WORLDWIDE MARINE RADIOFACSIMILE BROADCAST SCHEDULES

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

NATIONAL WEATHER SERVICE

Feb 24, 2009

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
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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

CAPE NAVAL, SOUTH AFRICA

CALL ZSJ ZSJ ZSJ ZSJ	. SIGNS	FREQUE 4014 7508 13538 18238	ENCIES kHz kHz kHz kHz	TIMES 16Z-06Z (wh ALL BROAD ALL BROAD 06Z-16Z (wh	CAST TIME CAST TIME	≣Ŝ ≣S	EMISSION F3C F3C F3C F3C	PC 10 10 10 10	KW KW
TIME	CONT	ENTS OF TI	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 (I HER BULLE NALYSIS(SI ROG NALYSIS(SI HER BULLE	OCT-MAR) ETINS FOR CO HIPPING) HIPPING) ETINS FOR CO	DASTAL WATER 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
	REAS: 1:20,000 Lan 1:20,000 Mer 1:20,000 Mer 30E to 30W A	cator cator	00S20W 05S15W 05S15W est to edge of i	00S70E 05S60E 05S60E ce pack except N	60S50W 60S15W 60S15W NC West	60S90 60S60 60S60	ŌΕ		

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

ASIA

BEIJING (PEKING), CHINA

CALL SIGNS BAF6 BAF36 BAF4 BAF8 BAF9 BAF33	FREQUENCIE 5526.9 kHz 8121.9 kHz 10116.9 kHz 14366.9 kHz 16025.9 kHz 18236.9 kHz	S TIMES		EMISSION F3C F3C F3C F3C F3C F3C	6-8 6-8 10 15 ??	OWER KW KW KW KW KW KW
TIME CON	TENTS OF TRANSM	MISSION		RPM/IOC	VALID TIME	MAP AREA
0132 36HR/48HF 0154 TYPHOON 0216 36HR MINII 48HR MAXI 0238 24HR/48HF 60HR MINII 0300 SATELLITE 0406 500MB PLC 0428 48HR SURI 0450 SURFACE 0724 SATELLITE 0746 TYPHOON 0830 SURFACE 0852 24HR PREC 1126 TYPHOON 1148 TEST CHAI 1158 PROGRAM 1340 TYPHOON 1904 500MB PLC 1926 SURFACE 1948 TYPHOON 1948 TYPHOON 2134 24 HR SUR 2218 36HR/48HF	SURFACE PROG WARNING (IN ENGL MUM TEMP PROG(1 MUM TEMP PROG(2 PRECIPITATION PI MUM TEMP PROG (1 PICTURE ANALYSI PICTURE ANALYSI WARNING (IN ENGL PRESSURE ANALYSI WARNING (IN ENGL PRESSURE ANALYSI WARNING (IN ENGL WARNING (IN ENGL WARNING (IN ENGL PRESSURE ANALYSI	1 MAY-30 SEP) PROG (1 MAY-30 SEP) 1 OCT-30 APR) IS (1 MAY-30 SEP) IS (1 MAY-30 SEP) LISH & CHINESE)(1) SIS LISH AND CHINESE)(1)	120/576 120/576	1200 1200 0000 0000 0000 1800 0000 0600 0000 1200 1200 1200 1200 12	EA EEEE EFH CJD EG ALD
NOTES: (1) (4)	IN CASE OF TYP ON MONDAYS	PHOON				
MAP AREAS: A1 - C - D - E - F - G - H - I - J -	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	NORTHERN HEMISPH 70S 040E, 70S 50N 105E, 50N 10N 085E, 10N 05S 033E, 04S 06N 085E, 03N 04S 070E, 02S 15N 075E, 15N 43N 108E, 43N	HERE 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 TRANSMISSION	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	SURFACE ANALYSIS SEA SURFACE WATER TEMPERATURE (2) THE FIRST RETRANSMISSION OF 0240/1440 BROADCAST SCHEDULE, MANUAL AMENDMENTS RETRANSMISSION OF 0150/1350 (1)	120/576 120/576 120/576 120/576 120/576	00/12	C'
/1620 0421/ 0440/ 0459/1640 0518/1700 /1719 0537/1739	RETRANSMISSION OF 0300 (2) 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	120/576 120/576 120/576 120/576 120/576 120/576 120/576	0000 0000 00/12 00/12 1200 00/12	C" X C C X
0548/ 0610/1750 0630//1810 /1821	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' C
/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)	IN CASE OF TROPICAL CYCLONE EVERY TUESDAY AND FRIDAY ON THE 20TH AND 21ST.			

(4) (5) EVERY TUESDAY AND FRIDAY (SEASONAL) RETRANSMISSION: AT 0130 ON THE NEXT DAY

EVERY WEDNESDAY AND SATURDAY (SEASONAL). RETRANSMISSION: AT 0130 ON THE NEXT DAY

A. For the purpose of maintaining the JMH broadcasting system, the test chart will be transmitted during the period from 01:55 to 02:35 UTC on 3, 4, 6, 10 and 11 Dec 2008 as well as 4 and 5 Feb 2009.

B. If WTAS07 is broadcast, each test will be cancelled. If additional tests are necessary, the notification will be distributed as MANAM in advance.

MAP AREAS: C - 1:20,000,000 C' - 1:20,000,000 C" - 1:20,000,000 27N 062E, 51N 152W, 05S 106E, 02N 160E 39N 066E, 39N 146W, 01S 113E, 01S 167E 38N 067E, 39N 148W, 01S 112E, 01S 167E SEA OF OKHOTSK, NORTHERN SEA OF JAPAN, BO HAI, AND L - 1:10,000,000 ADJACENT WATERS OF THE NORTH PACIFIC. 41N L' - 1:05,000,000 X - 1: 6,000,000 140<u>E</u> 140E 40N 149E 118E, 17N 147E 49N 49N 151E, 160E, 43N 46N 107E, 18N

(INFORMATION DATED 01 MAR 2007/ Nov 2008) 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	CONTI	ENTS OF TRANSMISSIO	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	ED 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	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	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 00/12 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 0805/	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	00/12 00/12 12/00 00/12 00/12 00/12 00/12 00/12 06/18 06/18 00/12 00/12 00/12 00/12 0000	
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	1200 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-BROADCAST-SCHEDULE.htm

