAD	CAST	TIMES TIMES TIMES	F3C F3C	ON	PO	WER
TIME	CONTEN	TS OF TR	ANSMISSIO	N				RPM/IOC	VAL TIM		MAP AREA
0030/ 0050/1250 0130//1330 0258/ 0315/1515 0350/1550 0410/1605/1640 0500/ 0550/1720/1755 0625/ 0640/ 0750/1930/2 015 0830/ 0915/2105/2122/2139 0950//2155/2212 1140/2320	PREBARI 48HR 500 300MB AI RADAR D 500MB AI 850MB AI 200MB AI 100MB AI PRECIPI 400MB AI RADAR D 100MB AI TSHR 300 MAX WIN 500MB AI MAX WIN 700MB AI 500MB AI 300MB AI 300MB AI	DATA GNIFICAN IC CHART DMB PROD NALYSIS NALYSIS NALYSIS E ANALYSIS NALYSIS	T WEATHER G SIS EMPERATUI	RE EXTF	PROG			90/576 90/576 60/576 90/576 90/576 90/576 90/576 90/576 90/576 90/576 90/576 90/576 90/576 90/576 90/576 90/576 90/576 90/576 90/576 90/576 90/576 90/576	00/1 06/1 180 000/1 03/1 00/1 120/ 000/1 120/ 000/1 120/ 000/1 120/ 060/ 060/ 090/ 180/ 180/ 180/ 180/ 180/ 180/	8002520020000300800000	EHHCAEAABAAAAEAHDAA/D** ********************************
MAP AREAS:	A* - 1:15, B - 1:05, C - 1:15,	,000,000 ,000,000 ,000,000 ,000,000 ,000,000 ,000,000	45N 037W, 57N 005W, 45N 030E, 53N 006W, 56N 021W, 70N 008W, 56N 021E, 47N 038E,	27N 49N 48N 58N 47N 58N	125E, 123E, 081E, 095E, 108E, 118E, 108E, 079E,	16N 14N 26N 25N 30N 34N 30N 30N	026E, 016E, 029E, 016E,	15N 078E 02N 088E 28N 077E 22N 072E 31N 072E 24N 082E 31N 072E 31N 174E			
(INFORMATION)	ON DATED	07/1997	undate 2005	– servic	e probat	oly cease	ed in 200	03)			

(INFORMATION DATED 07/1997, update 2005 – service probably ceased in 2003)

KYODO NEWS AGENCY, JAPAN/SINGAPORE

CALL SIGNS	FREQUENCIE	S TIMES	EMISSION	POWER
JJC	4316 kHz	ALL BROADCAST TIMES	F3C	5 KW
JJC	8467.5 kHz	ALL BROADCAST TIMES	F3C	10 KW
JJC	12745.5 kHz	ALL BROADCAST TIMES	F3C	15 KW
JJC	16971 kHz	ALL BROADCAST TIMES	F3C	15 KW
JJC	17069.6 kHz	ALL BROADCAST TIMES	F3C	15 KW
JJC	22542 kHz	ALL BROADCAST TIMES	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 0200 0200 0245 0430	Sports Ed 2(R), (Seasonal during Sumo or High School baseball series MON: NX for 1 week TUE-SUN: NX (R),Epidemic Information(R)(SUN only), Ocean Information(N)(4th,14th, and 24th,3rd,13th,23rd if a MON) Morning Ed(R), Sports Ed 1(R), NX(R) WX Chart	120/576 120/576 60/576 60/576	0000	
0430 0430 0540 0540 0540 0610 0635	Ocean Information(n)(4th,14th, and 24th) TUE&FRI: Satellite Fishery Information SAT&SUN: Ocean Graphic Information SUN&MON: Sea Surface Current Prog	120/576 120/576 60/576 60/576 60/576 120/576 60/576	0000	
0650 0650 0705 0745	SUN:WX Chart, Fishing Information (3 times per month) MON-SAT: WX Chart Background Stories(N), Life(N)(except MON) SUN:	60/576 60/576 60/576	0300 0300	
0745	Sunday Ed(N), FAX DAYORI 1,2,3 (N) Sumo match (begins 0930 SAT as well) MON-SAT:	60/576 60/576		
0745	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) NATIONAL HOLIDAYS:	60/576 60/576 60/576		
	Morning Ed(R), Sports Ed 1 (R), FAX DAYORI 1(N), Sumo match (Seasonal)(N)FAX DAYORI 2(N)	60/576 60/576		
1100 1130 1335 1415 1445 1500	NX (N), Sumò match (Seasonal)(R) MON-FRI: English Ed (N) Background Stories(R), Life(R)(except MON) MON-FRI: Kaiun-Suisan News(R) Sports Ed 2(N), (Seasonal during Sumo or High School baseball series Morning Ed(N), Sports Ed 1(N), NX(R)	60/576 60/576 60/576 60/576 60/576		
1645 1645	MON: Sunday Ed(R) TUE-SUN: Evening Ed(R)	60/576 60/576		
1810 1930 1930	TUE-SAT: English Ed (R) MON: Evening Ed(R), NX(R), FAX DAYORI 2,1,3 (R) TUE-SUN: Evening Ed(R), NX(R), FAX DAYORI 2,1,4 (no 4 on THU,SAT and TUE following 2nd & 4th MON	60/576 60/576 60/576		
2030 2215	Also no 2 on WED and SUN)(R) DAY AFTER NATIONAL HOLIDAYS: NX(R), FAX DAYORI 2,1,4 (R) MON and DAY AFTER NATIONAL HOLIDAYS:	60/576		
2215	Morning Ed(R), Sports Ed 1,2(R), NX(R), FAX DAYORI 1-3(R)(3 Mon onl WX Chart TUE-SUN:	60/576 60/576	2100	
	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			

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

Some of these transmissions may be encrypted

NORTHWOOD, UNITED KINGDOM (PERSIAN GULF)

CALL SIGNS	FREQUENCIES	TIMES	EMISSION	POWER
GYA	3289.5 kHz	ALTERNATE	F3C	10 KW
GYA	6834 kHz	ALL BROADCAST TIMES	F3C	10 KW
GYA	14436 kHz	ALTERNATE	F3C	10 KW
GYA	18261 kHz	ALL BROADCAST TIMES	F3C	10 KW

0106/1306
0042/2042 SUNFACE SIGNIFINT WINDS 1172 120/370 00/12
0806/2006 SURFACE PROG T+120 120/576 00/12 0818/2018 THICKNESS/GEOPONTENTIAL HEIGHT ANALYSIS 120/576 00/12 0830/2030 SURFACE SIGNIFINT WINDS T+48 120/576 00/12 0842/2042 SURFACE SIGNIFINT WINDS T+72 120/576 00/12 0854/2054 SURFACE SIGNIFINT WINDS T+96 120/576 00/12 0918/2118 THICKNESS/GEOPONTENTIAL HEIGHT ANALYSIS 120/576 00/12 0930/2130 THICKNESS/GEOPONTENTIAL HEIGHT T+24 120/576 00/12 0942/2142 850 hPA WINDS T+24 120/576 00/12 0954/2154 700 hPA WINDS T+24 120/576 00/12 1006/2206 SEA SURFACE TEMP 120/576 000 1042/2242 700 hPA WBPT/PPTN T+24 120/576 06/18 1054/2254 AIR TEMP/DEW POINT +24 120/576 06/18 1130/2330 SEA AND SWELL PROGNOSIS T+24 120/576 06/18
0818/2018 THICKNESS/GEOPONTENTIAL HEIGHT ANALYSIS 120/576 00/12 0830/2030 SURFACE SIGNIFINT WINDS T+48 120/576 00/12 0842/2042 SURFACE SIGNIFINT WINDS T+72 120/576 00/12

ALL MAPS 40°30′N.15°30′E 40°30′N.80°E 03°N.15°30′E 3°N.80°E WBPT WET BULB POTENTIAL TEMPERATURE PPTN PRECIPITATION

INFORMATION DATED 03 JUNE 2005

SOUTH AMERICA

RIO DE JANEIRO, BRAZIL

CALL SIGNS	FREQUENCIES	TIMES	EMISSION	POWER
PWZ-33	12665 kHz	ALL BROADCAST TIMES	F3C	1 KW
PWZ-33	16978 kHz	ALL BROADCAST TIMES	F3C	1 KW

TIME	CONTENTS OF TRANSMISSION	RPM/IOC	VALID TIME	MAP AREA
0745/1630 0750/1635 0810/1655 0830/1715 0850/1735	TEST CHART SURFACE ANALYSIS (Hpa) WAVES SIG HEIGHT (m) AND DIR PROG 12/00Z+36HR WIND AT 10 m (KTS) PROG 12/00Z +36 HR SEA SURFACE TEMPERATURE	120/576 120/576 120/576 120/576 120/576	00/12 00/12 00/12 12/00	A B C D

MAP AREA: A: 1:53,000,000 20N 090W, 20N 020E, 70S 090W, 70S 020E B: 1:58,000,000 20N 090W, 20N 020E, 70S 090W, 70S 020E C: 1:58,500,000 20N 090W, 20N 020E, 70S 090W, 70S 020E D: 1:32,700,000 15N 072W, 15N 018W, 50S 072W, 50S 018E

(INFORMATION DATED 18 Apr 2004)

http://www.mar.mil.br/dhn/chm/meteo/info/transmissoes/apend3ing.htm

VALPARAISO PLAYA ANCHA, CHILE

CALL SIGNS	FREQUENCIES	TIMES	EMISSION	POWER
CBV	4228.0 kHz	ALL BROADCAST TIMES	F3C	1 KW
CBV	8677.0 kHz	ALL BROADCAST TIMES	F3C	1 KW
CBV	17146.4 kHz	ALL BROADCAST TIMES	F3C	1 KW

TIME	CONTENTS OF TRANSMISSION	RPM/IOC	VALID TIME	MAP AREA
1115	SURFACE ANALYSIS	120/576	0600	Α
1130	SATELLITE IMAGE	120/576	0900	Α
1630	SURFACE ANALYSIS	120/576	1200	A A
1645	SATELLITE IMAGE	120/576	1500	Α
1915	SIGNIFICANT WAVE MAP (MTS)	120/576	1200	Α
1930	SATELLITE IMAGE	120/576	1800	A A A
2200	SURFACE ANALYSIS	120/576	1800	A
2215	ICE REPORT	120/576		Á
2230	12HR WINDS BARB ISOTACHS FORECAST	120/576	1200	Á
2310	12HR SURFACE FORECAST	120/576		A A
2325	SATELLITE IMAGE	120/576	2100	Ä

MAP AREA: A: 10S-120W, 10S-050W, 80S-130W, 80S-030W

(INFORMATION DATED Sep 10, 2003) http://www.directemar.cl/meteo/operador/horarios.htm

NORTH AMERICA

HALIFAX, NOVA SCOTIA, CANADA

CALL SIGN	FREQUENCIES	TIMES	EMISSION	POWER
CFH	122.5 kHz	ALL BROADCAST TIMES	F3C	10 KW
	4271 kHz	ALL BROADCAST TIMES	F3C	6 KW
	6496.4 kHz	ALL BROADCAST TIMES	F3C	6 KW
	10536 kHz	ALL BROADCAST TIMES	F3C	6 KW
	13510 kHz	ALL BROADCAST TIMES	F3C	6 KW

TIME	CONTENTS OF TRANSMISSION	RPM/IOC TIME	VALID I AREA	MAP
0001/ 1201 0101/ 1222/1301 0201/1401 0301/1501 0322/1522/1601 0401/1622 0422/1701 0501/ 0601/1801/1822 0701/1901 0801/2001 0901/2101 1001/ 1001/ 1001/ 1001/ 12201 1022//2201 1022//2301	Ice Chart #1 (see note): Latest) 3-DAY PROG SATELLITE PHOTO INFRARED 4-DAY PROG 5-DAY PROG 12/00Z SIGNIFICANT WEATHER DEPICTION 500MB ANALYSIS SURFACE ANALYSIS 850MB ANALYSIS 36HR 500MB FORECAST 24HR SURFACE PROG 850 MB FORECAST WINDS 36HR SURFACE PROG 850MB FORECAST WINDS 18/06Z SIIGNIFICANT WEATHER DEPICTION 24/36HR SIGNIFICANT WEATHER DEPICTION 24/36HR SIGNIFICANT WAVE PROGNOSIS SURFACE ANALYSIS SST: NOVA SCOTIA - MON NEWFOUNDLAND - TUE/FRI OFA: NOVA SCOTIA - WED/SAT NEWFOUNDLAND - SUN/THU SST: NOVA SCOTIA - TUE/THU/FRI NEWFOUNDLAND - WED/SAT OFA: NOVA SCOTIA - SUN NEWFOUNDLAND - MON SATELLITE PHOTO INFRARED NEWFOUNDLAND ICE CHART CFH BROADCAST SCHEDULE GULF OF ST LAWRENCE ICE CHART (SEASONAL)	120/576 120/576	LATEST 1200 0000 1200 1200 12/00 00/12 12/00 00/12 12/00 00/12 18&00 12/00 06&12 18/06 0&12/12&0 06/18 LATEST	G GGABFBHACACAAFEEEE

NOTES:

This schedule of chart and text transmission is subject to short notice change according to the requirements of the Canadian Forces.

The geographical area of coverage for the ice charts varies according to season. The typical areas are: Gulf of St. Lawrence, East Newfoundland waters, Labrador Coast, Hudson Strait, Davis Strait and Baffin Bay. The Canadian Ice Service prepares all ice charts.

MAP AREAS: A. 56N 87W, 56N 24W, 34N 38W, 34N 73W E. 50N 75W, 50N 48W, 34N 48W, 34N 75W

B. 76N 16W, 30N 20W, 23N 11W, 08N 69W C. 52N 80W, 65N 15W, 30N 60W, 34N 17W D. 60N 68W, 60N 33W, 43N 33W, 43N 68W H. 30N 107W, 15N 67W, 30N 39W, 28N 78W I. 54N 100W, 58N 22W, 30N 39W, 28N 78W

(INFORMATION DATED 2007) http://www.ccg-gcc.gc.ca/mcts-sctm/ramn/docs/aa.ae/Part-5ae-2007Final.pdf

IQALUIT, N.W.T., CANADA

CALL SIGN VFF VFF	N FREQUENCIES 3253.0 kHz 7710.0 kHz	TIMES 25 JUN – 30 NOV 25 JUN – 30 NOV	EMISSION J3C J3C		WER KW KW
TIME	CONTENTS OF TRANSMISSION		RPM/IOC	VALID TIME	MAP AREA
0500/	Ice Analysis Hudson Bay south, Hudson		120/576		/ ((L / (
1000/2100	Foxe Basin, Labrador Coast, Davis Strait Marine Surface Analysis (Arctic) Marine wind prognosis (Arctic) (experime Regional Marine Wind Prognosis (on req	•	120/576		
/2125	Ice Analysis Hudson Bay south, Hudson Foxe Basin, Labrador Coast, Davis Strai	Bay north, Hudson Strait,	120/576		

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

(INFORMATION DATED 2007) http://www.ccg-gcc.gc.ca/mcts-sctm/ramn/docs/aa.ae/Part-2ae-2007Final.pdf

RESOLUTE, N.W.T., CANADA

CALL SIGN VFR VFR	3253.0 kHz	TIMES 25 JUN – 30 NOV 25 JUN – 30 NOV	EMISSION J3C J3C		WER KW KW
TIME	CONTENTS OF TRANSMISSION		RPM/IOC	VALID TIME	MAP AREA
0010/	Ice analysis Baffin Bay, Approache Eureka Sound, McClure Strait, Pari		120/576		
0700/	Ice analysis Baffin Bay, Approache	•	120/576		
1100/2330	Eureka Sound, McClure Strait, Pari Marine Surface Analysis (Arctic) Marine wind prognosis (Arctic) (ex Regional Marine Wind Prognosis (120/576		

(INFORMATION DATED 2007) http://www.ccg-gcc.gc.ca/mcts-sctm/ramn/docs/aa.ae/Part-2ae-2007Final.pdf

SYDNEY - NOVA SCOTIA, CANADA

CALL SIGN VCO VCO	N FREQUENCIES 4416 kHz 6915.1 kHz	TIMES 1121-1741 2200-2331	EMISSION J3C J3C	PC	WER
TIME	CONTENTS OF TRANSMISSIO	N	RPM/IOC	VALID TIME	MAP AREA
1121 1142 1741 2200 2331	ICE ANALYSIS ICEBERG LIMIT ICE ANALYSIS GULF OF ST. L	THEAST NEWFOUNDLAND WATERS	120/576 120/576		

(INFORMATION DATED 2007) http://www.ccg-gcc.gc.ca/mcts-sctm/ramn/docs/aa.ae/Part-2ae-2007Final.pdf

KODIAK, ALASKA, U.S.A.