SEOUL, REPUBLIC OF KOREA

CALL SIGN	FREQUENCIES	TIMES EMISSION	POWER
HLL1	3585 kHz	ALL BROADCAST TIMES F3C	3 KW
HLL2	5857.5 kHz	ALL BROADCAST TIMES F3C	3 KW
HLL3	7433.5 kHz	ALL BROADCAST TIMES F3C	3 KW
HLL4	9165 kHz	ALL BROADCAST TIMES F3C	3 KW
HLL5	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/	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	120/576 120/576 120/576 120/576 120/576	00/12 0000 00/12	
0140/1340 0200/1400 0300/	SURFACE ANALYSIS TYPHOON WARNING AND FORECAST (1)(KOREAN) KOREAN PENINSULA MONTHLY WEATHER FORECAST (2)(KOREAN) LOCAL WEATHER ADVISORY/WARNING REPORT (KOREAN)	120/576 120/576 120/576 120/576	00/12 00/12	
0320/1520 0332/ 0346/1546 0415/ 0440/1640	SEA-SHORE WEATHER OBSERVATION REPORT (KOREAN) LIGHTHOUSE WEATHER OBSERVATION REPORT (KOREAN) WEATHER OBSERVATION REPORT FOR FISHERY (KOREAN) KOREAN PENINSULA WEEKLY WEATHER FORECAST (KOREAN) SURFACE ANALYSIS	120/576 120/576 120/576 120/576 120/576	03/15 0300 03/15	
0455/1655 0507/1707 0519/1719 0600/1800	850MB ANALYSIS	120/576 120/576 120/576 120/576	00/12 00/12 00/12	
0620/1820 0632/ 0646/1846 0700/1900 0712/	TOOMS ANALYSIS 500MB ANALYSIS 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	120/576 120/576 120/576 120/576 120/576	0618 0600 06/18 0530/1730	
0740/1940 0800/2000 0821/2021 0834/2034	SURFACE ANALYSIS 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	120/576 120/576 120/576 120/576	06/18 06/18 00/12 00/12	
0847/2047 0900/2100 0920/2120 0932/2132 0946/2146	36HR SEA WAVE HT & WIND FORECAST OF NEAR KOREAN PENINSULA SEA WEATHER FORECAST OVER NEAR KOREAN PENINSULA (KOREAN SEA-SHORE WEATHER OBSERVATION REPORT (KOREAN) LIGHTHOUSE WEATHER OBSERVATION REPORT (KOREAN) WEATHER OBSERVATION REPORT FOR FISHERY (KOREAN) WEATHER FORECAST FOR SHIP ROUTE (KOREAN)		00/12 0830/2030 09/21 09/21 09/12	
1012/2212 /2227 1040/2240	WEATHER FORECAST FOR SHIP ROUTE (KOREAN) LIGHTHOUSE WEATHER OBSERVATION REPORT (3) (KOREAN) SURFACE ANALYSIS	120/576 120/576 120/576	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) http://web.kma.go.kr/kma06/weathernews/kma_submain_weathernews_right05.htm

BANGKOK, THAILAND

CALL SIGI HSW64	NS FREQUENCIES TIMES 7395.0 kHz *	EMISSION F3C		OWER KW
TIME CON' 0050/ 0100/0700 0120/	TENTS OF TRANSMISSION TEST CHART FORECAST FOR SHIPPING (IN ENGLISH) SURFACE PRESSURE	RPM/IOC 120/576 120/576 120/576	VALID TIME 00/06 1200	MAP AREA A A A
0140 0200/ 0300/0720 0320/0740 0340/0800	SURFACE ANALYSIS BROADCAST SCHEDULE 24 HR SURFACE PROG 48 HR SURFACE PROG 72 HR SURFACE PROG	120/576 120/576 120/576 120/576 120/576	1800 12/12 12/12 12/12	A A A A A
/0820 0400/1000 0420/ 0500/1020 0520/ 0540/	24 HR 850 MB WIND/TEMP PROG FORECAST FOR SHIPPING (IN ENGLISH) 24 HR 850 MB WIND/TEMP PROG SURFACE ANALYSIS 850 MB ANALYSIS 700 MB ANALYSIS	120/576 120/576 120/576 120/576 120/576 120/576	1200 03/09 1200 00/06 0000 0000	A A A A A A A
0600/ /1300 /1700 /2300 /2320	500 MB ANALYSIS FORECAST FOR SHIPPING (IN ENGLISH) FORECAST FOR SHIPPING (IN ENGLISH) SURFACE ANALYSIS FORECAST FOR SHIPPING (IN ENGLISH) SURFACE ANALYSIS	120/576 120/576 120/576 120/576 120/576 120/576	0000 1200 1700 1200 1700 1800	A A A A

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

(INFORMATION DATED JAN 2009)

 $^{^{\}star}$ May refer to carrier frequency, for center frequency add 1.9 kHz

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 60/576 120/576	0000	
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 TUE-SAT: English Ed (R) MON-SAT: FAX DAYORI 4(N), (except 2nd & 4th MON and every WED and FRI)	120/576 60/576 60/576 60/576 120/576 60/576		
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	FREQUEN	CIES	TIMES	EMISSION	POWER
GYA	6834 k	Hz	1800-0800 UTC	F3C	10 KW
GYA	12390 k	Hz	ALL BROADCAST TIMES	F3C	10 KW
GYA	18261 k	Hz	0800-1800 UTC	F3C	10 KW

TIME	CONTENTS OF TRANSMISSION	RPM/IOC	VALID TIME	MAP AREA
0106/1306 0118/1318 0142/ 0306/1506 0354/1554	SCHEDULE QSL REPORT SYMBOLOGY SURFACE ANALYSIS STREAMLINE ANALYSIS	120/576 120/576 120/576	00/12 00/12	
0406/1606 0418/1618 0430/1630 0442/1642 0454/1654 0506/1706	SURFACE ANALYSIS 700 hPA WBPT/PPTN +24 AIR TEMP/DEW POINT +24 SURFACE PROG T+24 GULF TAFS SURFACE ANALYSIS	120/576 120/576 120/576 120/576 120/576 120/576	00/12 00/12 00/12 00/12 03/15 00/12	
0518/1718 0530/1730 0542/1742 0606/1818 0618/1830 0654/1854	SCHEDULE QSL REPORT SYMBOLOGY SURFACE ANALYSIS STREAMLINE ANALYSIS SURFACE ANALYSIS 700 hPA WBPT/PPTN +24 AIR TEMP/DEW POINT +24 SURFACE PROG T+24 GULF TAFS SURFACE PROG T+24 SURFACE PROG T+48 GULF TAFS SURFACE PROG T+48 GULF TAFS SURFACE ANALYSIS SURFACE ANALYSIS SURFACE PROG T+24 SURFACE PROG T+24 GULF TAFS SIGNIFICANT WINDS PROG T+24 SURFACE PROG T+25 SURFACE PROG T+48 SURFACE PROG T+72 SURFACE PROG T+96 SURFACE PROG T+120 THICKNESS/GEOPONTENTIAL HEIGHT ANALYSIS SURFACE SIGNIFINT WINDS T+48	120/576 120/576 120/576 120/576 120/576 120/576	00/12 00/12 06/18 0000 00/12 06/18	
0706/1906 0718/1918 0730/1930 0742/1942 0754/1954 /2006	SPARE TAFS SIGNIFICANT WINDS PROG T+24 SURFACE PROG T+48 SURFACE PROG T+72 SURFACE PROG T+96 SURFACE PROG T+120	120/576 120/576 120/576 120/576 120/576 120/576	00/12 00/12 00/12 00/12 1200	
0818/2018 0830/2030 0842/2042 0854/2054 0906/	SURFACE SIGNIFINT WINDS T+72 SURFACE SIGNIFINT WINDS T+96	120/576 120/576 120/576 120/576	00/12 00/12 00/12 00/12 0600	
/2106 0930/2130 0942/2142 0954/2154 1006/2206 1018/ 1042/2242	SURFACE ANALYSIS THICKNESS/GEOPONTENTIAL HEIGHT ANALYSIS THICKNESS/GEOPONTENTIAL HEIGHT T+24 850 hPA WINDS T+24 700 hPA WINDS T+24 SEA SURFACE TEMP SURFACE PROG T+24 700 hPA WBPT/PPTN T+24 AIR TEMP/DEW POINT +24 SEA AND SWELL PROGNOSIS T+24	120/576 120/576 120/576 120/576 120/576 120/576 120/576	1200 00/12 00/12 00/12 00/12 0600 06/18	
1054/2254 1130/2330	AIR TEMP/DEW POINT +24 SEA AND SWELL PROGNOSIS T+24	120/576 120/576	06/18 06/18	

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 OCT 24 2007)

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: 1:101,200,000 20N 090W,20N 000E,70 S 090W, 70S 000E B: 1:58,500,000 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 28 Oct 2008) 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 1130 1630 1645 1915 1930 2200 2215 2230 2310	SURFACE ANALYSIS SATELLITE IMAGE SURFACE ANALYSIS SATELLITE IMAGE SIGNIFICANT WAVE MAP (MTS) SATELLITE IMAGE SURFACE ANALYSIS ICE REPORT 12HR WINDS BARB ISOTACHS FORECAST 12HR SURFACE FORECAST	120/576 120/576 120/576 120/576 120/576 120/576 120/576 120/576 120/576	0600 0900 1200 1500 1200 1800 1800	444444444
2325	SATELLITE IMAGE	120/576	2100	Α

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 AREA	MAP
0001/ 0101/ 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/ 1001/ 1002//2201 1022//2301	Ice Chart #1 (see note): Latest) 3-DAY PROG SATELLITE PHOTO INFRARED 4-DAY PROG 5-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 LATEST LATEST LATEST LATEST 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 G. 52N 98W, 56N 24W, 30N 39W, 28N 78W D. 60N 68W, 60N 33W, 43N 33W, 43N 68W H. 30N 107W, 15N 67W, 34N 24W, 79N 60W I. 54N 100W, 58N 22W, 30N 39W, 28N 78W

(INFORMATION DATED 2008) http://www.ccg-gcc.gc.ca/folios/00026/docs/ramn_atlantic2008-eng.pdf

IQALUIT, N.W.T., CANADA

CALL SIGI VFF VFF	N FREQUENCIES 3253.0 kHz 7710.0 kHz	TIMES 2100 – 2330 UTC 0010 – 0900 UTC	EMISSION J3C J3C		WER KW KW
TIME	CONTENTS OF TRANSMISSION		RPM/IOC	VALID TIME	MAP AREA
0010/	Ice Analysis Hudson Bay south, Hu		120/576		, <u></u>
0600/2100	Foxe Basin, Labrador Coast, Davis Marine Surface Analysis (Arctic) Marine wind prognosis (Arctic) (ex Regional Marine Wind Prognosis (•	120/576		
0700/2125	Ice Analysis Hudson Bay south, H	udson Bay north, Hudson Strait,	120/576		
0800/2330	Foxe Basin, Labrador Coast, Davis Marine Surface Analysis (Arctic) Marine wind prognosis (Arctic) (ex Regional Marine Wind Prognosis (perimental product)	120/576		
0900/	Ice Analysis Hudson Bay south, H Foxe Basin, Labrador Coast, Davis	udson Bay north, Hudson Strait,	120/576		

Operating only from approximately mid-June until late-November

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

(INFORMATION DATED 2008) http://www.ccg-gcc.gc.ca/folios/00026/docs/ramn_atlantic2008-eng.pdf

RESOLUTE, N.W.T., CANADA

CALL SIGI VFR VFR	N FREQUENCIES 3253.0 kHz 7710.0 kHz	TIMES 0010 – 0900 UTC 2100 – 2330 UTC	EMISSION J3C J3C	1 PC 5 5	WER KW KW
TIME	CONTENTS OF TRANSMISSION	N	RPM/IOC	VALID TIME	MAP AREA
0010/	Ice analysis Baffin Bay, Approach		120/576		
0600/2100	Eureka Sound, McClure Strait, Pa Marine Surface Analysis (Arctic) Marine wind prognosis (Arctic) (Regional Marine Wind Prognosis	•	120/576		
0700/2125	Ice analysis Baffin Bay, Approach	nes to Resolute, Resolute-Byam,	120/576		
0800/2330	Eureka Sound, McClure Strait, Pa Marine Surface Analysis (Arctic) Marine wind prognosis (Arctic) (Regional Marine Wind Prognosis	•	120/576		
0900/		hes to Resolute, Resolute-Byam,	120/576		

Operating only from approximately mid-June until late-November

(INFORMATION DATED 2008) http://www.ccg-gcc.gc.ca/folios/00026/docs/ramn_atlantic2008-eng.pdf

SYDNEY - NOVA SCOTIA, CANADA

VCO VCO	N FREQUENCIES 4416 kHz 6915.1 kHz	TIMES 1121-1741 2200-2331	J3C J3C	PO	WER
TIME	CONTENTS OF TRANSMISSION	N	RPM/IOC	VALID TIME	MAP AREA
1121 1142 1741 2200 2331	ICE ANALYSIS ICEBERG LIMIT ICE ANALYSIS GULF OF ST. LA	HEAST NEWFOUNDLAND WATERS	120/576 120/576		

(INFORMATION DATED 2008) http://www.ccg-gcc.gc.ca/folios/00026/docs/ramn_atlantic2008-eng.pdf

INUVIK, CANADA

CALL SIGN VFA	N FREQUENCIES TIMES 8457.8 kHz	EMISSION J3C	1 PO 1	WER KW
TIME	CONTENTS OF TRANSMISSION	RPM/IOC	VALID TIME	MAP AREA
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 lce 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 2008) http://www.ccg-gcc.gc.ca/folios/00026/docs/ramn_pacific2008-eng.pdf

KODIAK, ALASKA, U.S.A.