CALL SIGN	FREQUENCIES	TIMES	EMISSION	POWER
NOJ	2054 kHz	ALL BROADCAST TIMES	F3C	7.5 KW
	4298 kHz	ALL BROADCAST TIMES	F3C	7.5 KW
	8459 kHz	ALL BROADCAST TIMES	F3C	7.5 KW
	12412.5 kHz	ALL BROADCAST TIMES	F3C	7.5 KW

TIME	CONTENTS OF TRANSMISSION	RPM/IOC	VALID TIME	MAP AREA
0400/1600 0403/1603 0427/1627 0437/1637 0447/1647 0456/1656 0506/1706 0517/1717 0527/1727 0548/1748	TEST PATTERN SURFACE ANALYSIS REBROADCAST 24HR SURFACE F'CAST 2227/1027 REBROADCAST 48HR SURFACE F'CAST 2237/1037 COASTAL MARINE FORECAST TABLES (ALASKA) SEA STATE ANALYSIS/REBROADCAST GOES IR SATELLITE IMAGE 500 MB ANALYSIS SYMBOLS AND CONTRACTIONS/SCHEDULE REQUEST FOR COMMENTS/PRODUCT NOTICE	120/576 120/576 120/576 120/576 120/576 120/576 120/576 120/576 120/576	00/12 12/00 12/00 LATEST 00/00 00/12 00/12	2 3 1 1 5
0558/1758 0950/2150 0953/2153 1017/2217 1027/2227 1037/2237 1047/2247 1057/2257 1117/2317 1128/2328 1138/2338 1148/ 1159/ 1159/ /2348 /0008 /0018	24HR 500 MB FORECAST TEST PATTERN SURFACE ANALYSIS 24HR WIND/WAVE FORECAST 24HR SURFACE FORECAST 48HR SURFACE FORECAST 48HR WIND/WAVE FORECAST 5-DAY SEA ICE FORECAST/SEA ICE ANALYSIS GOES IR SATELLITE IMAGE 48HR WAVE PERIOD, SWELL DIRECTION 48HR 500 MB FORECAST SEA SURFACE TEMPERATURE ANALYSIS COOK INLET SEA ICE FORECAST 96HR SURFACE FORECAST 96HR WIND/WAVE FORECAST 96HR WAVE PERIOD, SWELL DIRECTION 96HR 500 MB FORECAST	120/576 120/576 120/576 120/576 120/576 120/576 120/576 120/576 120/576 120/576 120/576 120/576 120/576 120/576 120/576	00/12 06/18 00/12 00/12 00/12 00/12 LATEST 00/12 00/12 LATEST LATEST 1200 1200 1200 1200	1 233116511471111

MAP AREAS:

1. 20N - 70N, 115W - 135E 2. 40N - 70N, 125W - 150E 3. 40N - 70N, 115W - 170E 4. 40N - 60N, 125W - 160E 5. 05N - 60N, 110W - 160W 6. ICE COVERED AK WATERS

7. COOK INLET

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

METEOROLOGIST-IN-CHARGE

NATIONAL WEATHER SERVICE/NOAA 6930 SAND LAKE ROAD ANCHORAGE, AK 99502-1845

PH: (907) 266-5105/FAX: (907) 266-5188 E-MAIL: nws.ar.pafc.webauthors@noaa.gov

Many of these charts also broadcast from Pt. Reyes, CA

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

(SCHEDULE EFFECTIVE JUN 15, 2005)

(INFORMATION DATED FEB 21, 2007) http://weather.noaa.gov/pub/fax/hfak.txt

PT. REYES, CALIFORNIA, U.S.A. (Subject to change on or about Aug 01, 2007)

CALL SIGN	FREQUENCIES	TIMES	EMISSION	POWER
NMC	4346 kHz	NIGHT	F3C	4 KW
	8682 kHz	ALL BROADCAST TIMES	F3C	4 KW
	12786 kHz	ALL BROADCAST TIMES	F3C	4 KW
	17151.2 kHz	ALL BROADCAST TIMES	F3C	4 KW
	22527 kHz	DAY	F3C	4 KW

TIME	CONTENTS OF TRANSMISSION	RPM/IOC	VALID TIME	MAP AREA
0140/1400 0143/1403 0154/1414 0205/1425 0215/1435 0225/ 0235/ 0245/1445 0255/1455 0305/1505 0318/1518 0331/1531 0344/1544 0357/1557 0408/1608 0655/1840	TEST PATTERN NE PACIFIC GOES IR SATELLITE IMAGE PACIFIC GOES IR SATELLITE IMAGE TROPICAL SEA STATE ANALYSIS TROPICAL 24HR WIND/WAVE FORECAST TROPICAL 48HR WIND/WAVE FORECAST TROPICAL 72HR WIND/WAVE FORECAST 500MB ANALYSIS SEA STATE ANALYSIS, WIND/WAVE ANALYSIS PRELIM SURFACE ANALYSIS (PART 1 NE PAC) PRELIM SURFACE ANALYSIS (PART 2 NW PAC) FINAL SURFACE ANALYSIS(PART 1 NE PAC) FINAL SURFACE ANALYSIS(PART 2 NW PAC) CYCLONE DANGER AREA* or HIGH WIND/WAVES TROPICAL SURFACE ANALYSIS	120/576 120/576 120/576 120/576 120/576 120/576 120/576 120/576 120/576 120/576 120/576 120/576 120/576 120/576	00/12 00/12 00/12 00/12 00/12 0000 00/12 00/12 00/12 00/12 00/12 00/12 00/12 00/12	6 5 4 4 4 1 1/8 2 3 2 3 10 4
0655/1640 0657/ 0707/ 0717/ 0727/ 1842 /1852 0737/1902 0748/1913 0758/1923 0808/1933 0818/1943 0828/1953 0838/2003 0848/2013 0858/2023 /2033 /2043 /2053 /2053 /2103 0908/2113 0919/2124 0932/2137 0945/2150 0959/2204 1009/2214 1120/2320	CYCLONE DANGER AREA* or HIGH WIND/WAVES TROPICAL SURFACE ANALYSIS TEST PATTERN 2033Z REBROADCAST (96HR 500MB) 2043Z REBROADCAST (96HR SURFACE) 2053Z REBROADCAST (96HR WIND/WAVE) 2103Z REBROADCAST (96HR WAVE PERIOD) SST ANALYSIS SST ANALYSIS ST ANALYSIS TROPICAL GOES IR SATELLITE IMAGE WIND/WAVE ANALYSIS 24HR 500MB FORECAST 24HR SURFACE FORECAST 48HR SURFACE FORECAST 48HR WIND/WAVE FORECAST 48HR WIND/WAVE FORECAST 48HR WIND/WAVE FORECAST 48HR WAVE PERIOD/SWELL DIRECTION 96HR 500MB FORECAST 96HR SURFACE FORECAST 96HR WAVE PERIOD/SWELL DIRECTION PACIFIC GOES IR SATELLITE IMAGE SURFACE ANALYSIS (PART 1 NE PACIFIC) TROPICAL SURFACE ANALYSIS TROPICAL 24HR WIND/WAVE FORECAST CYCLONE DANGER AREA* or HIGH WIND/WAVES TEST PATTERN BROADCAST SCHEDULE (PART 1)	120/576 120/576	1200 1200 1200 1200 LATEST LATEST 06/18 06/18 06/12 00/12 00/12 00/12 00/12 1200 1200 12	1111967818811111115234410
1135/2335 1146/ 1157/	TEST PATTERN BROADCAST SCHEDULE (PART 1) BROADCAST SCHEDULE (PART 2) REQUEST FOR COMMENTS PRODUCT NOTICE BULLETIN TROPICAL 48HR WIND/WAVE FORECAST TROPICAL 72HR WIND/WAVE FORECAST TROPICAL 48HR WAVE PERIOD/SWELL DIR TROPICAL 72HR WAVE PERIOD/SWELL DIR	120/576 120/576 120/576 120/576 120/576 120/576 120/576 120/576	1200 1200 12/00 0000	4 4 4 4

^{*} Tropical Cyclone Danger Area chart replaced by High Wind/Wave Warning chart Dec 01 - May 14

PT. REYES, CALIFORNIA, U.S.A. (Subject to change on or about Aug 01, 2007)

MAP AREAS: 1. 20N - 70N, 115W - 135E

 1. 20N - 70N, 115W - 135E
 2. 20N - 70N, 115W - 175W

 3. 20N - 70N, 175W - 135E
 4. 20S - 30N, EAST OF 145W

 5. 05N - 55N, EAST OF 180W
 6. 23N - 60N, EAST OF 150W

 7. 05N - 32N, EAST OF 130W
 8. 18N - 62N, EAST OF 157W

 9. 40N - 53N, EAST OF 136W
 10. 0N - 40N, 80W - 180W

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) 763-8294x7401/FAX: (301) 763-8085

EMAIL: David.Feit@noaa.gov

Many of these charts also broadcast from Kodiak, AK and Honolulu, HI

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

(SCHEDULE EFFECTIVE MAY 16, 2006)

(INFORMATION DATED JUN 20, 2006) http://weather.noaa.gov/pub/fax/hfreyes.txt

NEW ORLEANS, LOUISIANA, U.S.A. (Subject to change on or about Aug 01, 2007)

CALL SIGN	FREQUENCIES	TIMES	EMISSION	POWER
NMG	4317.9 kHz	ALL BROADCAST TIMES	F3C	5 KW
	8503.9 kHz	ALL BROADCAST TIMES	F3C	5 KW
	12789.9 kHz	ALL BROADCAST TIMES	F3C	5 KW
	17146 4 kHz	1200-2045	F3C	5 KW

TIME	CONTENTS OF TRANSMISSION	RPM/IOC	VALID TIME	MAP AREA
0000/1200 0005/1205 0020/1220 0035/1235 0045/1245 0055/1255 0105/1305 0115/1315 0125/1325 0135/1335 0150/ /1350 0200/1400 0215/1415 /1425 0225/1445 0600/1800 0605/1805 0620/1820 0635/1835 0645/1845 0655/1855 0705/1905 0715/1915 0725/1925	TEST PATTERN U.S./TROPICAL SURFACE ANALYSIS (W HALF) TROPICAL SURFACE ANALYSIS (E HALF) 24 HR WIND/WAVE FORECAST 48 HR WIND/WAVE FORECAST 72 HR WIND/WAVE FORECAST 74 HR SURFACE FORECAST 74 HR SURFACE FORECAST 75 HR SURFACE FORECAST 76 HR SURFACE FORECAST 77 HR SURFACE FORECAST 77 HR SURFACE FORECAST 78 HR SURFACE FORECAST 79 HR SURFACE FORECAST 70 HR SURFACE FORECAST 70 HR SURFACE FORECAST 71 HR SURFACE FORECAST 72 HR WAVE PERIOD/SWELL DIRECTION (REBROADCAST OF 0150) GOES IR TROPICAL SATELLITE IMAGE 100 HR SEA STATE ANALYSIS PRODUCT NOTICE BULLETIN HIGH SEAS FORECAST (IN ENGLISH) TEST PATTERN U.S./TROPICAL SURFACE ANALYSIS (W HALF) TROPICAL SURFACE ANALYSIS (E HALF) 24 HR WIND/WAVE FORECAST (REBROADCAST OF 0045/1245) (REBROADCAST OF 0045/1245) (REBROADCAST OF 0115/1315) (REBROADCAST OF 0115/1315) (REBROADCAST OF 0125/1325) CYCLONE DANGER AREA* OF HIGH WIND/WAVES 48 HR WAVE PERIOD/SWELL DIRECTION GOES IR TROPICAL SATELLITE IMAGE (REBROADCAST OF 0215/1415)	120/576 120/576 120/576 120/576 120/576 120/576 120/576 120/576 120/576 120/576 120/576 120/576	18/06 18/06 00/12 00/12 00/12 00/12 00/12 00/12 21/09 0000 0000 00/12 00/12 22/10 00/12 00/12 00/12 00/12 00/12 00/12 00/12 00/12	MAPAREA 12333333363343 5 1233333336343
0735/1935 0750/1950 0800/2000 0815/2015	CYCLONE DANGER AREA* or HIGH WIND/WAVES 48 HR WAVE PERIOD/SWELL DIRECTION GOES IR TROPICAL SATELLITE IMAGE (REBROADCAST OF 0215/1415)	120/576 120/576 120/576 120/576	03/15 00/12 07/18 00/12	6 3 4 3
0825/2025 0845/2045	REQUEST FOR COMMENTS/BROADCAST SCHEDULE HIGH SEAS FORECAST (IN ENGLISH)	120/576 120/576	04/16	5

^{*} Tropical Cyclone Danger Area chart replaced by High Wind/Wave Warning chart Dec 01-May 14. Valid times 00z, 06z, 12z and 18z. Map area 05N-40N, 35W-100W

MAP AREAS: 1. 5S - 50N, 55W - 125W

1. 33 - 30N, 33W - 123W 2. 5S - 50N, 0W - 70W 3. 0N - 31N, 35W - 100W 4. 12S - 44N, 28W - 112W 5. 7N - 31N, 35W - 98W (AREA COVERED BY TEXT FORECAST) 6. 05N - 60N, 0W - 100W

NOTES: 1. CARRIER FREQUENCY IS 1.9 kHz BELOW THE ASSIGNED FREQUENCY 2. 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 TAFB 11691 SOUTHWEST 17TH STREET MIAMI, FL 33165-2149 PHONE: (305) 229-4430/FAX: (305) 553-1264

EMAIL: tpc.mar@noaa.gov

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

(Schedule Effective Dec 05, 2003)

(Information dated Mar 19, 2007) http://weather.noaa.gov/fax/gulf.shtml

BOSTON, MASSACHUSETTS, U.S.A. (Subject to change on or about Aug 01, 2007)

TIMES

EMISSION

POWER

CALL SIGN

FREQUENCIES

NMF	4235 kHz 6340.5 kHz 9110 kHz	0230z-1028z ALL BROADCAST TIMES ALL BROADCAST TIMES 1400z-2228z	F3C F3C F3C F3C F3C	5 5 5 5 5	KW KW KW KW
TIME	CONTENTS OF TRANSMISSION		RPM/IOC	VALID TIME	MAP AREA
0230/1400 /1405 /1420 /1433	TEST PATTERN BROADCAST SCHEDULE (PART BROADCAST SCHEDULE (PART REQUEST FOR COMMENTS PRODUCT NOTICE BULLETIN	1) 2)	120/576 120/576 120/576 120/576 120/576		
0233/1453 0243/ 0254/ 0305/	PRELIMINARY SURFACE ANALY BROADCAST SCHEDULE (PART BROADCAST SCHEDULE (PART REQUEST FOR COMMENTS	(SIS - 1) - 2)	120/576 120/576 120/576 120/576	00/12	1
/1503 0315/1515 0325/1525 0338/1538 0351/ /1600 /1720	SATELLITE IMAGE WIND/WAVE ANALYSIS SURFACE ANALYSIS (PART 1 NI SURFACE ANALYSIS (PART 2 NI SATELLITE IMAGE ICE CHARTS TEST PATTERN	1400z-2228z (SIS (1) (2) E ATLANTIC) W ATLANTIC)	120/576 120/576 120/576 120/576 120/576 120/576 120/576	1200 00/12 00/12 00/12 0000 LATEST	5 8 2 3 5
0402/1723 0415/1736 0428/1749 /1759 0438/1810 0452/1824 0745/1900	(REBROADCAST OF 0325/1525) (REBROADCAST OF 0338/1538) 500MB ANALYSIS SEA STATE ANALYSIS ICE CHARTS CYCLONE DANGER AREA* or HI TEST PATTERN	IGH WIND/WAVES	120/576 120/576 120/576 120/576 120/576 120/576 120/576	00/12 00/12 00/12 1200 LATEST 03/15	2 3 4 4 7
0755/ 0805/1905 0815/1915 0825/1925 0835/1935 0845/1945 0855/1955	PRELIMINARY SURFACE ANALY 24HR SURFACE FORECAST 24HR WIND/WAVE FORECAST 24HR 500MB FORECAST 36HR 500MB FORECAST 48HR 500MB FORECAST 48HR SURFACE FORECAST 48HR WIND/WAVE FORECAST	/SIS	120/576 120/576 120/576 120/576 120/576 120/576 120/576 120/576	0600 00/12 00/12 00/12 12/00 00/12 00/12 00/12	1 8 8 4 4 4 4
0915/2015/2025/2045/2055/2105/2115 0925/2125 0938/2138 0951/2151 1002/2202 1015/2215	48HR WAVE PERIOD FORECAST PRELIMINARY SURFACE ANALY 96 HR 500MB FORECAST 96 HR SURFACE FORECAST 96 HR WIND/WAVE FORECAST 96 HR WAVE PERIOD FORECAS (REBROADCAST OF 2045) SURFACE ANALYSIS (PART 1 NI SURFACE ANALYSIS (PART 2 NI SATELLITE IMAGE (REBROADCAST OF 0925/2125) (REBROADCAST OF 0938/2138)	/SIS ST	120/576 120/576 120/576 120/576 120/576 120/576 120/576 120/576 120/576 120/576	00/12 1800 1200 1200 1200 1200 1200 06/18 06/18 06/18 06/18	1884444444444236237
1013/2213	CYCLONE DANGER AREA* or HI	IGH WIND/WAVES	120/576	09/21	7

^{*} Tropical Cyclone Danger Area chart replaced by High Wind/Wave Warning chart Dec 01-May 14. Valid times 00z, 06z, 12z and 18z. Map area 05N-40N, 35W-100W

BOSTON, MASSACHUSETTS, U.S.A. (Subject to change on or about Aug 01, 2007)

MAP AREAS 1. 28N-52N, 45W-85W 2. 18N-65N, 10E-45W 3. 18N-65N, 40W-95W 4. 18N-65N, 10E-95W 5. 20N-55N, 55W-95W 6. EQ-60N, 40W-130W

7. 05N-60N, 0W-100W 8. 22N-51N, 40W-98W

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) 763-8294x7401/FAX: (301) 763-8085

EMAIL: David.Feit@noaa.gov

Tropical cyclone charts also broadcast from New Orleans, LA

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

(EFFECTIVE DATE: MAY 16, 2006) (INFORMATION DATED MAY 22, 2007) http://weather.noaa.gov/pub/fax/hfmarsh.txt

INUVIK, CANADA

CALL SIGN VFA	N FREQUENCIES TIMES 8457.8 kHz	EMISSION J3C	I POWER 1 KW	
TIME	CONTENTS OF TRANSMISSION	RPM/IOC	VALID MAP TIME AREA	١.
0200	Marine Wind Prognosis (Availability of charts may vary depending on shipping Ice Analysis (mid July to October 15) Amundsen Gulf, Queen Maud and McClure Strait. Ice Analysis Beaufort Sea/Alaskan Coast	120/576	1200	
1630	Marine Surface Analysis (Availability of charts may vary depending on shipping Ice Analysis (mid July to October 15) Amundsen Gulf, Queen Maud and McClure Strait. Ice Analysis Beaufort Sea/Alaskan Coast	120/576	1200	

Note: Also available on request

(INFORMATION DATED 2007) http://www.ccg-gcc.gc.ca/mcts-sctm/ramn/docs/ca.pe/Part-2pe-2007Final.pdf

PACIFIC OCEAN BASIN

CHARLEVILLE, AUSTRALIA

CALL SIGNS	FREQUEN	CIES	TIMES	EMISSION	POWER
VMC	2628 I	кHz	0900-1900	F3C	1 KW
VMC	5100 H	кHz	All Broadcast Ti	mes F3C	1 KW
VMC	11030 I	κHz	All Broadcast Ti	mes F3C	1 KW
VMC	13920 l	κHz	All Broadcast Ti	mes F3C	1 KW
VMC	20469 H	κHz	1900-0900	F3C	1 KW

WILUNA, **AUSTRALIA**

CALL SIGN	FREQUENCIES	S TIMES	EMISSION	POWER
VMW	5755 kHz	1100-2100	F3C	1 KW
VMW	7535 kHz	All Broadcast Times	F3C	1 KW
VMW	10555 kHz	All Broadcast Times	F3C	1 KW
VMW	15615 kHz	All Broadcast Times	F3C	1 KW
VMW	18060 kHz	2100-1100	F3C	1 KW