CALL SIGN	FREQUENCIES	TIMES	EMISSION	POWER
NOJ	2054 kHz	ALL BROADCAST TIMES	F3C	4 KW
	4298 kHz	ALL BROADCAST TIMES	F3C	4 KW
	8459 kHz	ALL BROADCAST TIMES	F3C	4 KW
	12412.5 kHz	ALL BROADCAST TIMES	F3C	4 KW

TIME	CONTENTS OF TRANSMISSION	RPM/IOC	VALID TIME	MAP AREA
0400/1600 0403/1603 0427/1627 0437/1637 0447/1647	TEST PATTERN SURFACE ANALYSIS REBROADCAST 24HR SURFACE F'CAST 2227/1027 REBROADCAST 48HR SURFACE F'CAST 2237/1037 REBROADCAST 96HR SURFACE F'CAST 2348 SEA STATE ANALYSIS/REBROADCAST GOES IR SATELLITE IMAGE 500 MB ANALYSIS SYMBOLS AND CONTRACTIONS/SCHEDULE REQUEST FOR COMMENTS/PRODUCT NOTICE 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 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 WIND/WAVE FORECAST	120/576 120/576 120/576 120/576 120/576	00/12 12/00 1200 LATEST	2 3 1
0456/1656 0506/1706 0517/1717 0527/1727	SEA STATE ANALYSIS/REBROADCAST GOES IR SATELLITE IMAGE 500 MB ANALYSIS SYMBOLS AND CONTRACTIONS/SCHEDULE	120/576 120/576 120/576 120/576	00/00 00/12 00/12	1 5 1
0548/1748 0558/1758 0950/2150	REQUEST FOR COMMENTS/PRODUCT NOTICE 24HR 500 MB FORECAST TEST PATTERN	120/576 120/576 120/576	00/12	1
0953/2153 1017/2217 1027/2227 1037/2237	SURFACE ANALYSIS 24HR WIND/WAVE FORECAST 24HR SURFACE FORECAST	120/576 120/576 120/576 120/576	06/18 00/12 00/12 00/12	2 3 1
1037/2237 1047/2247 1057/2257 1117/2317	48HR WIND/WAVE FORECAST 5-DAY SEA ICE FORECAST/SEA ICE ANALYSIS GOES IR SATELLITE IMAGE	120/576 120/576 120/576 120/576	00/12 LATEST 00/12	165
1128/2328 1138/2338 1148/ 1159/	48HR WAVE PERIOD, SWELL DIRECTION 48HR 500 MB FORECAST SEA SURFACE TEMPERATURE ANALYSIS COOK INLET SEA ICE FORECAST	120/576 120/576 120/576 120/576	00/12 00/12 LATEST LATEST	1 1 4 7
/2348 /2358 /0008 /0018	96HR SURFACE FORECAST 96HR WIND/WAVE FORECAST 96HR WAVE PERIOD, SWELL DIRECTION 96HR 500 MB FORECAST	120/576 120/576 120/576 120/576	1200 1200 1200 1200	1 1 1

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

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 http://www.nws.noaa.gov/om/marine/home.htm cell.weather.gov mobile.weather.gov NWS Homepage NWS Marine Page Cellphone page Mobile Page

(SCHEDULE EFFECTIVE DEC 02 2008)
(INFORMATION DATED FEB 24 2009) http://weather.noaa.gov/pub/fax/hfak.txt

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

CALL SIGN	FREQUENCIES	TIMES (UTC)	EMISSION	POWER
NMC	4346 kHz	0140-1608 ´	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	1840-2356	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 48HR SURFACE 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 12/00 1200 1200 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 0808/1923 0808/1933 0818/1943 0828/1953 0838/2003 0848/2013 0858/2023 /2033 /2043 /2053 /2103 0908/2113 0919/2124 0932/2137 0945/2150 0959/2204 1009/2214 1120/2320 1124/2324 1135/2335	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 TROPICAL GOES IR SATELLITE IMAGE WIND/WAVE ANALYSIS 24HR 500MB FORECAST 24HR SURFACE FORECAST 24HR WIND/WAVE FORECAST 48HR 500MB FORECAST 48HR SURFACE FORECAST 48HR WIND/WAVE FORECAST 48HR WIND/WAVE FORECAST 96HR SUMFACE FORECAST 96HR SUMFACE FORECAST 96HR SURFACE FORECAST 96HR WIND/WAVE FORECAST 96HR WAVE PERIOD/SWELL DIRECTION PACIFIC GOES IR SATELLITE IMAGE SURFACE ANALYSIS (PART 1 NE PACIFIC) SURFACE ANALYSIS (PART 1 NE PACIFIC) TROPICAL 24HR WIND/WAVE FORECAST CYCLONE DANGER AREA* or HIGH WIND/WAVES TEST PATTERN BROADCAST SCHEDULE (PART 1) BROADCAST SCHEDULE (PART 1) BROADCAST SCHEDULE (PART 2)	120/576 120/576	1200 1200 1200 1200 LATEST LATEST 06/18 06/18 00/12 00/12 00/12 00/12 1200 1200 1200	11119678188111111115234410
1146/ 1157/ 1208 1218/ 1228/2346 /2356	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	0000 0000 00/12 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.

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

> 3. 20N - 70N, 175W - 135E 4. 20S - 30N, EAST OF 145W 5. 05N - 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

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 cell.weather.gov

NWS Marine Page Cellphone page mobile.weather.gov Mobile Page

(SCHEDULE EFFECTIVE NOV 03, 2008 1719z)

(INFORMATION DATED FEB 24, 2009) http://weather.noaa.gov/pub/fax/hfreyes.txt

NEW ORLEANS, LOUISIANA, U.S.A.

CALL SIGN	FREQUENCIES	TIMES (UTC)	EMISSION	POWER
NMG	4317.9 kHz	ALL BRÒADĆAST TIMES	F3C	4 KW
	8503.9 kHz	ALL BROADCAST TIMES	F3C	4 KW
	12789.9 kHz	ALL BROADCAST TIMES	F3C	4 KW
	17146.4 kHz	1200-2045	F3C	4 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 0225/1425 0245/1445 0600/1800 0605/1805 0620/1820 0635/1835 0645/1845 0655/1855 0705/1905 0715/1915 0725/1925 0735/1935 0750/1950	TEST PATTERN U.S./TROPICAL SURFACE ANALYSIS (W HALF) TROPICAL SURFACE ANALYSIS (E HALF) (REBROADCAST OF 1835/0635) (REBROADCAST OF 1845/0645) (REBROADCAST OF 1855/0655) (REBROADCAST OF 1905/0705) (REBROADCAST OF 1915/0715) (REBROADCAST OF 1915/0715) (REBROADCAST OF 1925/0725) CYCLONE DANGER AREA* or 48 HR HIGH WIND/WAVES (REBROADCAST OF 0825) 36 HR WIND/WAVE FORECAST GOES IR TROPICAL SATELLITE IMAGE 00 HR SEA STATE ANALYSIS REQUEST FOR COMMENTS/PRODUCT NOTICE HIGH SEAS FORECAST (IN ENGLISH) 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 48 HR SURFACE FORECAST 48 HR SURFACE FORECAST	120/576 120/576	18/06 18/06 12/00 12/00 12/00 12/00 12/00 12/00 12/00 12/00 21/09 0000 1200 00/12 00/12 22/10 00/12 00/12 00/12 00/12 00/12 00/12 00/12 00/12 00/12 00/12 00/12	MAPA 1233333363343 5 12333333363433
0800/2000 0815/2015 0825/ 0835/	CYCLONE DANGER AREA'S OF 48HR HIGH WIND/WAVES 48 HR WAVE PERIOD/SWELL DIRECTION GOES IR TROPICAL SATELLITE IMAGE (REBROADCAST OF 0215/1415) 72 HR WAVE PERIOD/SWELL DIRECTION (REBROADCAST OF 1350) BROADCAST SCHEDULE HIGH SEAS FORECAST (IN ENGLISH)	120/576 120/576 120/576 120/576 120/576	07/18 00/12 0000 1200	4 3 3
0845/2045	HIGH SEAS FORECAST (IN ENGLISH)	120/576	04/16	5

^{*} Tropical Cyclone Danger Area chart replaced by 48HR 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 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.már@noaa.gov

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

(Schedule Effective Dec 01, 2008)

(Information dated FEB 24, 2009) http://weather.noaa.gov/fax/gulf.shtml

BOSTON, MASSACHUSETTS, U.S.A.

CALL SIGN NMF	FREQUENCIES 4235 kHz 6340.5 kHz 9110 kHz	TIMES 0230z-1028z ALL BROADCAST TIMES ALL BROADCAST TIMES	EMISSION F3C F3C F3C	POWER 4 KW 4 KW 4 KW
	9110 kHz	ALL BROADCAST TIMES	F3C	4 KW
	12750 kHz	1400z-2228z	F3C	4 KW

	12700 KHZ 14002 22202	1 00	7	1
TIME	CONTENTS OF TRANSMISSION	RPM/IOC	VALID TIME	MAP AREA
0230/1400 /1405 /1420 /1433 /1443	TEST PATTERN BROADCAST SCHEDULE (PART 1) BROADCAST SCHEDULE (PART 2) REQUEST FOR COMMENTS PRODUCT NOTICE BULLETIN	120/576 120/576 120/576 120/576 120/576		7111271
0233/1453 0243/ 0254/	PRELIMINARY SURFACE ANALYSIS BROADCAST SCHEDULE (PART 1) BROADCAST SCHEDULE (PART 2) REQUEST FOR COMMENTS	120/576 120/576 120/576 120/576 120/576	00/12	1
/1503 0315/1515 0325/1525	SATELLITE IMAGE WIND/WAVE ANALYSIS SURFACE ANALYSIS (PART 1 NE ATLANTIC)	120/576 120/576 120/576	1200 00/12 00/12	5 8 2 3 5
0338/1538 0351/ /1600 /1720	SURFACE ANALYSIS (PART 2 NW ATLANTIĆ) SATELLITE IMAGE ICE CHARTS TEST PATTERN	120/576 120/576 120/576 120/576	00/12 0000 LATEST	3 5
0402/1723 0415/1736 0428/1749	(REBROADCAST OF 0325/1525) (REBROADCAST OF 0338/1538) 500MB ANALYSIS	120/576 120/576 120/576	00/12 00/12 00/12	2 3 4 4
/1759 0438/1810 0452/1824 0745/1900	SEA STATE ANALYSIS ICE CHARTS CYCLONE DANGER AREA* or 48HR HIGH WIND/WAVES TEST PATTERN	120/576 120/576 120/576 120/576	1200 LATEST 03/15	4 7
0755/ 0805/1905 0815/1915	PRELIMINARY SURFACE ANALYSIS 24HR SURFACE FORECAST 24HR WIND/WAVE FORECAST	120/576 120/576 120/576	0600 00/12 00/12	1 8 8
0825/1925 0835/1935 0845/1945 0855/1955	24HR 500MB FORECAST 36HR 500MB FORECAST 48HR 500MB FORECAST 48HR SURFACE FORECAST	120/576 120/576 120/576 120/576	00/12 12/00 00/12 00/12	4 4 4 4
0905/2005 0915/2015 /2025 /2035	48HR WIND/WAVE FORECAST 48HR WAVE PERIOD FORECAST PRELIMINARY SURFACE ANALYSIS 96 HR 500MB FORECAST	120/576 120/576 120/576 120/576	00/12 00/12 1800 1200	4 4 1
/2045 /2055 /2105	96 HR SURFACE FORECAST 96 HR WIND/WAVE FORECAST 96 HR WAVE PERIOD FORECAST	120/576 120/576 120/576	1200 1200 1200	188444444144444236237
/2115 0925/2125 0938/2138 0951/2151	(REBROADCAST OF 2045) SURFACE ANALYSIS (PART 1 NE ATLANTIC) SURFACE ANALYSIS (PART 2 NW ATLANTIC) SATELLITE IMAGE	120/576 120/576 120/576 120/576	1200 06/18 06/18 06/18	4 2 3 6
1002/2202 1015/2215 1028/2228	(REBROADCAST OF 0925/2125) (REBROADCAST OF 0938/2138) CYCLONE DANGER AREA* or 48HR HIGH WIND/WAVES	120/576 120/576 120/576	06/18 06/18 09/21	2 3 7

^{*} Tropical Cyclone Danger Area chart replaced by 48HR 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. 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

BOSTON, MASSACHUSETTS, U.S.A.