VMW	18060 kHz 2100-1100	F3C	1 K	W
TIME	CONTENTS OF TRANSMISSION	RPM/IOC	VALID TIME	MAP AREA
/1200 0015/1215 0030/1230 0045/ 0100/	Australian MSLP Prog (H+36) VMC/VMW Schedule Page 1 of 2 VMC/VMW Schedule Page 2 of 2 VMC/VMW Information Notice IPS Recommended Frequencies for VMC (Charleville)) IPS RECOMMENDED FREQUENCIES FOR VMW	120/576 120/576 120/576 120/576 120/576 120/576	1200	AUST
/1245 /1300 /1315 /1330 /1400	Indian Ocean MSLP Prog (H+36) Australian Sigwx Prog Valid South Pacific Ocean Total Waves (H+48) Indian Ocean Total Waves (H+48) Pacific Ocean Sea Surface Temps (Weekly) Indian Ocean Sea Surface Temps (Weekly)	120/576 120/576 120/576 120/576 120/576 120/576	1200 0600 0000 0000 LATEST LATEST	IO RSW SWP IO SWP IO
0200/ 0215/ 0230/ /1415	Australian MSLP Prog (H+36) Australian Sigwx Prog Asian Current Warnings Summary Casey Eastern and Western High Seas (H+48)	120/576 120/576 120/576 120/576	0000 1800 LATEST 0000	AUST RSW H
0245/1430 /1445 0300/1500 0315/	Austrálian MSLP Anal (Manual) Asian Current Warnings Australian 500 hPa Anal Voice Broadcast Information for VMW (Wiluna)	120/576 120/576 120/576 120/576	00/12 LATEST 00/12	AUST H AUST
/1515 0330/1530 0400/1600 0430/ 0445 /1630 /1700	Australian MSLP Prog (H+36) Asian Sigwx Prog Valid Australian 500 hPa (H+24) Prog Australian MSLP 4-day forecast, Days 1 and 2 Australian MSLP 4-day forecast, Days 3 and 4 IPS Recommended Frequencies for VMC (Charleville) IPS Recommended Frequencies for VMW (Wiluna)	120/576 120/576 120/576 120/576 120/576 120/576 120/576	1200 12/00 00/12	AUST D AUST
0600/1800 0623/1823 0645/ 0715/1900 0730/1915 0745/1930 0800/1945 0815/	Asian (Part A) Gradient Level Wind Anal (Manual) Asian (Part B) Gradient Level Wind Anal (Manual) Asian MSLP Anal (Manual) Australian Sigwx Prog Indian Ocean MSLP Anal (Manual) Australian Wind Waves Ht(m) Prog Australian Swell Waves Ht(m) Prog (H+24) Asian Current Warnings Summary South Pacific Ocean MSLP Anal	120/576 120/576 120/576 120/576 120/576 120/576 120/576 120/576 120/576	00/12 00/12 0000 00/12 00/12 00/12 00/12 LATEST 0000	A B C RSW IO AUST AUST H SWP
0845/ /2000 /2015 /2030 /2045	Australian MSLP Anal (Manual) South Pacific Ocean MSLP Anal (Manual) Casey Eastern and Western High Seas (H+24) Australian MSLP Anal (Manual) Asian Current Warnings Summary	120/576 120/576 120/576 120/576 120/576	0600 1200 1200 1800 LATEST	AUST SWP AUST H
0903/2100 0923/2120 0941/2140 1000/2200 1015/	Asian 200 hPa Streamline Anal Asian 500 hPa Streamline Anal Asian 700 hPa Streamline Anal Asian Sigwx Prog Casey Eastern and Western High Seas (H+24) Casey Eastern and Western High Seas (H+36)	120/576 120.576 120/576 120/576 120/576 120/576	00/12 00/12 00/12 18/06 0000 1200	CCCD
1030/2230 1045/2245 1100/ 1115/2300	S.H. 500 hPa Prog (H+48) Casey Eastern and Western High Seas (H+36) Casey Eastern and Western High Seas (H+36) S.H. 500 hPa Anal	120/576 120/576 120/576 120/576 120/576	00/12 00/12 00/12 0000 00/12	SH SH SH
1110/2000	V-1	120/070	30/12	511

CHARLEVILLE & WILUNA, AUSTRALIA

TIME	CONTENTS OF TRANSMISSION	RPM/IOC	VALID TIME	MAP AREA
/2315 1130/ /2330 /2345 1145/	Casey Eastern and Western High Seas (H+48) Asian Sea Surface Temp Anal (Weekly) Australian MSLP Prog (H+36) Indian Ocean MSLP Prog (H+48) VMC/VMW Information Notice	120/576 120/576 120/576 120/576 120/576	1200 LATEST 0000 1200	E AUST IO

The following charts are repeat broadcasts on 11030 kHz only via a directional aerial pointing from Charleville (VMC) towards Tasmania.

0345	Australian MSLP Anal (Manual) Valid 0000
0500	Australian MSLP 4-day Forecast, Days 1 and 2
0515	Australian MSLP 4-day Forecast, Days 3 and 4
0000	Indian Ocean MSLP Anal (Manual) Valid 1200

FOR FURTHER INFORMATION CONTACT:

SYSTEM HELP DESK

PH: (03) 9669 4054 EMAIL: webops@bom.gov.au

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MAP AREAS: A:

B:

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-

SEAUST-

SWAUST 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
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(Schedule Effective May 2005) (INFORMATION DATED May 22, 2007)

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

WELLINGTON, NEW ZEALAND

CALL SIGN	FREQUENCIES	TIMES	EMISSION	POWER
ZKLF	3247.4 kHz	0945-1700	F3C	5 KW
	5807 kHz	ALL BROADCAST TIMES	F3C	5 KW
	9459 kHz	ALL BROADCAST TIMES	F3C	5 KW
	13550.5 kHz	ALL BROADCAST TIMES	F3C	5 KW
	16340.1 kHz	2145-0500	F3C	5 KW

Single transmitter used. Times below reflect broadcast times at 5807 kHz Add 15 minutes for 9459 kHz, 30 minutes for 13550.5 kHz and 45 minutes for 3247.4 and 16340.1 kHz

TIME	CONTENTS OF TRANSMISSION	RPM/IOC	VALID TIME	MAP AREA
0000/120 0100/130 0200/140 0300/160 0400/160 0900/210 1000/220 1100/230	SOUTHWEST PACIFIC 48HR SURFACE PROG (MSL) SOUTHWEST PACIFIC 72HR SURFACE PROG (MSL) TASMAN-NEW ZEALAND MSL ANALYSIS SOUTHWEST PACIFIC MSL ANALYSIS TASMAN-NEW ZEALAND MSL ANALYSIS SOUTHWEST PACIFIC MSL ANALYSIS	120/576 120/576 120/576 120/576 120/576 120/576 120/576	00/12 00/12 00/12 00/12 00/12 06/18 06/18	SWP SWP SWP TNZ SWP TNZ SWP

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

(INFORMATION DATED MAY 2002) http://www.metservice.com/default/index.php?alias=radiofaxscheduletxt

HONOLULU, HAWAII, U.S.A. (Subject to change on or about Aug 01, 2007)

CALL SIGN	FREQUENCIES	TIMES	EMISSION	POWER
KVM70	9982.5 kHz	0519-1556	F3C	4 KW
	11090 kHz	ALL BROADCAST TIMES	F3C	4 KW
	16135 kHz	1719-0356	F3C	4 KW

TIME	CONTENTS OF TRANSMISSION	RPM/IOC	VALID TIME	MAP AREA
0519/1719 0524/1724 0535/1735 0555/1755 0615/1815 0635/1835 0649/1849 0701/1901 0714/1914 0727/1927 0740/1940 0753/1953 0806/2006 0816/2016 0826/2026 0836/2036 0846/2046 0856/2056 0906/2106 0917/2117 0930/2130 0943/2143 0954/2154 1008/2208 1042/2242 1102/2302 1115/2315 1128/2328 1141/2341 1154/2354 1214/0014 1234/0034 1248/0048 1300/0100 1320/0120 1340/0140 1400/0200 1410/0210	TEST PATTERN SIGNIFICANT CLOUD FEATURES CYCLONE DANGER AREA STREAMLINE ANALYSIS SURFACE ANALYSIS EAST PACIFIC GOES IR SATELLITE IMAGE SW PACIFIC GOES IR SATELLITE IMAGE 24HR SURFACE FORECAST 48HR SURFACE FORECAST 72HR SURFACE FORECAST WIND/WAVE ANALYSIS 24HR WIND/WAVE FORECAST 48HR SURFACE FORECAST 48HR SUNFACE FORECAST 48HR WIND/WAVE FORECAST 64BHR WIND/WAVE FORECAST 72HR WIND/WAVE FORECAST 72HR WIND/WAVE FORECAST 18FORECAST 18	120/576 120/576	03/15 03/15 03/15 00/12 00/12 06/18 06/18 06/12 00/12 00/12 00/12 00/12 00/12 00/12 1200 1200	DEBCGHAAABB411111523YZZEBBFBBCGH
1420/0220 1430/0230 1440/0240 1450/0250 1500/0300 1510/0310 1520/0320 1530/0330 1543/0343 1556/0356	48/72HR TROPICAL SURFACE FORECAST 48/72HR TROPICAL WAVE PERIOD, SWELL DIR TROPICAL SEA STATE ANALYSIS 24HR TROPICAL WIND/WAVE FORECAST 48HR TROPICAL WIND/WAVE FORECAST 72HR TROPICAL WIND/WAVE FORECAST rebroadcast/SEA STATE ANALYSIS SURFACE ANALYSIS(PART 1 NE PAC) SURFACE ANALYSIS(PART 2 NW PAC) TROPICAL SURFACE ANALYSIS	120/576 120/576 120/576 120/576 120/576 120/576 120/576 120/576 120/576	12/00 12/00 12/00 12/00 12/00 12/00 0000 12/00 12/00 12/00	Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z
_				

MAP AREAS:

A. 30S - 50N, 110W - 130E	B. 30S - 30N, 110W - 130E	Honolulu Forecast Office
C. EQ - 50N, 110W - 130E	D. 30S - 50N, 110W - 160E	Honolulu Forecast Office
E. EQ - 40N, 80W - 170E	F. EQ - 55N, 110W - 160E	Honolulu Forecast Office
G. 05S - 55N, 110W - 155E	H. 40S - 05N, 130W - 165E	Honolulu Forecast Office
1. 20N - 70N, 115W - 135E	2. 20N - 70N, 115W - 175W	Ocean Prediction Center
3. 20N - 70N, 175W - 135E	4. 18N - 62N, EAST OF 157W	Ocean Prediction Center
5. 05N - 55N, EAST OF 180W	,	Ocean Prediction Center
Y. 05N - 32N, EAST OF 130W	Z. 20S - 30N, EAST OF 145W	Tropical Prediction Center

HONOLULU, HAWAII, U.S.A. (Subject to change on or about Aug 01, 2007)

STREAMLINES ARE LINES OF CONSTANT WIND DIRECTION. WIND SPEEDS ARE GIVEN BY WIND BARBS INDEPENDENT OF STREAMLINES.

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

RADIOFAX FREQUENCIES ARE ASSIGNED FREQUENCIES. TO CONVERT TO CARRIER FREQUENCIES, SUBTRACT 1.9 KHZ FROM THE ASSIGNED FREQUENCIES.

YOU MAY ADDRESS COMMENTS ABOUT THIS BROADCAST TO:

Meteorologist In Charge National Weather Service 2525 Correa Rd. Honolulu, HI 96822 PHONE: (808) 973-5275/FAX: (808) 973-5281 E-Mail Nezette.Rydell@noaa.gov

(SCHEDULE EFFECTIVE Jun 20, 2006) (INFORMATION DATED Jun 20, 2006) http://weather.noaa.gov/fax/hawaii.shtml

EUROPE

SKAMLEBAEK, DENMARK

CALL SIGN OXT (1)	5850 kHz 00		TIMES 0028-1005 0003-0025	EMISSION F3C		WER KW
	9300	KI IZ	1008-1215 1243-1305 1828-1850	F3C	20	KW
	13855	kHz	1218-1240 1308-1330 1803-1825	F3C	20	KW
	17510	kHz	1333-1355	F3C	20	KW
TIME	CONTENTS OF T	TRANSMIS:	SION	RPM/IOC	VALID TIME	MAP AREA
0003(2) 0028 0943 1008 1153 1218 1243 1308 1333 1803 1828	ICE CHART #2 (CICE CHART #1 ICE CHART #1 ICE CHART #1 ICE CHART #1 ICE CHART #2 (CICE CHART #2 (CICE CHART #2 (CICE CHART #1 ICE CHART #1 ICE CHART #1 ICE CHART #1 ICE CHART #1	OR#1) OR #1)		120/576 120/576 120/576 120/576 120/576 120/576 120/576 120/576 120/576 120/576		

Chart1: Cape Farewell area (South Greenland) (normally updated 2-5 weekly but infrequently) Chart2: East or West Greenland (normally updated 3-5 times weekly infrequently)

CALL SIGN IS TRANSMITTED FOR A PERIOD OF 2 MINUTES IMMEDIATELY PRIOR TO CHART TRANSMISSION. NOTES:(1)

(INFORMATION DATED Mar 16, 07) http://www.dmi.dk/dmi/index/viden/sendeplan.htm Report received that this service will continue through 2007 when a decision will then be made.

ATHENS, GREECE

CALL SIGI SVJ4 SVJ4	N FREQUENCY TIMES 4481 kHz 8105 kHz	EMISSIO F3C F3C	N POWER 8 KW 8 KW
TIME	CONTENTS OF TRANSMISSION		VALID MAP TIME AREA
0845 0857 0909 0921 0933 0945 0957 1009 1021 1033 1044	SURFACE ANALYSIS SURFACE PROG (H+24) SURFACE PROG (H+48) WAVE HEIGHT PROG (H+30) WAVE HEIGHT PROG (H+36) WAVE HEIGHT PROG (H+42) WAVE HEIGHT PROG (H+48) WAVE HEIGHT PROG (H+30) WAVE HEIGHT PROG (H+36) WAVE HEIGHT PROG (H+42) WAVE HEIGHT PROG (H+48)	120/576 120/576 120/576 120/576 120/576 120/576 120/576 120/576 120/576	0600 A 0600 A 0600 A 1800 B 0000 B 1200 B 1200 B 1800 C 0000 C

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

(INFORMATION DATED (03/2007)

HAMBURG/PINNEBERG, GERMANY

CALL SIGNS	FREQUENCIES	TIMES	EMISSION	POWER
DDH3	3855 kHz	ALL BROADCAST TIMES	F3C	10 KW
DDK3	7880 kHz	ALL BROADCAST TIMES	F3C	20 KW
DDK6	13882.5 kHz	ALL BROADCAST TIMES	F3C	20 KW

TIME	CONTENTS OF TRANSMISSION	RPM/IOC	VALID TIME	MAP AREA
/1520 /1540 0430/1600 0512/ 0525/1800	Ice conditions chart West Baltic Sea or special area Ice conditions chart West Baltic Sea or special area Surface weather chart h + 30 (GME) surface pressure surface pressure analysis, arrows showing the movement of pressure	120/576 120/576 120/576 120/576 120/576	0900 0900 00/12 1800 00/12	ANLA
0546/1821 /1834 0559/ 0612/ 0625/ 0638/ 0717/ 0730/1847 0743/ 0830/1913 0842/1926 0854/1939 0906/ 0930/2100 0945/ 1007/2115 1029/2137 1050/2200 1111/	systems, significant weather, ice Information of tropical storms, North Atlantic (during the season) H+24 (GME) surface pressure H + 12, H + 24 (GME) 500 hPa H + T, surface P H + 12, H + 24 (GME) 850 hPa H + T, 700 hPa U H + 36, H + 48 (GME) 500 hPa H + T, surface P H + 36, H + 48 (GME) 850 hPa H + T, 700 hPa U H + 60, H + 72 (GME) 500 hPa H + T, surface P H + 60, H + 72 (GME) 850 hPa H + T, 700 hPa U Repetition chart 0512 UTC H+48 (GME) surface pressure Repetition chart 0525 UTC H+84 (GME) surface pressure H+108 (GME) surface pressure H+24 (GSM) Sea and swell, wind direction, direction of swell H+72 (GSM) Sea and swell, wind direction, direction of swell H+72 (GSM) Sea and swell, wind direction, direction of swell H+96 (GSM) Sea and swell, wind direction, direction of swell Ice conditions chart Northwest Atlantic Sea surface temperature North Sea Ice conditions chart West Baltic Sea H+48 wave prediction Surface weather chart Transmission schedule	120/576 120/576	03/15 1200 0000 0000 0000 0000 0000 0000 1800 00/12 0000 00/12 00/12 00/12 00/12 00/12 00/12 00/12 00/12 00/12 00/12	
1132/ 1145/	Test chart Repetition chart 1050 UTC	120/576 120/576	0600	

Notes: Abbreviations have the following meaning: GME Global model (31 layers, 60 km) H Contour lines (gpdam) MSL Mean sea level T Isotherms (° C) U Relative humidity (%)

(INFORMATION DATED (Jan 11, 2007) http://www.dwd.de/de/wir/Geschaeftsfelder/Seeschifffahrt/Sendeplaene/broadcast_fax_012007.pdf

ROME, ITALY

CALL SIGI	NS FREC	QUENCIES	TIMES		SSION	POWER
IMB51	4777.5	kHz	ALL BROADÇAST		GC	5 KW
IMB55	8146.6	kHz	ALL BROADCAST		3C	5 KW
IMB56	13597.4	kHz	ALL BROADCAST	ΓIMES F	-3C	5 KW
TIME	CONTENTS O	F TRANSMISS	ION	RPM	/IOC VAL	ID MAP
					TIME	
0048/	FI 390 340 3	00 240 180 10	00, 50 SW for 12/Z di BRAC	KNELL 120/	576	
0248/	SW TMW FL 1	100.450 for 12/Z	di BRACKNELL	120/	576	
0345/	SW TMW FL 1	00.450 FOR 12	/Z (in mancanza della SW d	elle 02:48) 120/		
0400/	DP 3H 00/Z; A	U 500/00Z		120/		
0415/	AS (ORA LÉG	ALE) 00/Z		120/		
0425/ 0437/	FRŽL 00/Z; AU ITALIA 03/Z	J850 00/Z		120/ 120/		
0457/	AS (ORA SOL	ADE) 00/7		120/		
0510/	AU 700 00/Z; /	ALL 300 00/Z		120/		
0522/	AU 200 00/Z;T	MW 00/7		120/	576	
0535/	SWL for 12/Z			120/	576	
0654/	FL 390, 340, 3	00, 240, 180, 10	00, 50 SW for 18/Z di BRAC	KNELL 120/	576	
0848/		100–450 for 18/Z	Z di BRACKNEL	120/		
0859/	FU 500 H + 36			120/		
0906/	FU 500 H + 48	3		120/		
0913/ 0920/	FU 500 H + 72 FU 500 H + 96			120/9 120/9	576	
0920/	FU 500 H + 12			120/		
1000/	SW TMW FI 1	.0 00 <u>–45</u> 0 18/ <i>7 (</i> in	n mancanza della SW delle (08:48) 120/	576	
1030/	FS H + 24; DP	3 HR 06/Z	i mandanza dena evi dene e	120/		
1045/	AS 06/Z			120/	576	
1140/	SWL for 18/Z			120/	576	
1153/	STATO DEL M	IEDITERRANE(O for 12/Z	120/	576	
1200/	ITALIA 09/Z	00 040 400 40	00 F0 CW for 40/7 -1: DDAG	120/	5/6 -70	
1248/ 1448/	FL 390, 340, 3	100, 240, 180, 10	00, 50 SW for 18/Z di BRAC Z di BRACKNELL	KNELL 120/9 120/9	0/6 576	
1555/	SW TMW FL 1	100–450 for 00/2	Z (in mancanza della SW del			
1610/	ITALIA 15/Z	100 400 101 00/2	(III mandanza della evv del	120/		
1630/	SWL for 00/Z			120/	576	
1645/	AS 12/Z			120/	576	
1700/	DP 3HR 12/Z;	AU 500/12Z		120/		
1715/	AU 700 12/Z; /	AU 300 12/Z		120/		
1730/ 1810/	AU 200 12/Z;T FRZL 12/Z; AU	IVIVV 12/Z		120/9 120/9		
1900/	FRZL 12/2, AC	JOSU 12/2 JOO 240 180 10	00, 50 SW for 06/Z di BRAC		576	
2048/	SW TMW FI 1	100, 240, 100, 10	di BRACKNELL	120/	576	
2230/		MEDITERRANE (120/		
2240/	SWL for 06/Z			120/	576	
2252/	ITALIA 21/Z			120/	576	
2312/	AS 18/Z	0.110.407		120/	576	
2322/	FS H + 24; DP	3 HR 18/Z	(in management delle OM/ telle	120/		
2335/	SVV TIVIVV FL 1	100-40 for 06/Z	(in mancanza della SW delle	e 20:48) 120/	0/0	

SW TMW: Tempo significativo + tropopausa e vento massimo;

FZRL: freezing level; SWL: tempo significativo bassi livelli;

AU: analisi in quota; FU: prevista in quota; AS: analisi al suolo; FS: prevista al suolo,

DP: tendenza barometrica.

(Information dated 2002) http://www.marina.difesa.it/idro/documenti/avvisi/2002/15_02.zip

MOSCOW, RUSSIA

RCC76	3830 kHz 5008 kHz 6987 kHz 7695 kHZ 10980 kHz 12961 kHz	EMISSION F3C F3C F3C F3C F3C F3C F3C	I PC	OWER
RDD78	11617 kHz CONTENTS OF TRANSMISSION	RPM/IOC	VALID TIME	MAP AREA
0003//1210 0016//1225 0029//1240 0044//1253 0059//1306 0114/ 0151/1333/1355 0215/1417 0245/1447 0307/1509 0337/1539 0407/1609 0437/1639 0513/1715 0543//1745 0555//1745 0555//1817 0619//1817 0619//1817 0619//1832 0644//1847/1847/1902 0704//1930 0739//1956/1956/2009 0822//1956/2009 0852//201 10922//201 10934//201 10934//2201 1013//2216	18HR SIGNIFICANT WEATHER PROG BELOW 400MB 24HR 300MB PROG 18HR 400MB PROG 30HR 200MB PROG 30HR 200MB PROG 30HR 250MB PROG 30HR 250MB PROG 18HR SIGNIFICANT WEATHER PROG ABOVE 400MB 30HR 250MB PROG 18HR 300MB PROG 18HR SIGNIFICANT WEATHER PROG BELOW 400MB 30HR 300MB PROG 18HR 400MB PROG 500MB ANALYSIS 1000/500MB THICKNESS ANALYSIS 500MB ANALYSIS 400MB ANALYSIS 1000/500MB THICKNESS ANALYSIS 500MB ANALYSIS 400MB ANALYSIS 400MB ANALYSIS 400MB ANALYSIS 400MB ANALYSIS 500MB PROG 24HR/36HR 500MB PROG 24HR/36HR 500MB PROG 30HR 200MB PROG 30HR 200MB PROG 30HR 200MB PROG 30HR 200MB PROG 30HR 300MB PROG 30HR 300MB PROG 30HR 300MB PROG 12HR SIGNIFICANT WEATHER PROG ABOVE 400MB 12HR 300MB PROG 12HR SIGNIFICANT WEATHER PROG BELOW 400MB 12HR 300MB PROG 12HR 400MB PROG 12HR SIGNIFICANT WEATHER PROG BELOW 400MB 50HR 400MB PROG 12HR 50HIFICANT WEATHER PROG BELOW 400MB 50HR 400MB PROG 12HR 50HIFICANT WEATHER PROG BELOW 400MB 50HR 400MB PROG 50HR 400MB PROG 50HR 400MB PROG 50HR 50HR 50HR 50HR 50HR 50HR 50HR 50HR	120/576 120/576 120/576 120/576 120/576 120/576 120/576 120/576 120/576 120/576 120/576 120/576 120/576 90/576 90/576 90/576 90/576 120/576 90/576 90/576 90/576 90/576 90/576 90/576	1200 0000 1200 0000 1200 0000 1200 1200	$\mathcal{O}_{K} = \mathcal{O}_{K} = \mathcalO_{K} $

MOSCOW, RUSSIA

TIME	CONTENTS OF TRANS	SMISSION		R	PM/IOC	VALID TIME	MAP AREA
/2231 1040/2246 1116/	24HR 300MB PROG SURFACE ANALYSIS TECHNICAL STOP			· -	20/576 90/576	1200 09/21	R P
/2322 /2337 1140/	24HR SIGNIFICANT WE 18HR SIGNIFICANT WE 24HR 200MB PROG 18HR 300MB PROG 24HR 250MB PROG		BOVE 400MB	12 12 12	20/576 20/576 20/576 20/576 20/576	1200 1200 0000 0600 0000	R M R M R
MAP AREAS M N P Q R U X	: 1:15,000,000 - 1:30,000,000 - 1:05,000,000 - 1:07,500,000 - 1:30,000,000 - 1:20,000,000 - 1:30,000,000	03N 097W, 0 67N 002E, 4 61N 010E, 4		30N 016W, 32 EQ 142E, 74N 061E, 61N 071E, 18N 149E, 32N 167E, 0N - 20N	2N 072 05S 077 44N 055 43N 059 02S 088 16N 103	E E E	

(INFORMATION DATED 11/1996) (Update 3/2001) - Frequencies reported as 53.8, 10611 and 13886 kHz and also 5108 and 6890 kHz at irregular times. (Update 3/2002) - Frequencies reported as 4318, 5108, 6890(night), 10611 and 13886 (night) (Update 3/2002) - All broadcasts reported as 120/576 or 120/288 mode. 60 or 90 rpm is no longer used.

MURMANSK, RUSSIA

CALL RBW		5336 6445.5 7908.8 10130	i NCIES kHz kHz kHz kHz kHz	TIMES ALL BROADCAST TIMES 1900-0600 0600-1900	EMISSION F3C F3C F3C F3C	l PC	OWER
TIME	CONT	ENTS OF TE	RANSMISSIOI	N	RPM/IOC	VALID TIME	MAP AREA
0700 0800 1400 1400 1430 1850 2000		ANALYSIS EMP ANALY EBERG POS TATE PROG T SCHEDUL	SITIONS FOR	B POSITIONS PAST+24HR	120/576 120/576 120/576 120/576 120/576 90/576 120/576	0000 0600 1200 1200 1200	A C B C C
NOTE	S. (1) DASIC C	OVEDAGE.	ADEA IS EOD	DADENITO SEA MAD ADEAS:			

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

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

(INFORMATION DATED 11/97)
Update 03/2000 - Current operational frequencies report as being 6446 and 8444 kHz (nights) and 7907 kHz (days). Update 03/2000 - Broadcast schedule may no longer be transmitted on-air. Update 03/2002 - May only be transmitting on 6446 kHz.

NORTHWOOD, UNITED KINGDOM

CALL SIGNS	FREQUENCIES	S TIMES	EMISSION	POWER
GYA	2618.5 kHz	At least 2 freg in use at any time	F3C	10 KW
GYA	4610 kHz	At least 2 freg in use at any time	F3C	10 KW
GYA	8040 kHz	At least 2 freg in use at any time	F3C	10 KW
GYA	11086.5 kHz	At least 2 fred in use at any time		10 KW

TIME	CONTENTS OF TRANSMISSION	RPM/IOC	VALID TIME	MAP AREA
0000/1200 0012/1212 0024/1224 0036/1236 0048/1248 0100/1300 0124/1324	SFC ANALYSIS SFC PRONOSIS T+24 850MB WEBT/PPTN T+24 OAT AND TD CONTOUR T+24 SHIP ICE ACCRETION MAIN SCHEDULE QSL REPORT OCEAN FRONTS 300MB GPH SYMBOLOGY SEA SURFACE TEMP T+12 SFC ANALYSIS SFC ANALYSIS GALE WARNING SUMMARY SFC ANALYSIS OAT AND TD CONTOUR T+24 850MB WEBT/PPTN T+24 SURFACE PROGNOSIS T+24 SURFACE PROGNOSIS T+24 SURFACE PROGNOSIS T+48 SCEXA TAFS GALE WARNING SUMMARY SFC ANALYSIS SURFACE PROGNOSIS T+24 SURFACE SCEXA TAFS SIG WINDS T+24 SCEXA TAFS SIG WINDS T+24 SFC PROGNOSIS T+72 SFC PROGNOSIS T+24 SIG WINDS T+48 SIG WINDS T+48 SIG WINDS T+48 SIG WINDS T+48 SIG WINDS T+72 SIG WINDS T+72 SIG WINDS T+74	120/576 120/576 120/576 120/576 120/576 120/576	18/06 18/06 18/06 18/06 12/00	
0136/1336 0148/1348 0212/	OCEAN FRONTS 300MB GPH SYMBOLOGY	120/576 120/576 120/576	18/06	
/1400 0236/1436 0300/1500 0348/1548 0400/1600 0412/1612	SEA SURFACE TEMP T+12 SFC ANALYSIS SFC ANALYSIS GALE WARNING SUMMARY SFC ANALYSIS OAT AND TD CONTOUR T+24	120/576 120/576 120/576 120/576 120/576 120/576	0000 00/12 00/12 04/16 00/12 00/12	
0424/1624 0436/1636 0448/1648 0500/1700	850MB WEBT/PPTN T+24 SURFACE PROGNOSIS T+24 SCEXA TAFS SFC ANALYSIS	120/576 120/576 120/576 120/576	00/12 00/12 00/12 06/18 00/12	
0512/1712 0524/1724 0536/1736 0548/1748	SURFACE PROGNOSIS T+24 SURFACE PROGNOSIS T+48 SCEXA TAFS GALE WARNING SUMMARY	120/576 120/576 120/576 120/576	00/12 00/12 06/18 06/18	
0600/1800 0612/1812 0624/1824 0636/1836	SFC ANALYSIS SURFACE PROGNOSIS T+24 JMC T+12 JMC T+24 SCEXA TAFS	120/576 120/576 120/576 120/576 120/576	00/12 00/12 00/12 00/12 07/19	
0648/1848 0700/1900 0712/1912 0724/1924 0736/1936	SPARE SCEXA TAFS SIG WINDS T+24 SFC PROGNOSIS T+48 SFC PROGNOSIS T+72	120/576 120/576 120/576 120/576 120/576	07/19 07/19 00/12 00/12 00/12	
0748/1948 0800/2000 0812/2012 0824/2024 0836/2036	SFC PROGNOSIS T+96 SFC PROGNOSIS T+120 THICKNESS/GPH ANALYSIS SIG WINDS T+48 SIG WINDS T+72	120/576 120/576 120/576 120/576 120/576	00/12 00/12 00/12 00/12 00/12	
0848/2048 0900/2100 0912/2112 0924/2124	SIG WINDS T+72 SIG WINDS T+96 SFC ANALYSIS THICKNESS/GPH ANALYSIS THICKNESS/GPH T+24	120/576 120/576 120/576 120/576	00/12 06/18 00/12 00/12	
0936/2136 0948/2148 1000/2200 1012/2212 1024/2224	850MB SPOT WINDS T+24 700MB SPOT WINDS T+24 SFC ANALYSIS SURFACE PROGNOSIS T+24 REDUCED VIS T+24	120/576 120/576 120/576 120/576 120/576	00/12 00/12 06/18 06/18 06/18	
1036/2236 1048/2248 1100/2300 1112/2312 1124/2324 1136/2336	OAT AND TD CONTOUR T+24 SFC ANALYSIS SURFACE PROGNOSIS T+24 SEA AND SWELL T+24 THICKNESS/GPH T+24	120/576 120/576 120/576 120/576 120/576 120/576	06/18 06/18 06/18 06/18 00/12 00/12	
1148/2348	GALE WARNING SUMMARY			

All MAPS 54°N.82°W 26°N.45°W 54°N.51°E 28°N.12°E

(SCHEDULE EFFECTIVE 19 JAN 2005)

APPINDICES

NATIONAL WEATHER SERVICE MARINE PRODUCTS VIA INTERNET INCLUDING RADIOFAX

The Internet is <u>not</u> 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. Become familiar with and use other means such as NOAA Weather Radio to obtain the latest forecasts and warnings.

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.

The **Marine Forecasts** 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 Forecasts and Products

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 **NWS Marine Text Forecasts and Products** (http://www.nws.noaa.gov/om/marine//home.htm#text). For convenience, High Seas, Offshore and Coastal marine forecasts are subdivided by sea area or zone and available via the Internet using our text interface or graphic interface. **Individual NWS Forecast Offices and Centers** producing marine forecasts provide links to their products as well as additional regionally focused information (http://www.nws.noaa.gov/om/marine/marine map.htm).

Marine Graphic Forecasts and Products

Graphic marine forecasts are produced by NWS for broadcast via radiofax and also made available via the Internet at Marine Radiofax Charts (http://weather.noaa.gov/fax/marine.shtml)

The National Weather Service also plans to make available marine forecast data in gridded and vector formats for display on electronic charts and use by other value-added applications. Graphics using these data are available via the Internet on an experimental basis for most U.S. coastal areas. See http://www.nws.noaa.gov/om/marine/newsgridded.htm

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/). Ocean surface winds and other data derived from polar orbiting and geostationary satellites may be found on NOAA's Marine Observing Systems Team Homepage (http://manati.orbit.nesdis.noaa.gov/doc/oppt.html) and NOAA's Coastwatch Homepage. (http://coastwatch.noaa.gov/). 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://radar.weather.gov/Conus/index_lite.php) 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/marine/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

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 are available from the **Ocean Modeling Branch** (http://polar.wwb.noaa.gov/), and the 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.

Note: Several charts listed under "Weather Charts", which are no longer required to support NWS

operations, may be terminated or made available at alternate sites. This should not include those which are broadcast by marine radiofacsimile.

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.

Marine Climatolgical Information

User-friendly climatological information for marine coastal areas may be found in **Appendix T of the National Ocean Service's Coast Pilot's**, **volumes 1-9**

(http://chartmaker.ncd.noaa.gov:80/nsd/cpdownload.htm). These appendices, which were prepared by the **National Climatic Data Center** (http://lwf.ncdc.noaa.gov/oa/ncdc.html), also contain other useful meteorological information such as conversion tables. Visit their webpage for further information.

The National Geospacial-Intelligence Agency now makes available some of its Pilot Charts on-line (http://www.nga.mil/portal/site/maritime/).

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).

The WMO also introduced a GMDSS Webpage which provides links to worldwide meteorological bulletins and warnings issued for high seas via SafetyNet (as a first step). See: http://weather.gmdss.org/

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://tidesandcurrents.noaa.gov/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 webages 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/). A variety of marine observations may be viewed on the National Ocean Service's nowCOAST WEb Portal(BETA), (http://chartmaker.ncd.noaa.gov/csdl/op/nowcoast.htm).

NOAA's Forecast Systems Laboratory (FSL) offers a Display of Surface Data (http://www-frd.fsl.noaa.gov/mesonet/) from several government, commercial and voluntarily operated mesonets as well as observations of those of the Voluntary Observing Ship (VOS) Program and data buoys. A variety of marine observations may also be viewed on the National Ocean Service's BETA nowCOAST Web Portal (http://chartmaker.ncd.noaa.gov/csdl/op/nowcoast.htm). For mariners with a low speed Internet connection the latest buoy or C-MAN data may be retrieved via the Internet as in the following example where 44017 refers to buoy #44017.

http://www.ndbc.noaa.gov/mini station page.phtml?station=44017

Tide Predictions, Observations and Storm Surge Forecasts
Near real-time Water Level Observations, and Predicted Tide Information
http://tidesandcurrents.noaa.gov/) for the calendar year are available from the National Ocean
Service (http://www.nos.noaa.gov). Read the NOS Tides FAQ
(http://tidesandcurrents.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.

The National Weather Service's Cleveland Forecast Office makes available a series of **experimental Great Lakes Water Levels Graphs** (http://marine.wcle.noaa.gov/levels.html), using National Ocean Service data, intended to be low-speed-connection-friendly for Internet access by vessels afloat.

Experimental, computer generated, **Extratropical Water Level Forecasts** (www.nws.noaa.gov/tdl/etsurge) are available from the National Weather Service's **Meteorological Development Laboratory** (www.nws.noaa.gov/tdl/). Status maps are provided to give the user a quick overview of a region. Forecasts of storm surge produced as a result of a tropical storm or hurricane are available from **your local NWS Forecast Office** (www.nws.noaa.gov/om/marine/marine map.htm).

The National Ocean Services's Operational Forecast Systems

(http://www.tidesandcurrents.noaa.gov/models.html) provide the maritime community with improved short-term predictions of water levels and currents.

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 Observations from Mariners

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/obs_search.shtml), National Data Buoy Center - Ships Observation Report (http://www.ndbc.noaa.gov/ship_obs.phtml), NOAA's Forecast Systems Laboratory (choose maritime) (http://www-frd.fsl.noaa.gov/mesonet/), CoolWX (http://www.coolwx.com/buoydata/), SAILWX (http://www.sailwx.info/) , and Oceanweather (http://www.oceanweather.com/data/index.html) webpages

The National Weather Service has a number of other volunteer observation programs including the SKYWARN, MAREP, MAROB, MARS, APRSWXNET/Citizen Weather Observer Program (CWOP) and the Cooperative Observer Program (COOP) which are of benefit to the marine community. See: http://www.nws.noaa.gov/om/marine/voluntary.htm

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

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), **TeleSea** (http://www.teleseawireless.net//) and **Motient** (http://www.motient.com/), are beginning to become available, however, these provide limited maritime coverage. These companies may employ "Marine WIFI" technology which is rapidly becoming popular at marinas and in favorite harbor areas. Satellite services including **Inmarsat** (www.inmarsat.org), **Iridium** (www.iridium.com/), **Globalstar** (www.globalstarusa.com), **Thuraya** (www.thuraya.com), **Emsat** (www.eutelsat.com/products/2_4_2.html), **AceS** (www.acesinternational.com/), **tracNet/DirecPC** (www.kvh.com/MarineSat/index.asp?flash=yes), **Mobile Satellite Ventures** (www.tmi.ca), **Boatracs** (www.boatracs.com, **Orbcomm** (www.orbcomm.com), **Digital Seas International**(http://www.mtnsat.com/digitalseas.htm), and **MTN** (www.mtnsat.com) are available, however, costs are generally greater.

Several companies offer e-mail services designed to optimize satellite connectivity including MAILASAIL (http://www.mailasail.com/), MarineNet (http://www.marinenet.net/), OCENS (http://www.ocens.com/cgi-bin/ocens_mail.pl?p=info), Telaurus (http://www.telaurus.net/) and UUPLUS (http://www.uuplus.com/). 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.faqs.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), , **CruiseEmail** (www.cruiseemail.com/index.html), **MarineNet** (www.marinenet.net), Kielradio (www.kielradio.de/GB/Start_GB.htm), **Globe Wireless** (www.globewireless.com), **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).