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

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 http://www.nws.noaa.gov/om/marine/home.htm cell.weather.gov mobile.weather.gov NWS Homepage NWS Marine Page Cellphone page Mobile Page

(EFFECTIVE DATE: MAY 16, 2006/DEC 01, 2008)
(INFORMATION DATED FEB 24, 2009) http://weather.noaa.gov/pub/fax/hfmarsh.txt

PACIFIC OCEAN BASIN

CHARLEVILLE, AUSTRALIA

CALL SIGNS	FREQUENC	CIES	TIMES	EMISSION	POWER
VMC	2628 k	ίHz	0900-1900	F3C	1 KW
VMC	5100 k	ίHz	All Broadcast Times	F3C	1 KW
VMC	11030 k	ίHz	All Broadcast Times	F3C	1 KW
VMC	13920 k	ίΗz	All Broadcast Times	F3C	1 KW
VMC	20469 k	Ήz	1900-0900	F3C	1 KW

WILUNA, AUSTRALIA

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

VIVIVV	10000 KHZ Z100-1100	F3C	1 1	VV
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 /1315 /1330 /1345 /1400 0200/	Indian Ocean MSLP Prog (H+36) 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) Australian MSLP Prog (H+36)	120/576 120/576 120/576 120/576 120/576 120/576	1200 0000 0000 LATEST LATEST 0000	IO SWP IO SWP IO AUST
/1415 0245/1430 0300/1500 0315/	Casey Eastern and Western High Seas (H+48) Australian MSLP Anal (Manual) Australian 500 hPa Anal Voice Broadcast Information for VMW (Wiluna)	120/576 120/576 120/576 120/576 120/576	0000 00/12 00/12	AUST AUST
/1515 0400/1600 0430/ 0445	Australian MSLP Prog (H+36) Australian 500 hPa (H+24) Prog Australian MSLP 4-day forecast, Days 1 and 2 Australian MSLP 4-day forecast, Days 3 and 4	120/576 120/576 120/576 120/576	1200 00/12	AUST AUST
/1630 /1700 0600/1800 0623/1823 0645/ 0730/1915	IPS Recommended Frequencies for VMC (Charleville) IPS Recommended Frequencies for VMW (Wiluna) Asian (Part A) Gradient Level Wind Anal (Manual) Asian (Part B) Gradient Level Wind Anal (Manual) Asian MSLP Anal (Manual) Indian Ocean MSLP Anal (Manual)	120/576 120/576 120/576 120/576 120/576 120/576	00/12 00/12 0000 00/12	A B C IO
0745/1930 0800/1945 0830/ 0845/ 0900/	Australian Wind Waves Ht(m) Prog Australian Swell Waves Ht(m) Prog (H+24) South Pacific Ocean MSLP Anal Australian MSLP Anal (Manual) Australian MSLP Prog (H+36) (Repeat) Australian MSLP 4-day forecast, Days 1 and 2 (Repeat)	120/576 120/576 120/576 120/576 120/576 120/576	00/12 00/12 0000 0600 0000	AUST AUST SWP AUST AUST
0930/ /2000 /2015 /2030 1015/	Australian MSLP 4-day forecast, Days 3 and 4 South Pacific Ocean MSLP Anal (Manual) Casey Eastern and Western High Seas (H+24) Australian MSLP Anal (Manual) Casey Eastern and Western High Seas (H+24)	120/576 120/576 120/576 120/576 120/576	1200 1200 1800 0000	SWP AUST
/2215 1030/2230 1045/2245 1100/	Caseý Eastern and Western Hiğh Seas (H+36) S.H. 500 hPa Prog (H+48) S.H. MSLP Prog (H+48) Casey Eastern and Western High Seas (H+36)	120/576 120/576 120/576 120/576	1200 00/12 00/12 0000	SH SH
1115/2300	S.H. 500 hPa Anal	120/576	00/12	SH
/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

CHARLEVILLE & WILUNA, AUSTRALIA

TIME CONTENTS OF TRANSMISSION RPM/IOC VALID MAP
TIME AREA

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

MAP AREAS: A: AUST:	LAMBERT	30N - 35S, 120E - 180 10S - 50S, 090E - 170E
B:		30N - 35S, 070E - 130E
C: E:		30N - 35S, 070E - 180
		40N - 40S, 70E – 180
IO	POLAR	10S - 90S, 0 - 090E - 180
CASEY		50S - 70S, 080E - 160E
SH	POLAR	20S - 90S, all longitudes
PSST	MERCATOR	20N - 50S, 140E - 180 - 100W
SWP_	POLAR	20S - 90S, 150E - 180 - 90W
IOSST	MERCATOR	20N - 50S, 30E - 150E

(INFORMATION DATED Nov 14, 2007) http://www.bom.gov.au/marine/radio-sat/radio-fax-schedule.shtml

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
0000/1200 0100/1300 0200/1400 0300/1500 0400/1600 0900/2100 1000/2200 1100/2300	SOUTHWEST PACIFIC 30HR SURFACE PROG (MSL) 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 TRANSMISSION SCHEDULE	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 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.

CALL SIGN KVM70	FREQUENC I 9982.5 kH 11090 kH 16135 kH	z 0519-15 5 6 ´ z ALL BROADCAS ⁻		MISSION F3C F3C F3C	4 4	WER KW KW KW
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 0816/2016 0826/2026 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 1234/0034 1248/0048 1300/0100 1320/0120 1340/0140 1400/0220 1410/0210 1420/0220 1410/0210 1420/0220 1530/0330 1510/0310 1556/0356	rebroadcast/ 96HR SUF rebroadcast/ 96HR WIN PACIFIC GOES IR SAT SURFACE ANALYSIS (FROPICAL GOES IR SAT FROPICAL GOES IR SAT FROPICAL SURFACE A FROPICAL WIND CYCLONE DANGER AI HAHR WIND/WAVE FOI TEAT WIND/WAVE FOI TEAT WIND/WAVE FOI TEAT SURFACE TEMPS FEBORD TO THE SEN PACIFIC GOES IN SURFACE ANALYSIS EAST PACIFIC GOES IN SCHEDULE PART IN SCHEDULE SURFIT IN SCHEDULE SURFIT IN SCH	FEATURES REA IS R SATELLITE IMAGE SATELLITE IMAGE CAST CAST CAST CAST RECAST RECAST RECAST D,SWELL DIRECTION RFACE FORECAST D/WAVE FORECAST ELLITE IMAGE PART 1 NE PACIFIC) PART 2 NW PACIFIC) ATELLITE IMAGE ANALYSIS D/WAVE FORECAST RECAST R	1: 1: 1: 1: 1: 1: 1: 1: 1: 1: 1: 1: 1: 1	PM/IOC 20/576	VALID TIME 03/15 03/15 03/15 00/12 00/12 00/12 00/12 00/12 00/12 00/12 00/12 00/12 00/12 00/12 12/12 12/12 12/12 12/12 12/12 12/12 12/12 12/12 06/18 06/18 06/18 06/18 06/18 06/18 06/18 06/18 06/18 06/18 06/18 06/18 06/18 06/18 06/18 06/18 06/18 06/18 06/12 00/12	MAPA DEBCGHAAABB411111523YZZEBBFBBCGH ZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZ
MAP AREAS: A. 30S - 50N, 1 C. EQ - 50N, 1 E. EQ - 40N, 8 G. 05S - 55N, 1 1. 20N - 70N, 1 3. 20N - 70N, 1 5. 05N - 55N, E Y. 05N - 32N, E	10W - 130E D. 3 30W - 170E F. 1 110W - 155E H. 4 15W - 135E 2. 2 75W - 135E 4. 1 EAST OF 180W	30S - 30N, 110W - 130E 30S - 50N, 110W - 160E EQ - 55N, 110W - 160E 40S - 05N, 130W - 165E 20N - 70N, 115W - 175W 8N - 62N, EAST OF 157W	Honolulu Fore Honolulu Fore Honolulu Fore Honolulu Fore Ocean Predic Ocean Predic Tropical Predi	cast Office cast Office cast Office tion Center tion Center tion Center	r	

HONOLULU, HAWAII, U.S.A.

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) 973-5270/FAX: (808) 973-5281 E-Mail norman.hui@noaa.gov

Many of these charts also broadcast via Pt. Reyes, CA and Kodiak, AK

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 http://www.nws.noaa.gov/om/marine/home.htm cell.weather.gov mobile.weather.gov NWS Homepage NWS Marine Page Cellphone page Mobile Page

(SCHEDULE EFFECTIVE Nov 03, 2008) (INFORMATION DATED FEB 24, 2009)

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

EUROPE

ATHENS, GREECE

CALL SIG SVJ4 SVJ4	N FREQUENCY TIMES 4481 kHz 8105 kHz	EMISS F3C F3C	8	OWER KW KW
TIME	CONTENTS OF TRANSMISSION	RPM/IOC	VALID TIME	MAP 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+42) WAVE HEIGHT PROG (H+48)	120/576 120/576 120/576 120/576 120/576 120/576 120/576 120/576 120/576 120/576	0600 0600 1800 0000 0600 1200 1800 0000 0600 1200	АААВВВВСССС

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

(INFORMATION DATED (03/2007) http://www.gnto.gr/pages.php?pageID=238&langID=2

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	ANEA
0546/1821 /1834 0559/ 0612/	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	120/576 120/576 120/576 120/576	03/15 1200 0000 0000	
0625/ 0638/ 0651/ 0704/ 0717/ 0730/1847	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	120/576 120/576 120/576 120/576 120/576 120/576	0000 0000 0000 0000 1800 00/12	
0743/ 0804/1900 0817/ 0830/1913 0842/1926	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+48 (GSM) Sea and swell, wind direction, direction of swell	120/576 120/576 120/576 120/576 120/576	00/12 0000 00/12 0000 00/12 00/12	
0854/1939 0906/ 0930/2100 0945/ 1007/2115	H+72 (GSM) Sea and swell, wind direction, direction of swell H+96 (GSM) Sea and swell, wind direction, direction of swell lce conditions chart Northwest Atlantic Sea surface temperature North Sea lce conditions chart West Baltic Sea	120/576 120/576 120/576 120/576 120/576	00/12 00/12 0000 00/12 0000 00/15	
1029/2137 1050/2200 1111/ 1132/	H+48 wave prediction Surface weather chart Transmission schedule Test chart Repetition chart 1050 UTC	120/576 120/576 120/576 120/576 120/576 120/576	00/12 06/18 06/00	

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/bvbw/generator/Sites/DWDWWW/Content/Oeffentlichkeit/TI/TI1/Informationstechnik/Datenverteilung/Broadcasting/Pinneberg/pdf/Sendeplan_20Seefax,templateId=raw,property=publicationFile.pdf/Sendeplan%20Seefax.pdf

ROME, ITALY

CALL SIG IMB51 IMB55	NS FREQ 4777.5 8146.6	UENCIES kHz kHz	TIMES ALL BROADCAST TIMES ALL BROADCAST TIMES	EMISSION F3C F3C	I PC 5 5	WER KW KW
IMB56	13597.4	kHz	ALL BROADCAST TIMES		5	KW
TIME	CONTENTS OF	TRANSMISS	ION	RPM/IOC	VALID TIME	MAP AREA
0048/ 0248/ 0345/ 0415/ 0425/ 0510/ 0522/ 0535/ 0654/ 0848/ 0913/ 1030/ 1030/ 1140/ 1153/ 1200/ 1248/ 1555/ 1630/ 1645/ 1730/	SW TMW FL 10 SW TMW FL 10 DP 3H 00/Z; AU AS (ORA LEGA FRZL 00/Z; AU ITALIA 03/Z AS (ORA SOLA AU 700 00/Z; A AU 200 00/Z; TN SWL for 12/Z FL 390, 340, 30 SW TMW FL 10 FU 500 H + 36 FU 500 H + 72 FU 500 H + 96 FU 500 H + 120 SW TMW FL 10 FS H + 24; DP AS 06/Z SWL for 18/Z STATO DEL MI ITALIA 09/Z FL 390, 340, 30 SW TMW FL 10 ITALIA 15/Z SWL for 00/Z AS 12/Z DP 3HR 12/Z; A AU 200 12/Z; TN FRZL 12/Z; AU FL 390, 340, 30 SW TMW FL 10 ITALIA 15/Z SWL for 00/Z AS 12/Z DP 3HR 12/Z; A SW TMW FL 10 ITALIA 15/Z SWL for 00/Z AS 12/Z DP 3HR 12/Z; A SW TMW FL 10 STATO DEL MI SWL for 06/Z ITALIA 21/Z AS 18/Z FS H + 24; DP	00.450 for 12/Z 00.450 FOR 12/Z 00.450 FOR 12/Z 00.450 FOR 12/Z 00/Z	00, 50 SW for 18/Z di BRACKNELL Z di BRACKNELL Z (in mancanza della SW delle 14:4 00, 50 SW for 06/Z di BRACKNELL Z di BRACKNELL	120/576 120/576		