The domain of the Internet is rapidly expanding to now include wireless devices such as so-called "Internet-Ready" digital cellular phones and Personal Data Assistants (PDAs). These offer great potential for making marine forecasts available to coastal mariners, who have limited other options available. The majority of these other options are by voice where there is always the possibility of misunderstanding. A PDA-friendly webpage for the most popular marine text forecasts may be found at http://www.nws.noaa.gov/om/marine/marinewxi.htm. Visit

http://www.nhc.noaa.gov/aboutwap.shtml where you will find NHC/TPC's wireless web page. There you can find the link to obtain NHC/TPC's most popular hurricane products, offshore forecasts, and high seas forecast, using your own Internet-ready phone, or use one of simulators for which a link is provided. Also visit the Miami Forecast Office's Wireless Access Page

(http://www.srh.noaa.gov/mfl/newpage/wireless.html). A WAP webpage for offshore and coastal forecasts created by our Southern Region headquarters may be found at: www.srh.noaa.gov/wml (includes a capability to view forecast for any zip/city). Note....WAP/WML webpages require a WAP-capable celphone or other WAP-capable device.

A number of Cellular service providers are beginning to offer value-added Internet-like services which provide access to NOAA tide data, marine forecasts, and other items of interest to the wireless customer. These require a digital phone with some of the more advanced features. See your Cellular service provider for details. There may be a nominal fee required for using these services. Examples of specific interest to the mariner include Ekkosoft's "SaltWater Tides" and "MarineWeather with marine411" (http://www.ekkosoft.com/)

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

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 (11 KBytes), or visit http://weather.noaa.gov/pub/fax/ftpmail.txt.

Send an e-mail to: Subject line: ftpmail@weather.noaa.gov

Put anything you like

Body:

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.

An FAQ webpage describing several public and commercial FTP-to-EMAIL and WWW-to-EMAIL servers may be found at:

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

A webpage describing several different e-mail "robots" similar in concept to FTPMAIL, including some with advanced features such as allowing retrieval of NWS marine GRIB files, simple webpages, and allowing products to be retrieved on a scheduled, recurring basis may be found at: http://weather.noaa.gov/pub/fax/robots.txt

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).

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). **Computer Sciences Corporation** (http://dynis.fedcsc.com/contracts/other/nwws/options.htm) broadcasts the entire Weather Wire product stream on the Internet as a commercial service.

Change Notices

For details on changes to NWS products, visit the Office of Climate, Water, and Weather Services Service Change Notifications (http://www.nws.noaa.gov/om/notif.htm), the **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). A summary of recent changes of most interest to mariners and coastal residents may be found at http://www.nws.noaa.gov/om/marine/recent.htm

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://tgftp.nws.noaa.gov/data/forecasts/marine/

http://weather.noaa.gov/pub/data/raw/ftp://tgftp.nws.noaa.gov/data/raw/

http://www.ndbc.noaa.gov/data/Forecasts/

http://www.weather.gov/data/ http://www.srh.noaa.gov/data

http://www.crh.noaa.gov/product_types.php

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.opc.ncep.noaa.gov/shtml/

NATIONAL WEATHER SERVICE INTERNET SITES

NWS Homepage http://www.nws.noaa.gov

NWS Marine Forecasts http://www.nws.noaa.gov/om/marine/home.htm

NWS Marine Text Products http://www.nws.noaa.gov/om/marine/home.htm#text

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.amverseas.noaa.gov/seas/

U.S. NAVY AND OTHER WEATHER INTERNET SITES

See these sites for further links

Naval Oceanographic Office https://www.navo.navy.mil/

Navy Fleet Numerical https://www.fnmoc.navy.mil/

International Ice patrol http://www.uscg.mil/lantarea/iip/home.html

National Ice Center http://www.natice.noaa.gov

WMO Homepage http://www.wmo.ch

JCOMM GMDSS http://weather.gmdss.org/

USCG Maritime Telecommunications http://www.navcen.uscg.gov/marcomms

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:

* timothy.rulon@noaa.gov 301-713-1677 x 128

**** IMPORTANT NOTICE ****

Effective Jan 23, 07 if you restrict incoming e-mail as a means of preventing spam, you must program your e-mail system to allow messages from ftpmail@tmpfmail.nws.noaa.gov in addition to the original four email addresses below.

**** NEW USERS....Read these notes Carefully *****

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

FTPMAIL e-mail requests must be sent in ASCII/Plain Text only. HTML formatting will likely result in no response from the FTPMAIL server.

tgftp.nws.noaa.gov is the only valid FTP site for this service.

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.

NOTICE - Check time and date of forecasts. Downloaded data may not represent the latest forecast. 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. Become familiar with and use other means such as NOAA Weather Radio to obtain the latest forecasts and warnings. Please read our disclaimer at http://www.nws.noaa.gov/disclaimer.php

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 the tgftp.nws.noaa.gov Internet FTP server is accessible using the FTPMAIL service.

To use FTPMAIL, the user sends a small script file via e-mail to NWS requesting the desired file(s).

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 but can be much greater. 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 (tgftp.nws.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 (tgftp.nws.noaa.gov) and send back the chart file PWAE98.TIF to e-mail address of requestor

open
cd data
cd forecasts
cd marine
cd coastal
cd an
get anz231.txt
quit

Connect to default_site (tgftp.nws.noaa.gov) and send back coastal marine zone forecast ANZ231 to e-mail address of requestor

open cd data cd forecasts cd zone cd md get mdz009.txt quit

Connect to default_site (tgftp.nws.noaa.gov) and send back public land zone forecast MDZ009 to e-mail address of requestor. (Contact your local forecast office to identify the public forecast zone number for your county, known as the UGC code)

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

Connect to default_site (tgftp.nws.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 Trop Atl radiofax file dir)
get rfaxak.txt
                    (Alaska radiofax and ice file directory)
                    (Hawaii radiofax file directory)
get rfaxhi.txt
get otherfax.txt
                    (Foreign charts file directory)
get marine1.txt
                    (Highseas, Offshore, Open Lakes, NAVTEX text file dir)
                    (Hurricane text file directory)
get marine2.txt
                    (Coastal forecasts text file directory)
get marine3.txt
                    (Offshore forecasts by zone directory)
get marine4.txt
                    (Atlantic coastal forecasts by zone directory)
get marine5.txt
                    (Pacific coastal forecasts by zone directory)
get marine6.txt
get marine7.txt
                    (Gulf of Mexico coastal forecasts by zone dir)
get marine8.txt
                    (Great Lakes coastal forecasts by zone directory)
                    (Alaska coastal forecasts by zone directory)
get marine9.txt
get marine10.txt
                    (Hawaii&Trust coastal forecasts by zone directory)
                    (UK marine forecasts from Bracknell directory)
get uk.txt
                    (Canadian marine text forecast directory)
get canada.txt
                    (Tsunami products directory)
get tsunami.txt
get robots.txt
                    (Marine forecasts and info via e-mail systems)
quit
```

Connect to default_site (tgftp.nws.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/AWIPS Header is known as follows.

Example:

To obtain the Atlantic high seas Forecast, WMO header FZNT01 KWBC, AWIPS header HSFAT1

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

Body:

open
cd data
cd raw
cd fz

get fznt01.kwbc.hsf.at1.txt

quit

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

FTPMAIL e-mail requests must be sent in ASCII/Plain Text only. HTML formatting will likely result in no response from the FTPMAIL server.

Problems have recently been reported by users of Hotmail. If you are a Hotmail user and are using the system successfully, please notify us of and your experiences and any workarounds you may have developed.

If you restrict incoming e-mail as a means of preventing spam, you must program your e-mail system to allow messages from: ftpmail@tgsv22.nws.noaa.gov, ftpmail@tgsv23.nws.noaa.gov, ftpmail@tgsv24.nws.noaa.gov ftpmail@tgsv25.nws.noaa.gov ftpmail@tmpfmail.nws.noaa.gov

The majority of error messages have been disabled. You may or may not receive an error message back from FTPMAIL if your script is in error.

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.

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

An FAQ webpage describing several public and commercial FTP-to-EMAIL and WWW-to-EMAIL servers may be found at: 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 Feb 06, 2007

Document URL: http://weather.noaa.gov/pub/fax/ftpmail.txt

ftp://tgftp.nws.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.
NOTE: Capitalization is critical for this server. Commands are
      un-capitalized, while some directory and file names are
      CAPITALIZED, while others are un-capitalized.
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
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
>>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
                         Change directory.
cd pathname
```

cd .. Move up 1 directory.

cd / Move to the root 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 splitup 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 August 01, 2003

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
All programs that support Quicktime 6.0+
Netscape 7.0 (Free)
Internet Explorer 5.1 (Free)
Eudora Pro 4.2 (shareware)
PictureViewer QT 6.0 (Free included with Macs)
Graphic Converter 3.6 - 4.x (shareware)
Canvas 7.0 +
Photoshop Elements 2.0 (Free with Wacom Tablets etc.)
Photoshop 6.0 +
Canon file viewer utility 1.3.2.9 (included with Canon Digital cameras)
Media Assistant 2.0.4 (image cataloger) Low cost
Cumulus 5.5 (Image Cataloger) Low cost
Author: Timothy Rulon, W/OS21, National Weather Service
      Last Modified Tuesday, Oct 25, 04
        Document URL: http://tgsv5.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. Satellite images are in JPEG format. These charts may be found in directory: ftp://tgftp.nws.noaa.gov/fax or http://weather.noaa.gov/pub/fax

For information of how these files and other text and graphic marine forecasts may be downloaded via e-mail (FTPMAIL) see: http://weather.noaa.gov/pub/fax/ftpmail.txt

.TIF files now also available as .gif files

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.

PAY ATTENTION TO CAPITALIZATION:

Example using FTPMAIL:

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

Body: open

cd fax

get PPAE10.TIF
get PWAE98.gif

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

WIND/SEAS CHARTS	FILE NAME
12Z Sea State Analysis, 10E-95W Northern Hemisphere	PJAA99.TIF
00Z Wind/Wave Analysis, 40W-98W Northern Hemisphere	PWAA88.TIF
12Z Wind/Wave Analysis, 40W-98W Northern Hemisphere	PWAA89.TIF
Wind/Wave Analysis, (Most Current)	PWAA90.TIF
24HR Wind/Wave Chart VT00Z Forecast 40W-98W N. Hemisphere	PWAE98.TIF
24HR Wind/Wave Chart VT12Z Forecast 40W-98W 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 48HR Wave Period VT12Z Forecast 10E-95W Northern Hemisphere 48HR Wave Period Chart Forecast (Most Current) 96HR Wind/Wave Chart VT12Z Forecast 10E-95W N. Hemisphere 96HR Wave Period VT12Z Forecast 10E-95W N. Hemisphere	PJAI88.TIF PJAI89.TIF PJAI20.TIF PJAM98.TIF PJAM88.TIF
SURFACE CHARTS	
00Z Preliminary Surface Chart Analysis 45W-85W N. Hemisphere 06Z Preliminary Surface Chart Analysis 45W-85W N. Hemisphere 12Z Preliminary Surface Chart Analysis 45W-85W N. Hemisphere 18Z Preliminary Surface Chart Analysis 45W-85W N. Hemisphere 18Z Preliminary Surface Chart Analysis (Most Current) 00Z Surface Analysis Chart, Part 1, 10E-45W N. Hemisphere 00Z Surface Analysis Chart, Part 2, 40W-95W N. Hemisphere 06Z Surface Analysis Chart, Part 1, 10E-45W N. Hemisphere 06Z Surface Analysis Chart, Part 1, 10E-45W N. Hemisphere 12Z Surface Analysis Chart, Part 2, 40W-95W N. Hemisphere 12Z Surface Analysis Chart, Part 1, 10E-45W N. Hemisphere 12Z Surface Analysis Chart, Part 2, 40W-95W N. Hemisphere 18Z Surface Analysis Chart, Part 1, 10E-45W N. Hemisphere 18Z Surface Analysis Chart, Part 2, 40W-95W N. Hemisphere 18Z Surface Analysis Chart, Part 1, (Most Current) Surface Analysis Chart, Part 2, 40W-95W N. Hemisphere 24HR Surface Chart VT10Z Forecast 40W-98W Northern Hemisphere 24HR Surface Chart Forecast (Most Current) 48HR Surface Chart VT00Z Forecast 10E-95W Northern Hemisphere 48HR Surface Chart VT12Z Forecast 10E-95W Northern Hemisphere 48HR Surface Chart Forecast (Most Current)	PYAA10.TIF PYAB01.TIF PYAC01.TIF PYAC01.TIF PYAD01.TIF PYAA01.TIF PYAA02.TIF PYAA03.TIF PYAA05.TIF PYAA05.TIF PYAA06.TIF PYAA07.TIF PYAA08.TIF PYAA11.TIF PYAA11.TIF PYAA12.TIF PPAE00.TIF PPAE01.TIF PPAE10.TIF PPAE10.TIF QDTM85.TIF QDTM86.TIF QDTM86.TIF
96HR Surface Chart VT12Z Forecast 10E-95W Northern Hemisphere	PWAM99.TIF
UPPER AIR CHARTS	
00Z 500MB Surface Chart Analysis 10E-95W Northern Hemisphere 12Z 500MB Surface Chart Analysis 10E-95W Northern Hemisphere 500MB Surface Chart Analysis (Most Current) 24HR 500MB Chart VT00Z Forecast 10E-95W Northern Hemisphere 24HR 500MB Chart VT12Z Forecast 10E-95W Northern Hemisphere 24HR 500MB Chart Forecast (Most Current) 36HR 500MB Chart VT00Z Forecast 10E-95W Northern Hemisphere 36HR 500MB Chart VT12Z Forecast 10E-95W Northern Hemisphere 36HR 500MB Chart Forecast (Most Current) 48HR 500MB Chart VT00Z Forecast 10E-95W Northern Hemisphere 48HR 500MB Chart VT12Z Forecast 10E-95W Northern Hemisphere 48HR 500MB Chart VT12Z Forecast 10E-95W Northern Hemisphere 48HR 500MB Chart VT12Z Forecast 10E-95W Northern Hemisphere	PPAA50.TIF PPAA51.TIF PPAA51.TIF PPAE50.TIF PPAE51.TIF PPAE51.TIF PPAG50.TIF PPAG51.TIF PPAG51.TIF PPAI50.TIF PPAI50.TIF PPAI50.TIF PPAI50.TIF
TROPICAL CYCLONE CHARTS	
Tropical Cyclone Danger Area* VT03, 05N-60N, 00W-100W Tropical Cyclone Danger Area* VT09, 05N-60N, 00W-100W Tropical Cyclone Danger Area* VT15, 05N-60N, 00W-100W Tropical Cyclone Danger Area* VT21, 05N-60N, 00W-100W Tropical Cyclone Danger Area* (Most Current)	PWEK89.TIF PWEK90.TIF PWEK91.TIF PWEK88.TIF PWEK11.TIF
SATELLITE IMAGERY	
00Z GOES IR Satellite Image, West Atlantic 06Z GOES IR Satellite Image, Atlantic 12Z GOES IR Satellite Image, West Atlantic 18Z GOES IR Satellite Image, Atlantic W Atlantic or Atlantic (Most Current)	evnt00.jpg evnt06.jpg evnt12.jpg evnt18.jpg evnt99.jpg

ICE CHARTS

Ice Chart from U.S. Coast Guard International Ice Patrol PIEA88.TIF
(During Ice Season only ~Feb-Sep, for further information see:
http://www.uscg.mil/lantarea/iip/home.html)

SCHEDULE INFORMATION

Radiofax Schedule Part 1 (Boston, MA)

Radiofax Schedule Part 2 (Boston, MA)

Radiofax Schedule (DOS Text Version)

Request for Comments

PLAZ02.TIF

Product Notice Bulletin

Test Pattern

Internet File Names (This file)

PLAZ04.TIF

rfaxatl.txt

* Tropical Cyclone Danger Area chart replaced by High Wind/Wave Warning chart Dec 01-May 15. Valid times 00z, 06z, 12z and 18z. Map area 05N-40N, 35W-100W

Tropical cyclone charts also broadcast from New Orleans, LA

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

Author: Timothy Rulon, Office of Marine and Coastal Services W/OS21,

National Weather Service Last Modified Feb 08, 2007

Document URL: http://weather.noaa.gov/pub/fax/rfaxatl.txt ftp://tgftp.nws.noaa.gov/fax/rfaxatl.txt

NATIONAL WEATHER SERVICE RADIOFAX PRODUCTS for the North and Tropical East Pacific

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

Assigned frequencies 4346, 8682, 12786, 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://tgftp.nws.noaa.gov/fax or http://weather.noaa.gov/pub/fax

For information of how these files and other text and graphic marine forecasts may be downloaded via e-mail (FTPMAIL) see: http://weather.noaa.gov/pub/fax/ftpmail.txt

.TIF files now also available as .gif files

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.

PAY ATTENTION TO CAPITALIZATION:

Example using FTPMAIL:

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

Body: open cd fax

get PWBE10.TIF

get PWBM99.gif

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

WIND/WAVE CHARTS		FILE NAME
12Z Wind/Wave Analysis 18Z Wind/Wave Analysis	18N-62N, E OF 157W 18N-62N, E OF 157W	PJBA99.TIF PWBA88.TIF PWBB88.TIF PWBA89.TIF PWBD89.TIF PWBA90.TIF
24HR Wind/Wave Forecast 24HR Wind/Wave Forecast 24HR Wind/Wave Forecast	VT00Z 18N-62N, E of 157W VT12Z 18N-62N, E of 157W	PWBE98.TIF PWBE99.TIF PWBE10.TIF 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 VT12Z 20N-70N, 115W-135E	PJBM98.TIF
96HR Wave Period/Swell Direction VT12Z 20N-70N, 115W-135E	PJBM88.TIF

TROPICAL WIND/WAVE CHARTS

Tropical Sea State Analysis VT00Z 20S-30N, E of 145W	PKFA88.TIF
Tropical Sea State Analysis VT12Z 20S-30N, E of 145W	PKFA89.TIF
Tropical Sea State Analysis (Most Current)	PKFA10.TIF
24HR Wind/Wave Forecast VT00Z 20S-30N, E of 145W	PWFE01.TIF
24HR Wind/Wave Forecast VT06Z 20S-30N, E of 145W	PWFE02.TIF
24HR Wind/Wave Forecast VT12Z 20S-30N, E of 145W	PWFE03.TIF
24HR Wind/Wave Forecast VT18Z 20S-30N, E of 145W	PWFE04.TIF
24HR Wind/Wave Forecast (Most Current)	PWFE10.TIF
48HR Wind/Wave Forecast VT00Z 20S-30N, E of 145W	PWFI88.TIF
48HR Wind/Wave Forecast VT12Z 20S-30N, E of 145W	PWFI90.TIF
48HR Wind/Wave Forecast (Most Current)	PWFI10.TIF
48HR Wave Period/Swell Direction VT00Z 20S-30N,E of 145W	PJFI87.TIF
48HR Wave Period/Swell Direction VT12Z 20S-30N, E of 145W	PJFI88.TIF
48HR Wave Period/Swell Direction (Most Current)	PJFI11.TIF
72HR Wind/Wave Forecast VT00Z 20S-30N, E of 145W	PWFK92.TIF
72HR Wind/Wave Forecast VT12Z 20S-30N, E of 145W	PWFK93.TIF
72HR Wind/Wave Forecast (Most Current)	PWFK10.TIF
72HR Wave Period/Swell Direction VT00Z 20S-30N,E of 145W	PJFK93.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)	PYBA90.TIF
Surface Analysis, Part 2 (Most Current)	PYBA91.TIF
24HR Surface Forecast VT00Z Forecast 18N-62N, E of 157W	PPBE00.TIF
24HR Surface Forecast VT12Z Forecast 18N-62N, E of 157W	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 VT12Z 20N-70W, 115W-135E	PWBM99.TIF

TROPICAL SURFACE CHARTS

00Z East Pacific Surface Analysis 20S-30N, E of 145W	PYFA96.TIF
06Z East Pacific Surface Analysis 20S-30N, E of 145W	PYFA97.TIF
12Z East Pacific Surface Analysis 20S-30N, E of 145W	PYFA98.TIF
18Z East Pacific Surface Analysis 20S-30N, E of 145W	PYFA99.TIF
East Pacific Surface Analysis Most Current	PYFA90.TIF
@00Z U.S./Tropical Surface Analysis 5S-50N,55W-125W	PYEB86.TIF
@06Z U.S./Tropical Surface Analysis 5S-50N,55W-125W	PYEB87.TIF
@12Z U.S./Tropical Surface Analysis 5S-50N,55W-125W	PYEB85.TIF

@18Z U.S./Tropical Surface Analysis 5S-50N,55W-125W @ U.S./Tropical Surface Analysis (Most Current) @24HR Tropical Surface ForecastVT00,20S-30N,80W-145W @24HR Tropical Surface Forecast(Most Current); @48HR Tropical Surface ForecastVT00,20S-30N,80W-145W @48HR Tropical Surface ForecastVT12,20S-30N,80W-145W @48HR Tropical Surface ForecastVT12,20S-30N,80W-145W @48HR Tropical Surface Forecast(Most Current); @72HR Tropical Surface ForecastVT00,20S-30N,80W-145W @72HR Tropical Surface ForecastVT12,20S-30N,80W-145W @72HR Tropical Surface ForecastVT12,20S-30N,80W-145W @72HR Tropical Surface Forecast (Most Current);	PYEB88.TIF PYEB11.TIF PYFE79.TIF PYFE80.TIF PYFE10.TIF PYF181.TIF PYF182.TIF PYF110.TIF PYFK83.TIF PYFK84.TIF PYFK84.TIF
@/ZHR Iropical Surface Forecast (Most Current),	PIFKIU.IIF
UPPER AIR CHARTS	
00Z 500 MB Analysis 20N-70N 115W-135E 12Z 500 MB Analysis 20N-70N, 115W-135E 500 MB Analysis (Most Current) 24HR 500 MB Forecast VT00Z 20N-70N, 115W-135E	PPBA50.TIF PBBA51.TIF PPBA10.TIF PPBE50.TIF

00Z 500 MB Analysis 20N-70N 115W-135E	PPBA50.TIF
12Z 500 MB Analysis 20N-70N, 115W-135E	PBBA51.TIF
500 MB Analysis (Most Current)	PPBA10.TIF
24HR 500 MB Forecast VT00Z 20N-70N, 115W-135E	PPBE50.TIF
24HR 500 MB Forecast VT12Z 20N-70N, 115W-135E	PPBE51.TIF
24HR 500 MB Forecast (Most Current)	PPBE11.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 VT12Z 20N-70N, 115W-135E	PPBM50.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	(Mo	ost (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 150W	PTBA89.TIF

SATELLITE IMAGERY

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

@ Not transmitted via Pt. Reyes radiofax but listed here for convenience

Many of these charts also broadcast from Kodiak, AK and Honolulu, HI

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 Feb 08, 2007

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, Caribbean, Tropical Atlantic and Tropical E Pacific

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

Assigned frequencies 4317.9, 8503.9 12789.9, 17146.4 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://tgftp.nws.noaa.gov/fax or http://weather.noaa.gov/pub/fax

For information of how these files and other text and graphic marine forecasts may be downloaded via e-mail (FTPMAIL) see: http://weather.noaa.gov/pub/fax/ftpmail.txt

.TIF files now also available as .gif files

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.

PAY ATTENTION TO CAPITALIZATION:

Example using FTPMAIL:

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

Body: open cd fax

get PWEE11.TIF
get PYEA11.gif

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

	FILE
WIND/WAVE CHARTS	NAME
OOF Con Chaha Amalassia ON 21M 25M 100M	PJEA88.TIF
00Z Sea State Analysis, 0N-31N, 35W-100W	PULA88.IIF
12Z Sea State Analysis, ON-31N, 35W-100W	PJEA90.TIF
Sea State Analysis (Most Current)	PJEA11.TIF
24HR Wind/Wave Forecast VT00, ON-31N, 35W-100W	PWEE89.TIF
24HR Wind/Wave Forecast VT06, ON-31N, 35W-100W	PWEE90.TIF
24HR Wind/Wave Forecast VT12, ON-31N, 35W-100W	PWEE91.TIF
24HR Wind/Wave Forecast VT18, ON-31N, 35W-100W	PWEE92.TIF
24HR Wind/Wave Forecast (Most Current)	PWEE11.TIF
48HR Wind/Wave Forecast VT00, ON-31N, 35W-100W	PWEI88.TIF
48HR Wind/Wave Forecast VT12, ON-31N, 35W-100W	PWEI89.TIF
48HR Wind/Wave Forecast (Most Current)	PWEI11.TIF

48HR Wave Period/Swell Dir Forecast VT00, ON-31N, 35W-100W 48HR Wave Period/Swell Dir Forecast VT12, ON-31N, 35W-100W 48HR Wave Period/Swell Direction Forecast (Most Current) 72HR Wind/Wave Forecast VT00, ON-31N, 35W-100W 72HR Wind/Wave Forecast VT12, ON-31N, 35W-100W 72HR Wind/Wave Forecast (Most Current) 72HR Wave Period/Swell Dir Forecast VT00, ON-31N, 35W-100W	PJEI88.TIF PJEI89.TIF PJEI11.TIF PJEK88.TIF PJEK89.TIF PJEK11.TIF PKEK88.TIF
SURFACE CHARTS	
@00Z U.S./Tropical Surface Analysis (W Half) 5S-50N,55W-125W @06Z U.S./Tropical Surface Analysis (W Half) 5S-50N,55W-125W @12Z U.S./Tropical Surface Analysis (W Half) 5S-50N,55W-125W @18Z U.S./Tropical Surface Analysis (W Half) 5S-50N,55W-125W @ U.S./Tropical Surface Analysis (W Half) 6S-50N,55W-125W @ U.S./Tropical Surface Analysis (E Half) 5S-50N, 0W-70W 06Z Tropical Surface Analysis (E Half) 5S-50N, 0W-70W 12Z Tropical Surface Analysis (E Half) 5S-50N, 0W-70W 12Z Tropical Surface Analysis (E Half) 5S-50N, 0W-70W 18Z Tropical Surface Analysis (E Half) 5S-50N, 0W-70W 18Z Tropical Surface Analysis (E Half) (Most Current) 24HR Tropical Surface Forecast(E Half)VT00,00N-31N, 35W-100W 18Z Tropical Surface Forecast(E Half)VT12,00N-31N, 35W-100W 18Z Tropical Surface Forecast(Most Current)	PYEB86.TIF PYEB87.TIF PYEB85.TIF PYEB88.TIF PYEB11.TIF PYEA86.TIF PYEA85.TIF PYEA85.TIF PYEA85.TIF PYEA80.TIF PYEE10.TIF PYEE10.TIF PYEI81.TIF PYEI81.TIF PYEI81.TIF PYEI81.TIF PYEI81.TIF PYEI81.TIF PYEK83.TIF PYEK83.TIF PYEK84.TIF PYEK84.TIF PYEK84.TIF
@ For further forecasts covering the Tropical East Pacific, see Pt. Reyes and Honolulu charts	
TROPICAL CYCLONE CHARTS	
Tropical Cyclone Danger Area* VT03, 05N-60N, 00W-100W Tropical Cyclone Danger Area* VT09, 05N-60N, 00W-100W Tropical Cyclone Danger Area* VT15, 05N-60N, 00W-100W Tropical Cyclone Danger Area* VT21, 05N-60N, 00W-100W Tropical Cyclone Danger Area* (Most Current)	PWEK89.TIF PWEK90.TIF PWEK91.TIF PWEK88.TIF PWEK11.TIF
HIGH SEAS FORECASTS	
04Z High Seas Forecast 7N-31N, 35W-98W, In English 10Z High Seas Forecast 7N-31N, 35W-98W, In English 16Z High Seas Forecast 7N-31N, 35W-98W, In English 22Z High Seas Forecast 7N-31N, 35W-98W, In English High Seas Forecast (Most Current)	PLEA86.TIF PLEA87.TIF PLEA89.TIF PLEA88.TIF PLEA10.TIF
SATELLITE IMAGERY	
0645Z GOES IR Satellite Image, 12S-44N, 28W-112W 1145Z GOES IR Satellite Image, 12S-44N, 28W-112W 1745Z GOES IR Satellite Image, 12S-44N, 28W-112W 2345Z GOES IR Satellite Image, 12S-44N, 28W-112W GOES IR Satellite Image (Most Current)	evst06.jpg evst12.jpg evst18.jpg evst00.jpg evst99.jpg
SCHEDULE INFORMATION	
Radiofax Schedule (New Orleans, LA) Radiofax Schedule (DOS Text Format) Request for Comments	PLEZ01.TIF hfgulf.txt PLEZ02.TIF

Product Notice Bulletin
Test Chart
Internet File Names, (This file)

PLEZ03.TIF PZZZ95.TIF rfaxmex.txt

* Tropical Cyclone Danger Area chart replaced by High Wind/Wave Warning chart Dec 01 - May 15, valid times 00z, 06z, 12z and 18z, 05N - 40N, 35W - 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 Feb 08, 2007

Document URL: http://weather.noaa.gov/pub/fax/rfaxmex.txt ftp://tgftp.nws.noaa.gov/pub/fax/rfaxmex.txt

NATIONAL WEATHER SERVICE RADIOFAX PRODUCTS for the Northeast and Eastern Pacific

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 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://tgftp.nws.noaa.gov/fax or http://weather.noaa.gov/pub/fax

For information of how these files and other text and graphic marine forecasts may be downloaded via e-mail (FTPMAIL) see: http://weather.noaa.gov/pub/fax/ftpmail.txt

.TIF files now also available as .gif files

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.

PAY ATTENTION TO CAPITALIZATION:

Example using FTPMAIL:

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

Body:

open cd fax

get PJBI99.TIF
get PYBE10.gif

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

WIND/WAVE CHARTS	FILE NAME
00Z Sea State Analysis 20N-70N, 115W-135E 24HR Wind/Wave Forecast VT00Z 40N-70N, 115W-170E 24HR Wind/Wave Forecast VT12Z 40N-70N, 115W-170E 24HR Wind Wave Forecast (Most Current) 48HR Wind/Wave Forecast VT00Z 20N-70N, 115W-135E 48HR Wind/Wave Forecast VT12Z 20N-70N, 115W-135E 48HR Wind Wave Forecast (Most Current)	PJBA99.TIF PJBE88.TIF PJBE89.TIF PJBE10.TIF PJBI98.TIF PJBI99.TIF PJBI10.TIF
48HR Wave Period/Swell Direction VT00Z 20N-70N, 115W-135E	PJBI88.TIF

48HR Wave Period/Swell Direction VT12Z 20N-70N, 115W-135E 48HR Wave Period/Swell Direction (Most Current) 96HR Wind/Wave Forecast VT12Z 20N-70N, 115W-135E 96HR Wave Period/Swell Direction VT12Z 20N-70N, 115W-135E	PJBI89.TIF PJBI20.TIF PJBM98.TIF PJBM88.TIF
SURFACE CHARTS	
00Z Surface Analysis 40N-70N, 125W-150E 06Z Surface Analysis 40N-70N, 125W-150E 12Z Surface Analysis 40N-70N, 125W-150E 18Z Surface Analysis 40N-70N, 125W-150E Surface Analysis (Most Current) 24HR Surface Chart Forecast VT00Z 40N-70N, 115W-170E 24HR Surface Chart Forecast VT12Z 40N-70N, 115W-170E 24HR Surface Chart Forecast (Most Current) 48HR Surface Chart Forecast VT00Z 20N-70N 115W-135E 48HR Surface Chart Forecast VT12Z 20N-70N 115W-135E 48HR Surface Chart Forecast (Most Current) 96HR Surface Chart Forecast (Most Current)	PYCA00.TIF PYCA01.TIF PYCA02.TIF PYCA03.TIF PYCA10.TIF PYBE00.TIF PYBE01.TIF PYBE10.TIF PWB199.TIF PWB198.TIF PWB110.TIF PWB199.TIF
UPPER AIR CHARTS	
00Z 500 MB Analysis 20N-70N 115W-135E 12Z 500 MB Analysis 20N-70N, 115W-135E 500 MB Analysis (Most Current) 24HR 500 MB Forecast VT00Z 20N-70N, 115W-135E 24HR 500 MB Forecast VT12Z 20N-70N, 115W-135E 24HR 500 MB Forecast (Most Current) 48HR 500 MB Forecast VT00Z 20N-70N, 115W-135E 48HR 500 MB Forecast VT12Z 20N-70N, 115W-135E 48HR 500 MB Forecast (Most Current) 96HR 500 MB VT12Z 20N-70N, 115W-135E	PPBA50.TIF PBBA51.TIF PPBA10.TIF PPBE50.TIF PPBE51.TIF PPBE11.TIF PPBI50.TIF PPBI51.TIF PPBI50.TIF PPBI50.TIF
SEA SURFACE TEMPERATURES	
Sea Surface Temperature Analysis 40N-60N,125W - 160E	PTCA88.TIF
SATELLITE IMAGERY	
00Z GOES IR Satellite Image, Pacific 06Z GOES IR Satellite Image, Pacific 12Z GOES IR Satellite Image, Pacific 18Z GOES IR Satellite Image, Pacific GOES IR Satellite Image, Pacific (MOST CURRENT)	evpn01.jpg evpn06.jpg evpn12.jpg evpn18.jpg evpn99.jpg
ICE CHARTS	
Sea Ice Analysis 5 Day Sea Ice Forecast Cook Inlet Sea Ice Analysis	PTCA89.TIF PTCO89.TIF PTCA87.TIF
OTHER PRODUCTS	
AK Coastal Forecast Tables	PLBZ00.TIF

SCHEDULE INFORMATION and MISCELLANEOUS

Radiofax Schedule Kodiak, AK;

Radiofax Schedule (DOS Text Version)

Test Pattern;

Radiofacsimile Symbols and Contractions

Internet File Names; (This file)

PLBZ05.TIF

rfaxak.txt

xxxxxx.xxx = Currently unavailable

Many of these charts also broadcast from Pt. Reyes, CA

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 Feb 08, 2007

Document URL: http://weather.noaa.gov/pub/fax/rfaxak.txt ftp://tgftp.nws.noaa.gov/fax/rfaxak.txt

NATIONAL WEATHER SERVICE RADIOFAX PRODUCTS for the Central, Southeast and North Pacific

NAVY Communications Station KVM-70 - Honolulu, Hawaii

Assigned frequencies 9982.5, 11090 and 16135 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://tqftp.nws.noaa.gov/fax or http://weather.noaa.gov/pub/fax

For information of how these files and other text and graphic marine forecasts may be downloaded via e-mail (FTPMAIL) see: http://weather.noaa.gov/pub/fax/ftpmail.txt

xxxxxx (Not yet available from these directories)

.TIF files now also available as .gif files

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PAY ATTENTION TO CAPITALIZATION:

Example using FTPMAIL:

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

Body:

open cd fax

get PJFD89.TIF
get PBFA11.gif

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

WIND/WAVE CHARTS - CENTRAL PACIFIC	FILE NAME
00Z Pacific Wind/Wave Analysis 30S-30N, 110W-130E	PJFB89.TIF
12Z Pacific Wind/Wave Analysis 30S-30N, 110W-130E	PJFD89.TIF
Pacific Wind/Wave Analysis (Most Current)	PJFB10.TIF
24HR Pacific Wind/Wave Forecast VT00Z 30S-30N, 110W-130E	PWFE82.TIF
24HR Pacific Wind/Wave Forecast VT12Z 30S-30N, 110W-130E	PWFE84.TIF
24HR Pacific Wind/Wave Forecast (Most Current)	PWFE11.TIF
48HR Pacific Wind/Wave Forecast VT00Z 30S-30N, 110W-130E	PJFI89.TIF
48HR Pacific Wind/Wave Forecast VT12Z 30S-30N, 110W-130E	PJFI91.TIF
48HR Pacific Wind/Wave Forecast (Most Current)	PJFI10.TIF

72HR Pacific Sea State Forecast VT00Z 30S-30N, 110W-130E	PJFK89.TIF
72HR Pacific Sea State Forecast VT12Z 30S-30N, 110W-130E	PJFK91.TIF
72HR Pacific Sea State Forecast (Most Current)	PJFK10.TIF
WIND/WAVE CHARTS - SE PACIFIC	
Tropical Sea State Analysis VT00Z 20S-30N, E of 145W	PKFA88.TIF
Tropical Sea State Analysis VT12Z 20S-30N, E of 145W	PKFA89.TIF
Tropical Sea State Analysis (Most Current)	PKFA10.TIF
24HR Wind/Wave Forecast VT00Z 20S-30N, E of 145W	PWFE01.TIF
24HR Wind/Wave Forecast VT06Z 20S-30N, E of 145W	PWFE02.TIF
24HR Wind/Wave Forecast VT12Z 20S-30N, E of 145W	PWFE03.TIF
24HR Wind/Wave Forecast VT18Z 20S-30N, E of 145W	PWFE04.TIF
24HR Wind/Wave Forecast (Most Current)	PWFE10.TIF
48HR Wind/Wave Forecast VT00Z 20S-30N, E of 145W 48HR Wind/Wave Forecast VT12Z 20S-30N, E of 145W	PWFI88.TIF
48HR Wind/Wave Forecast (Most Current)	PWFI90.TIF PWFI10.TIF
@48HR Wave Period/Swell Direction VT00Z 20S-30N, E of 145W	PJFI87.TIF
48HR Wave Period/Swell Direction VT12Z 20S-30N, E of 145W	PJFI88.TIF
48HR Wave Period/Swell Direction (Most Current)	PJFI11.TIF
72HR Wind/Wave Forecast VT00Z 20S-30N, E of 145W	PWFK92.TIF
72HR Wind/Wave Forecast VT12Z 20S-30N, E of 145W	PWFK93.TIF
72HR Wind/Wave Forecast (Most Current)	PWFK10.TIF
72HR Wave Period/Swell Direction VT00Z 20S-30N, E of 145W	PJFK93.TIF
WIND/WAVE CHARTS - NORTH PACIFIC	
WIND/WAVE CHARIS - NORTH PACIFIC	
00Z Sea State Analysis 20N-70N, 115W-135E	PJBA99.TIF
@00Z Wind/Wave Analysis 18N-62N, E OF 157W	PWBA88.TIF
@06Z Wind/Wave Analysis 18N-62N, E OF 157W	PWBB88.TIF
@12Z Wind/Wave Analysis 18N-62N, E OF 157W	PWBA89.TIF
@18Z Wind/Wave Analysis 18N-62N, E OF 157W	PWBD89.TIF
@ Wind/Wave Analysis 18N-62N, E OF 157W (Most Current)	
24HR Wind/Wave Forecast VT00Z 18N-62N, E OF 157W	PWBE98.TIF
24HR Wind/Wave Forecast VT12Z 18N-62N, E OF 157W	PWBE99.TIF
24HR Wind/Wave Forecast (Most Current) 48HR Wind/Wave Forecast VT00Z 20N-70N, 115W-135E	PWBE10.TIF 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 VT12Z 20N-70N, 115W-135E	PJBM98.TIF
96HR Wave Period/Swell Direction VT12Z 20N-70N, 115W-135E	PJBM88.TIF
SURFACE CHARTS - CENTRAL PACIFIC	
COLUMN CONTRACTOR CONT	
@00Z North Pacific Preliminary Analysis 20N-80N, 110W-110E	xxxxxx.TIF
@06Z North Pacific Preliminary Analysis 20N-80N, 110W-110E	xxxxxx.TIF
@12Z North Pacific Preliminary Analysis 20N-80N, 110W-110E	xxxxxx.TIF
@18Z North Pacific Preliminary Analysis 20N-80N, 110W-110E	xxxxxx.TIF
@ North Pacific Preliminary Analysis (Most Current)	PYPA00.TIF
00Z Pacific Surface Analysis EQ-50N, 110W-130E	PPBA88.TIF
06Z Pacific Surface Analysis EQ-50N, 110W-130E 12Z Pacific Surface Analysis EQ-50N, 110W-130E	PPBA89.TIF PPBA90.TIF
18Z Pacific Surface Analysis EQ-50N, 110W-130E	PPBA90.TIF
Pacific Surface Analysis (Most Current)	PPBA11.TIF
00Z Pacific Streamline Analysis 30S-30N, 110W-130E	PWFA90.TIF
06Z Pacific Streamline Analysis 30S-30N, 110W-130E	PWFA91.TIF
12Z Pacific Streamline Analysis 30S-30N, 110W-130E	PWFA92.TIF

```
18Z Pacific Streamline Analysis 30S-30N, 110W-130E
Pacific Streamline Analysis (Most Current)

@$00Z Tropical Surface Analysis 40S-40N, 100W-120E

@$06Z Tropical Surface Analysis 40S-40N, 100W-120E

Tropical Surface Analysis 40S-40N, 100W-120E
                                                                                                        PBFA99.TIF
PBFC99.TIF
 03Z Significant Cloud Features 30S-50N, 110W-160E
 15Z Significant Cloud Features 30S-50N, 110W-160E
                                                                                                                PBFA11.TIF
        Significant Cloud Features (Most Current)
 24HR Pacific Surface Forecast VT00Z 30S-50N 110W-130E PYFE87.TIF
 24HR Pacific Surface Forecast VT12Z 30S-50N 110W-130E
                                                                                                                PYFE88.TIF
 24HR Pacific Surface Forecast (Most Current)
                                                                                                                PYFE11.TIF
                                                                                                              QWFI99.TIF
QWFQ99.TIF
PYFI87.TIF
 @$24HR Wind/Stream Forecast VT00Z 30S-50N, 100W-120E
 @$48HR Wind/Stream Forecast VT00Z 30S-50N, 100W-120E
 48HR Pacific Surface Forecast VT00Z 30S-50N 110W-130E
48HR Pacific Surface Forecast VT12Z 30S-50N 110W-130E
                                                                                                                PYFI88.TIF
 48HR Pacific Surface Forecast (Most Current)
                                                                                                                PYFI11.TIF
 72HR Pacific Surface Forecast VT00Z 30S-50N 110W-130E
72HR Pacific Surface Forecast VT12Z 30S-50N 110W-130E
                                                                                                             PYFK87.TIF
PYFK88.TIF
                                                                                                                 PYFK11.TIF
 72HR Pacific Surface Forecast (Most Current)
```

\$ These charts will no longer be available sometime after June 20, 2006

SURFACE CHARTS - SE PACIFIC

00Z East Pacific Surface Analysis 20S-30N, E of 145W	PYFA96.TIF
<u> </u>	
06Z East Pacific Surface Analysis 20S-30N, E of 145W	PYFA97.TIF
12Z East Pacific Surface Analysis 20S-30N, E of 145W	PYFA98.TIF
18Z East Pacific Surface Analysis 20S-30N, E of 145W	PYFA99.TIF
East Pacific Surface Analysis Most Current	PYFA90.TIF
@00Z U.S./Tropical Surface Analysis 5S-50N,55W-125W	PYEB86.TIF
@06Z U.S./Tropical Surface Analysis 5S-50N,55W-125W	PYEB87.TIF
@12Z U.S./Tropical Surface Analysis 5S-50N,55W-125W	PYEB85.TIF
@18Z U.S./Tropical Surface Analysis 5S-50N,55W-125W	PYEB88.TIF
@ U.S./Tropical Surface Analysis 5S-50N,55W-125W	PYEB11.TIF
24HR Tropical Surface Forecast VT00 20S-30N, E of 145W	PYFE79.TIF
24HR Tropical Surface Forecast VT12 20S-30N, E of 145W	PYFE80.TIF
24HR Tropical Surface Forecast(Most Current)	PYFE10.TIF
48HR Tropical Surface Forecast VT00 20S-30N, E of 145W	PYFI81.TIF
48HR Tropical Surface Forecast VT12 20S-30N, E of 145W	PYFI82.TIF
48HR Tropical Surface Forecast(Most Current)	PYFI10.TIF
72HR Tropical Surface Forecast VT00 20S-30N, E of 145W	PYFK83.TIF
72HR Tropical Surface Forecast VT12 20S-30N, E of 145W	PYFK84.TIF
72HR Tropical Surface Forecast (Most Current)	PYFK10.TIF

SURFACE CHARTS - NORTH PACIFIC

```
OUZ Surface Analysis NE Pacific (Part 1) 20N-70W, 115W-175W PYBA01.TIF

OUZ Surface Analysis NW Pacific (Part 2) 20N-70W, 175W-135E PYBA02.TIF

OEZ Surface Analysis NE Pacific (Part 1) 20N-70W, 115W-175W PYBA03.TIF

OEZ 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 PYBA06.TIF

18Z Surface Analysis NW Pacific (Part 1) 20N-70W, 175W-135E PYBA06.TIF

Surface Analysis, NW Pacific (Part 2) 20N-70W, 175W-135E PYBA08.TIF

Surface Analysis, Part 1 (Most Current) PYBA90.TIF

Surface Analysis, Part 2 (Most Current)

©24HR Surface Forecast VT00Z 18N-62W, E of 157W PPBE00.TIF

©24HR Surface Forecast VT12Z 18N-62W, E of 157W PPBE01.TIF
```

@24HR Surface Forecast (Most Current) 48HR Surface Forecast VT00Z 20N-70W, 115W-135E 48HR Surface Forecast VT12Z 20N-70W, 115W-135E 48HR Surface Forecast (Most Current) 96HR Surface Forecast VT12Z 20N-70W, 115W-135E	PPBE10.TIF PWBI98.TIF PWBI99.TIF PWBI10.TIF PWBM99.TIF
TROPICAL CYCLONE CHARTS - PACIFIC	
72 HR Tropical Cyclone Danger Area VT 03Z 0N-40N, 80W-170E 72 HR Tropical Cyclone Danger Area VT 09Z 0N-40N, 80W-170E 72 HR Tropical Cyclone Danger Area VT 15Z 0N-40N, 80W-170E 72 HR Tropical Cyclone Danger Area VT 21Z 0N-40N, 80W-170E 72 HR Tropical Cyclone Danger Area (Most Current)	PWFK03.TIF PWFK09.TIF PWFK15.TIF PWFK21.TIF PWFK12.TIF
SEA SURFACE TEMPERATURE CHARTS	
Pacific SST Chart 55N-EQ, 110W-160E	PTFA88.TIF
SATELLITE IMAGERY (IR) 00Z Eastern Pacific Satellite Image 05S-55N, 110W-155E	evpz00.jpg
06Z Eastern Pacific Satellite Image 05S-55N, 110W-155E 12Z Eastern Pacific Satellite Image 05S-55N, 110W-155E 18Z Eastern Pacific Satellite Image 05S-55N, 110W-155E 18Z Eastern Pacific Satellite Image 05S-55N, 110W-155E Eastern Pacific Satellite Image (Most Current) 00Z Southwest Pacific Satellite Image 40S-05N, 130W-165E 06Z Southwest Pacific Satellite Image 40S-05N, 130W-165E 12Z Southwest Pacific Satellite Image 40S-05N, 130W-165E 18Z Southwest Pacific Satellite Image 40S-05N, 130W-165E Southwest Pacific Satellite Image (Most Current) @00Z Tropical East Pacific Satellite Image 20S-40N,E of 145W 06Z Tropical East Pacific Satellite Image 20S-40N,E of 145W @12Z Tropical East Pacific Satellite Image 20S-40N,E of 145W Tropical East Pacific Satellite Image 20S-40N,E of 145W Tropical East Pacific Satellite Image (MOST CURRENT) @00Z Pacific Satellite Image 05N-55N, E of 180W 06Z Pacific Satellite Image 05N-55N, E of 180W @12Z Pacific Satellite Image 05N-55N, E of 180W Pacific Satellite Image 05N-55N, E of 180W Pacific Satellite Image 05N-55N, E of 180W	evpz00.jpg evpz06.jpg evpz12.jpg evpz11.jpg evps00.jpg evps06.jpg evps12.jpg evps12.jpg evps12.jpg evpn02.jpg evpn04.jpg evpn04.jpg evpn04.jpg evpn01.jpg evpn06.jpg evpn06.jpg evpn06.jpg
SCHEDULE INFORMATION	
Radiofax Schedule (Honolulu, HI) Part I Radiofax Schedule (Honolulu, HI) Part II Radiofax Schedule (DOS Text Version) Test/Map Symbols/General Notice Internet File Names (This file)	PLBZ07.TIF PLBZ09.TIF hfhi.txt PLBZ08.TIF rfaxhi.txt
@ Not transmitted via Honolulu radiofax but listed here for c	onvenience
Many of these charts also Broadcast via Pt. Reyes, CA and Kod	iak, AK

Further information see: http://www.nws.noaa.gov/om/marine/home.htm Author: Timothy Rulon, Marine and Coastal Weather Services Branch W/OS21

National Weather Service Last Modified Feb 20, 2007

Document URL: http://weather.noaa.gov/pub/fax/rfaxhi.txt ftp://tgftp.nws.noaa.gov/fax/rfaxhi.txt

NATIONAL WEATHER SERVICE MARINE TEXT PRODUCTS HIGHSEAS, FORECAST DISCUSSION, 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://tgftp.nws.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

FORECAST DISCUSSION

These files may be found in directory: ftp://tgftp.nws.noaa.gov/data/raw/ag/

Example:

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

Body: open

cd data
cd raw
cd ag

get agnt40.kwnm.mim.atn.txt

quit

PRODUCT DESCRIPTION

FILE NAME

Northwest Atlantic agnt40.kwnm.mim.atn.txt
Northeast Pacific agpn40.kwnm.mim.pac.txt
Gulf, Caribbean Sea & SW N. Atlantic agxx40.knhc.mim.ats.txt

Note...these Forecast Discussions are primarily intended for use by forecasters and make heavy use of abbreviations. A glossary is not available.

OFFSHORE FORECASTS

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

These files may be found in directory: ftp://tgftp.nws.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 fznt21.kwbc.off.nt1.txt

quit

PRODUCT DESCRIPTION

FILE NAME

New England Mid-Atlantic	<pre>fznt21.kwbc.off.nt1.txt fznt22.kwbc.off.nt2.txt</pre>
SW North Atlantic, Caribbean	fznt23.knhc.off.nt3.txt
Gulf of Mexico	fznt24.knhc.off.nt4.txt
Washington, Oregon	fzpn25.kwbc.off.pz5.txt
California	fzpn26.kwbc.off.pz6.txt
Eastern Gulf of Alaska	fzak67.pajk.off.ajk.txt
Western Gulf of Alaska	<pre>fzak61.pafc.off.aer.txt</pre>
Bering Sea	<pre>fzak62.pafc.off.alu.txt</pre>
Hawaii	<pre>fzhw60.phfo.off.hfo.txt</pre>

NAVTEX FORECASTS

These files may be found in directory: ftp://tgftp.nws.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 fznt23.kwnm.off.n01.txt

quit

PRODUCT DESCRIPTION

FILE NAME

NAVTEX Boston, MA

fznt23.kwnm.off.n01.txt

fznt24.kwnm.off.n02.txt NAVTEX Chesapeake, VA NAVTEX Savannah, GA fznt25.kwnm.off.n03.txt fznt25.knhc.off.n04.txt NAVTEX Miami, FL fznt26.knhc.off.n05.txt NAVTEX San Juan, PR 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 NAVTEX Honolulu, HI fzhw61.phfo.off.n10.txt NAVTEX Kodiak, (SE) AK fzak61.pajk.off.n11.txt NAVTEX Kodiak, (N Gulf) AK fzak63.pafc.off.n12.txt NAVTEX Kodiak, (W) AK fzak64.pafc.off.n13.txt NAVTEX Kodiak, (NW and Artic) AK fzak69.pafg.off.n14.txt

OPEN LAKE FORECASTS

These files may be found in directory: ftp://tgftp.nws.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

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

Author: Timothy Rulon, Office of Marine and Coastal Services W/OS21,

National Weather Service Last Modified Jan 30, 2007

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

ftp://tgftp.nws.noaa.gov/fax/marine1.txt

NATIONAL WEATHER SERVICE MARINE TEXT PRODUCTS HURRICANE 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 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://tgftp.nws.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 Update (Storm #1)
                                          /storm_1/update.txt
Tropical Cyclone Update (Storm #2)
                                          /storm_2/update.txt
Tropical Cyclone Update (Storm #3)
                                          /storm 3/update.txt
Tropical Cyclone Update (Storm #4)
                                          /storm_4/update.txt
Tropical Cyclone Update (Storm #5)
                                          /storm_5/update.txt
Tropical Cyclone Discussion (Storm #1)
                                          /storm_1/discussion.txt
Tropical Cyclone Discussion (Storm #2)
                                          /storm 2/discussion.txt
                                          /storm_3/discussion.txt
Tropical Cyclone Discussion (Storm #3)
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://tgftp.nws.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 Update (Storm #1)
                                           /storm_1/update.txt
Tropical Cyclone Update (Storm #2)
                                           /storm_2/update.txt
Tropical Cyclone Update (Storm #3)
                                           /storm_3/update.txt
Tropical Cyclone Update (Storm #4)
Tropical Cyclone Update (Storm #5)
                                           /storm_4/update.txt
                                           /storm_5/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
                                           /storm_2/advisory.txt
Public Advisory (Storm #2)
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://tgftp.nws.noaa.gov/data/hurricane_products/central_pacific

PRODUCT DESCRIPTION

FILE NAME

Tropical WX Outlook /weather/outlook.txt
Tropical WX Discussion (discontinued)

```
Tropical WX Summary
                                          /weather/summary.txt
Tropical WX Disturbance Stmt
                                          /weather/advisory.txt
Tropical Cyclone Update (Storm #1)
                                          /storm_1/update.txt
                                          /storm_2/update.txt
Tropical Cyclone Update (Storm #2)
Tropical Cyclone Update (Storm #3)
                                          /storm 3/update.txt
Tropical Cyclone Update (Storm #4)
                                          /storm_4/update.txt
Tropical Cyclone Update (Storm #5)
                                          /storm_5/update.txt
Tropical Cyclone Discussion (Storm #1)
                                          /storm_1/discussion.txt
Tropical Cyclone Discussion (Storm #2)
                                          /storm_2/discussion.txt
                                          /storm_3/discussion.txt
Tropical Cyclone Discussion (Storm #3)
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
```

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.

WESTERN PACIFIC HURRICANE PRODUCTS

These files may be found in directory: http://tgftp.nws.noaa.gov/pub/data/raw/wt

Example:

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

dy: open cd data cd raw cd wt

get wtpq31.pgum.tcp.pq1.txt

quit

PRODUCT DESCRIPTION

FILE NAME

```
Public Advisory (Storm #1) /wtpq31.pgum.tcp.pq1.txt
Public Advisory (Storm #2) /wtpq32.pgum.tcp.pq2.txt
Public Advisory (Storm #3) /wtpq33.pgum.tcp.pq3.txt
Public Advisory (Storm #4) /wtpq34.pgum.tcp.pq4.txt
Public Advisory (Storm #5) /wtpq35.pgum.tcp.pq5.txt
```

These products may only contain information on cyclones with potential landfalls in U.S. areas. See NAVY products below for additional information..

WESTERN PACIFIC HURRICANE PRODUCTS (NAVY)

These files may be found in directory: http://tgftp.nws.noaa.gov/pub/data/raw/wt

Example:

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

Body:

open
cd data
cd raw
cd wt

get wtpn21.pgtw..txt

quit

PRODUCT DESCRIPTION

FILE NAME

```
NW Pacific Tropical Cyclone Formation Alert Storm #1
                                                      /wtpn21.pgtw..txt
NW Pacific Tropical Cyclone Formation Alert Storm #2
                                                      /wtpn22.pgtw..txt
NW Pacific Tropical Cyclone Formation Alert Storm #2
                                                      /wtpn23.pgtw..txt
NW Pacific Tropical Cyclone Formation Alert Storm #4
                                                      /wtpn24.pgtw..txt
NW Pacific Tropical Cyclone Formation Alert Storm #5
                                                      /wtpn25.pgtw..txt
SW Pacific Tropical Cyclone Formation Alert Storm #1
                                                      /wtps21.pgtw..txt
SW Pacific Tropical Cyclone Formation Alert Storm #2
                                                      /wtps22.pgtw..txt
SW Pacific Tropical Cyclone Formation Alert Storm #3
                                                      /wtps23.pgtw..txt
SW Pacific Tropical Cyclone Formation Alert Storm #4
                                                      /wtps24.pgtw..txt
SW Pacific Trocical Cyclone Formation Alert Storm #5
                                                      /wtps25.pgtw..txt
NW Pacific Tropical Cyclone Warning Storm #1
                                                      /wtpn31.pgtw..txt
NW Pacific Tropical Cyclone Warning Storm #2
                                                      /wtpn32.pgtw..txt
NW Pacific Tropical Cyclone Warning Storm #3
                                                      /wtpn33.pgtw..txt
NW Pacific Tropical Cyclone Warning Storm #4
                                                      /wtpn34.pqtw..txt
NW Pacific Tropical Cyclone Warning Storm #5
                                                      /wtpn35.pqtw..txt
SW Pacific Tropical Cyclone Warning Storm #1
                                                      /wtpS31.pgtw..txt
SW Pacific Tropical Cyclone Warning Storm #2
                                                      /wtpS32.pgtw..txt
SW Pacific Tropical Cyclone Warning Storm #3
                                                      /wtpS33.pgtw..txt
SW Pacific Tropical Cyclone Warning Storm #4
                                                      /wtpS34.pgtw..txt
SW Pacific Tropical Cyclone Warning Storm #5
                                                      /wtpS35.pgtw..txt
```

Author: Timothy Rulon

Marine and Coastal Services Branch, OS21

National Weather Service

Last Modified Friday Jan 30, 2007

Document URL: http://weather.noaa.gov/pub/fax/marine2.txt ftp://tqftp.nws.noaa.gov/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
cd data
cd raw
cd fz

get fzus56.kmtr.cwf.mtr.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://tgftp.nws.noaa.gov/data/raw/fz

PRODUCT DESCRIPTION

FILE NAME

Caribou, ME	<pre>fzus51.kcar.cwf.car.txt</pre>
Gray, ME	fzus51.kgyx.cwf.gyx.txt
Taunton, MA	fzus51.kbox.cwf.box.txt
New York, NY	fzus51.kokx.cwf.okx.txt
Philadelphia, PA	fzus51.kphi.cwf.phi.txt
Washington, DC	fzus51.klwx.cwf.lwx.txt
Wakefield, VA	fzus51.kakq.cwf.akq.txt
Newport/Morehead City, NC	fzus52.kmhx.cwf.mhx.txt
Wilmington, NC	fzus52.kilm.cwf.ilm.txt
Charleston, SC	fzus52.kchs.cwf.chs.txt
Jacksonville, FL	fzus52.kjax.cwf.jax.txt
Melbourne, FL	fzus52.kmlb.cwf.mlb.txt
Miami, FL	fzus52.kmfl.cwf.mfl.txt
Key West, FL	fzus52.kkey.cwf.key.txt
San Juan, PR	fzca52.tjsj.cwf.sju.txt
San Juan, PR (Spanish)	<pre>fzca52.tjsj.cwf.spn.txt</pre>
Tampa, FL	fzus52.ktbw.cwf.tbw.txt
Tallahasee, FL	fzus52.ktae.cwf.tae.txt
Mobile, AL	fzus54.kmob.cwf.mob.txt
New Orleans, LA	fzus54.klix.cwf.lix.txt
Lake Charles, LA	fzus54.klch.cwf.lch.txt
Houston/Galveston, TX	fzus54.khgx.cwf.hgx.txt
Corpus Christi, TX	fzus54.kcrp.cwf.crp.txt
Brownsville, TX	fzus54.kbro.cwf.bro.txt
Seattle, WA	fzus56.ksew.cwf.sew.txt
Portland, OR	fzus56.kpqr.cwf.pqr.txt
Medford, OR	fzus56.kmfr.cwf.mfr.txt
Eureka, CA	fzus56.keka.cwf.eka.txt

San Francisco, CA fzus56.kmtr.cwf.mtr.txt fzus56.klox.cwf.lox.txt Los Angeles, CA San Diego, CA fzus56.ksgx.cwf.sgx.txt Hawaii fzhw50.phfo.cwf.hfo.txt Hawaii (Generalized) fzhw51.phfo.cwf.hi1.txt fzmy50.pgum.cwf.my.txt Marianas (Guam) East Micronesia fzpq51.pgum.cwf.pq1.txt West Micronesia fzpq52.pgum.cwf.pq2.txt fzzs50.nstu.cwf.ppg.txt Samoa Buffalo,NY fzus51.kbuf.nsh.buf.txt Cleveland, OH fzus51.kcle.nsh.cle.txt Detroit/Pontiac,MI fzus53.kdtx.nsh.dtx.txt Gaylord, MI fzus53.kapx.nsh.apx.txt Grand Rapids, MI fzus53.kgrr.nsh.grr.txt Northern Indiana, IN fzus53.kiwx.nsh.ixw.txt fzus53.klot.nsh.lot.txt Chicago, IL Milwaukee/Sullivan,WI fzus53.kmkx.nsh.mkx.txt fzus53.kgrb.nsh.grb.txt Green Bay, WI Marquette, MI fzus53.kmqt.nsh.mqt.txt Duluth, MN fzus53.kdlh.nsh.dlh.txt AK, SE Inner Coastal Waters fzak51.pajk.cwf.ajk.txt AK, SE Outside Coastal Waters fzak52.pajk.cwf.aeg.txt AK, Yakutat Bay fzak57.paya.cwf.yak.txt AK, North Gulf Coast and Kodiak fzak51.pafc.cwf.aer.txt AK, Valdez Arm and Narrows fzak58.pavw.cwf.vws.txt AK, Chiniak and Marmot Bays fzak58.padq.cwf.adq.txt Southwest AK and the Aleutians fzak52.pafc.cwf.alu.txt Western AK fzak52.pafg.cwf.wcz.txt Arctic Coast fzak51.pafg.cwf.nsb.txt Sea Ice Advisory West & Arctic AK fzak80.pafc.ice.afc.txt

Author: Timothy Rulon, Marine and Coastal Weather Services Branch (W/OS21)

National Weather Service Last Modified Jan 30, 2007

Document URL: http://weather.noaa.gov/pub/fax/marine3.txt

ftp://tgftp.nws.noaa.gov/fax/marine3.txt

National Weather Service (and other) marine forecasts are available via a variety of Government, University, Commercial and Public/Freeware systems intended to make information accessible to users such as mariners who may have an e-mail capability but do not have direct Internet access. The following is a listing of several known automated systems.

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

This document (http://weather.noaa.gov/pub/fax/robots.txt) may be retrieved via e-mail as follows:

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

Body: open cd fax

get robots.txt

quit

FTPMAIL

National Weather Service marine text forecasts and radiofax charts are available via e-mail via an FTPMAIL server. Further, FTPMAIL may be used to acquire any file on the tgftp.nws.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 less than 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 (11 KBytes), or see https://weather.noaa.gov/pub/fax/ftpmail.txt

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

Body: help

Not all NWS forecast products are available via FTP and therefore accessible via FTPMAIL such as worldwide computer generated model forecasts which include areas beyond the area of U.S. forecasting responsibility such as the Indian Ocean and South Atlantic.

To retrieve Wave Watch III (http://polar.ncep.noaa.gov/waves/main_table.html) and other forecasts via e-mail, use one of the www-to-email systems such as SAILDOCS or OTHERS described below. Be aware computer generated products from forecast models are not reviewed by forecasters and are therefore subject to error. E.G. per the Wave Watch III webpage:

URLs = http://polar.ncep.noaa.gov/waves/latest_run/xxxx.yyyyzzzz

where xxxx =

"nww3_at" Atlantic

"nww3_na" North Atlantic

"wna" Western North Atlantic

"wna_ecg" WNA US coastal zoom

"nah" North Atlantic Hurricane

"nah ecg" NAH US coastal zoom

```
"nww3_in" Indian Ocean
"nww3_pa" Pacific
"nww3_np" North Pacific
      Eastern North Pacific
"enp"
"enp haw" ENP Hawaii zoom
"enp wc" ENP west coast zoom
"nph" North Pacific Hurricane
"nph_haw" NPH Hawaii zoom
"nph_wc" NPH west coast zoom
"akw" Alaskan Waters
where "yyyy" = "h006" or "h000" for -6 or zero hour hindcasts
where "yyyy" = "f006" to "f180" (multiples of 6 hours) for forecasts
where "zzzz" =
"h.gif" Wave Height Forecast
"h.2.gif" Wave Period and Direction Forecast
"h.3.gif" Wind Speed and Direction Forecast
e.g. 24hr Wind Speed and Direction Forecast for North Atlantic =
http://polar.ncep.noaa.gov/waves/latest_run/nww3_na.f024h.3.gif
(See SAILDOCS or OTHERS described below to retrieve via e-mail,
file size \sim = 30k Bytes )
And similarly, to retrive sea surface temperature and surface
current forecasts from NOAA's for Real-Time Ocean Forecast System (Atlantic):
URLs = http://polar.ncep.noaa.gov/ofs/aofs_images/aofs_zzz_yyyy_xxxx.png
where xxxx =
"natl" North Atlantic
"wnatl" Western North Atlantic
"wnatlzoom" Western North Atlantic zoom
"hurr"
            Gulf of Mexico
where yyyy =
"nowcast", "f024", "f048", "f072", "f096" or "f120"
where "zzz" =
"sst" Sea Surface Temperature (°C)
"cur"
          Surface Current (magnitude m/sec)
National Hurricane Center Listserver
The National Weather Service's 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. To get started in using the National
Hurricane Center Listserver, follow these simple directions for more
information, or see: http://www.nhc.noaa.gov/signup.shtml
Send an e-mail to: ftpmail@weather.noaa.gov
Subject line:
                    Put anything you like
Body:
                    open
```

cd fax

quit

get nhclist.txt

University of Illinois Listserver

The University of Illinois at Urbana-Champaign 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 NWS hurricane (and some marine) forecast products via e-mail. However, performance may vary and receipt cannot be guaranteed. To get started in using the University of Illinois Listserver, follow these simple directions to obtain further information, or see: http://www.lsoft.se/scripts/wl.exe?XH=LISTSERV.UIUC.EDU

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

Body: open cd fax

get uiuclist.txt

quit

Hurricane Watch Net YahooGroup Listserver

The Amateur Radio "HAM" Hurricane Watch Net manages two YahooGroup Lists, HWN, and hwn_epac, which 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. Due to a system limitation, duplicate e-mails are likely. To get started in using the HWN/hwn_epac YahooGroup Listserver, follow these simple directions to obtain further information, or see: http://www.hwn.org/, http://groups.yahoo.com/group/HWN and http://groups.yahoo.com/group/hwn_epac

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

Body: open

cd fax
get hwnlist.txt

quit

SAILDOCS

SAILDOCS is an email-based document-retrieval system which currently offers two services: a document retrieval service which will return documents from the Internet or SAILDOCS own files, and a subscription service which will send Internet documents (for example weather reports) at scheduled intervals. SAILDOCS files include National Weather Service text forecasts and gridded binary (GRIB files) for wind, pressure, 500mb, and sea surface temperature. SAILDOCS is supported in part by Sailmail (www.sailmail.com) but is an independent service that can be used by anyone who agrees to the terms and conditions. To get started in using SAILDOCS, follow these simple directions to obtain further information, or see: http://www.saildocs.com/

Send an e-mail to: info@saildocs.com
Subject line: Put anything you like
Body: Put anything you like

NAVIMAIL

Météo-France's NAVIMAIL system enables you to receive gridded binary (GRIB files) for wind, pressure, waves, sea surface temperature, as well as text bulletins and satellite images. There is a service charge for GRIB data, however, text bulletins and satellite images are available at no charge. To get started in using NAVIMAIL, follow these simple directions to obtain further information, or see: http://www.meteo.fr/marine/navimail

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

Body: open cd fax

get navimail.txt

quit

U.S. NOTICES TO MARINERS BY E-MAIL

The National Geospatial-Intelligence Agency (NGA) provides a service whereby the U.S Notices to Mariners are e-mailed to the requesting address every weekend, with the following limitations:

- * The notice transmitted is listed on the Maritime Safety Information (MSI) Website in the "Notice to Mariners" section as "Entire NtM". Graphics provided in this version are inadequate for navigation purposes. Navigation-quality chartlets are available for download on the MSI website as needed.
- * Many networks and e-mail applications have restrictions on file sizes for e-mail attachments. In order to ensure all notices are received, the limit on file sizes for the receiving account should be changed to 2.5 Mb. Contact your system administrator or help desk for more assistance.
- * In order to subscribe, the customer must be logged into the e-mail account to which they wish the notice sent. When the hyperlink below is selected, an e-mail window is generated with the "To" and "From" addresses filled out. The "Subject" and "Body" will be blank. Selecting "Send" subscribes the user to the e-mailed Notice to Mariners. * Instructions to unsubscribe from the notice are included in each Notice to Mariners e-mail.

Privacy Act Advisory

Your e-mail address will be used for the purpose of electronically mailing the U.S. Notice to Mariners to you. Upon receipt of your subscription, your identification as the sender will be stripped from your e-mail and only the destination e-mail address you provide will be automatically added to the subscription list. Subscriptions will be processed automatically. If you unsubscribe, your e-mail address will be purged from the file and will not be retained. NGA may collect statistical data about the number of subscribers, number of subscription cancellations, and the number of delivery failures.

To subscribe to U.S. Notices to Mariners by E-mail:

Send an e-mail to: join-ntm@goldweb.nga.mil

Subject line: Leave blank Body: Leave blank

U.S. COAST GUARD LOCAL NOTICES TO MARINERS (LNM) LISTSERVER LNM's and other maritime related information are available via a one-way listserver at: http://www.navcen.uscg.gov/lnm/listserver.htm

NANUS & GPS STATUS MSGS BY EMAIL

Users with an urgent need to be notified of changes to the GPS Constellation may subscribe to the Navigation Center NANU List Server (http://cgls.uscg.mil/mailman/listinfo/nanu) and/or the GPS Status Message List Server (http://cgls.uscg.mil/mailman/listinfo/gps). These services provide emails containing the NANU and/or GPS Status Messages, generally within 60 minutes of notification by the Air Force of a change to the GPS Constellation. This is a free service. PRIVACY INFORMATION: Disclosure of your email address is voluntary. It is solicited for the sole purpose of delivering the requested information to you and will not be released to any other party.

OTHERS

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

http://www.fags.org/fags/internet-services/access-via-email/

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

Author: Timothy Rulon timothy.rulon@noaa.gov

Marine and Coastal Weather Services Branch W/OS21

National Weather Service Last Modified Feb 08, 2007

Document URL: http://weather.noaa.gov/pub/fax/robots.txt ftp://weather.noaa.gov/fax/robots.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/XP 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:

Ben Strong 1-212-668-7762 1-212-668-7684 (FAX)

e-mail: bmstrong@batteryny.uscg.mil

or visit the SEAS website at:

http://seas.amverseas.noaa.gov/seas/

MAROB

An Experimental Voluntary Marine Observation Program

All Information with Respect to the MAROB Program Are Preliminary and Subject to Revision

The MAROB Program is an experimental voluntary marine observation program of the National Weather Service in the early stages of development. It seeks the participation of all mariners, both commercial and recreational, which are not part of the more in-depth VOS program. It is the goal of the program to collect as many marine observations as practicable, to improve the accuracy of coastal, offshore and high seas forecasts, by taking advantage of technological advancements in marine communications and the proliferation of the Internet.

MAROB observations will be in coded form which can be better ingested, distributed and displayed by forecasters than observations in plain language. The MAROB report format will be identical to VOS coded reports, with the exception that "MAROB" will replace "BBXX". The MAROB program will differ from the VOS Program in at least several other aspects: Although MAROBs will be used by forecasters in forecast decision process, these data will likely not be used directly by computer models; Any communications charges and the cost of any observing equipment will not be reimbursed by the Weather Service; The observation elements collected will typically be a subset of those collected in the full VOS report.

The National Weather Service is in the process of developing cooperative arrangements with organizations such as the United States Power Squadrons, the Coast Guard Auxiliary, the WinLink 2000 Global Radio Network, the Maritime Mobile Service Network, CruiseEmail.com, Ocens, Sailmail, SkyMate, MarineNet Wireless, and the YOTREP Reporting System, to both train observers and forward observations to NWS. Technologies utilized may include cellular telephone, HF Marine radio, MF Marine radio, VHF Marine Radio, Webforms and e-mail.

In several cases, MAROB reporting schemes will work in conjunction with vessel position reporting systems such as WinLink's Position Reporter, the Maritime Mobile Service Network's ShipTrak, and the YOTREPs Reporter, to enhance the safety of mariners.

At present, mariners may participate in the MAROB program in any of several ways.

For information on the MAROB Program see:

http://www.nws.noaa.gov/om/marine/marob.htm

Or contact:: timothy.rulon@noaa.gov 1-301-713-1677 x 128

For information on other marine observation programs of the National Weather Service see:

http://www.nws.noaa.gov/om/marine/voluntary.htm

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.

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.

Location	<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

NOAA PUBLICATIONS

Mariner's Weather Log Magazine - \$13.00/2 issues/yr (§18.20 foreign)³

Selected Marine Worldwide Weather Broadcasts (9/92)⁵

Voluntary Observing Ship Program Brochure (1999) Free⁶

NWS Observing Handbook NO.1 (7/04) Free ⁶

Marine Report User Guide

Worldwide Marine Radiofacsimile Broadcast Schedules (05/06) Free⁴

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 - Great Lakes (NOAA/PA 98053) Free²

A Mariners Guide to Marine Weather Services - Coastal, Offshore, and High Seas (NOAA/PA 98054) Free²

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

National Ocean Service Coast Pilot, Volumes 1-91

Directory of Private Weather Services - Free¹⁰

Lightning & Boats (NOAA/Sea Grant NCU-G-95-004)

Mariners Guide for Hurricane Awareness in the North Atlantic Basin (large file 2.3 MB PDF format)

NGA PUBLICATIONS

NGA Publication 117 "Radio Navigational Aids" (2005)...Includes CD ¹³

American Practical Navigator (Bowdich) Publication 9 (2002) - 13

Pilot Chart Atlas, 5 areas 13

Sailing Directions, 42 volumes¹³

U.S. Notices to Mariners¹⁴

U.S. Notices to Mariners #1, Special Notice to Mariners Paragraphs 14

U.S. COAST GUARD PUBLICATIONS

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

NAVY PUBLICATIONS

U.S. NAVY Hurricane Havens/Heavy Weather Handbooks (http://www.nrlmry.navy.mil/pubs.htm) Free

Non-U.S. GOVERNMENT PUBLICATIONS

Canadian Coast Guard Radio Aids to Navigation - \$18.95 Cdn The British Admiralty List of Radio Signals⁸

Volume 1 Coast Radio Stations (2 parts)

Volume 2 Radio Navigational Aids, Satellite Navigation Systems, Legal Time,

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NOAA WEATHER RADIO NETWORK

- (1) 162.550 mHz
- (2) 162.400 mHz
- (3) 162.475 mHz
- (4) 162.425 mHz
- (5) 162.450 mHz
- (6) 162.500 mHz
- (7) 162.525 mHz

Channel numbers, e.g. (WX1, WX2) etc. have no special significance but are often designated this way in consumer equipment. Other channel numbering schemes are also prevalent.

The NOAA Weather Radio network provides voice broadcasts of local and coastal marine forecasts on a continuous cycle. The forecasts are produced by local National Weather Service Forecast Offices. Coastal stations also broadcast predicted tides and real time observations from buoys and coastal meteorological stations operated by NOAA's National Data Buoy Center. Based on user demand, and where feasible, Offshore and Open Lake forecasts are broadcast as well.

The NOAA Weather Radio network provides near continuous coverage of the coastal U.S, Great Lakes, Hawaii, and populated Alaska coastline. Typical coverage is 25 nautical miles offshore, but may extend much further in certain areas.