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	NS FREQUENCIES TIMES 3830 kHz 5008 kHz 6987 kHz 7695 kHZ 10980 kHz 12961 kHz 11617 kHz	EMISSION F3C F3C F3C F3C F3C F3C F3C F3C	N PC	OWER
TIME	CONTENTS OF TRANSMISSION	RPM/IOC	VALID TIME	MAP AREA
0003//1210 0016//1225 0029//1240 0044//1253 0059//1306 0114/ 0151/1333/1320 0129/ 0151/1333/1355 0215/1417 0245/1447 0307/1509 0337/1539 0407/1609 0437/1639 0513/1715 0543//1745 0555//1817 0619//1817 0619//1817 0619//1832 0644//1832 0644//1832 0644//1832 0704//1930 0739//1943 0752//1956/2009 0822//1956/2009 0822//2101 0922//2031 0852//2009 0822//2101 0922//2101 0922//2216	18HR SIGNIFICANT WEATHER PROG BELOW 400MB 24HR 300MB PROG 18HR 400MB PROG 30HR 200MB PROG 30HR SIGNIFICANT WEATHER PROG ABOVE 400MB 30HR 250MB PROG 18HR SIGNIFICANT WEATHER PROG ABOVE 400MB 30HR 250MB PROG 18HR 300MB PROG 18HR SIGNIFICANT WEATHER PROG BELOW 400MB 30HR SIGNIFICANT WEATHER PROG BELOW 400MB 30HR SIGNIFICANT WEATHER PROG 500MB ANALYSIS 300MB ANALYSIS 500MB ANALYSIS 400MB ANALYSIS 500MB ANALYSIS 500MB ANALYSIS 500MB ANALYSIS 400MB ANALYSIS 24HR SURFACE PROG NEPHANAL & 24HR PROG 24HR/36HR 700MB PROG 30HR 200MB PROG 30HR 200MB PROG 12HR SIGNIFICANT WEATHER PROG ABOVE 400MB 12HR 300MB PROG 30HR 250MB PROG 30HR 250MB PROG 30HR SIGNIFICANT WEATHER PROG MAX WIND ANALYSIS 12HR 400MB PROG 12HR 400MB PROG 12HR 400MB PROG 12HR 400MB PROG MAX WIND ANALYSIS 12HR 5IGNIFICANT WEATHER PROG BELOW 400MB 12HR 300MB PROG 12HR 400MB PROG 12HR 400MB PROG 12HR 400MB PROG 12HR 400MB PROG 30HR 250MB ANALYSIS 30HRACE ANALYSIS 3URFACE ANALYSIS	120/576 120/576	1200 0000 1200 0000 1200 0000 1200 1200	\mathcal{G}^{X}

MOSCOW, RUSSIA

TIME	CONTENTS OF TRANS	MISSION			RPM/IOC	VALID TIME	MAP AREA
/2231 1040/2246 1116/	24HR 300MB PROG SURFACE ANALYSIS TECHNICAL STOP				120/576 90/576	1200 09/21	R P
/2322 /2337 1140/ /2350 1155/	24HR SIGNIFICANT WE 18HR SIGNIFICANT WE 24HR 200MB PROG		ABOVE 400MB	120/576 120/576 120/576 120/576 120/576	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	56N 018W, 03N 097W, 67N 002E, 61N 010E, 39N 066W, 32N 051W, NORTHERN H	03S 027W, 42N 028E, 43N 022E, 08N 014E,	30N 016W, EQ 142E, 74N 061E, 61N 071E, 18N 149E, 32N 167E, 0N - 20N	05S 44N 43N 02S	072E 077E 055E 059E 088E 103E	

(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	NCIES kHz kHz kHz kHz kHz	TIMES ALL BROADCAST TIMES 1900-0600 0600-1900	EMISSION F3C F3C F3C F3C	I 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	OVEDACE.	ADEA IS EOD	DADENTS 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	FREQUE	ENCIES	TIMES	EMISSION	POWER
GYA	2618.5	kHz	2000-0600 UTC	F3C	10 KW
GYA	4610	kHz	ALL BROADCAST TIMES	F3C	10 KW
GYA	8040	kHz	ALL BROADCAST TIMES	F3C	10 KW
GYA	11086.5	kHz	0600-2000 UTC	F3C	10 KW

TIME	CONTENTS OF TRANSMISSION	RPM/IOC	VALID TIME	MAP AREA
0000/1200 0012/1212 0024/1224 0036/1236 0048/1248 0100/1300	SFC ANALYSIS SFC PRONOSIS T+24 850MB WEBT/PPTN T+24 OAT AND TD CONTOUR T+24 SHIP ICE ACCRETION MAIN SCHEDULE	120/576 120/576 120/576 120/576 120/576 120/576	18/06 18/06 18/06 18/06 12/00	ANEA
0124/1324 0136/1336 0148/1348 0212/ /1400 0236/1436 0300/1500	CONTENTS OF TRANSMISSION SFC ANALYSIS SFC PRONOSIS T+24 850MB WEBT/PPTN T+24 OAT AND TD CONTOUR T+24 SHIP ICE ACCRETION MAIN SCHEDULE GSL REPORT OCEAN FRONTS 300MB GPH SYMBOLOGY SEA SURFACE TEMP SFC ANALYSIS SFC ANALYSIS GALE WARNING SUMMARY SFC ANALYSIS OAT AND TD CONTOUR T+24 TA AND TD CONTOUR T+24 SOMB WEBT/PPTN T+24 SURFACE PROGNOSIS T+24 SCEXA TAFS SFC ANALYSIS SURFACE PROGNOSIS T+48 SCEXA TAFS GALE WARNING SUMMARY SFC PROGNOSIS T+24 SURFACE PROGNOSIS T+24 SURFACE PROGNOSIS T+24 SURFACE PROGNOSIS T+24 SCEXA TAFS SPARE SCEXA TAFS THICKNESS/GPH ANALYSIS SIG WINDS T+24 SFC PROGNOSIS T+120 THICKNESS/GPH ANALYSIS SIG WINDS T+24 SFC PROGNOSIS T+120 THICKNESS/GPH ANALYSIS SIG WINDS T+26 SIG WINDS T+96 SFC PROGNOSIS T+120 THICKNESS/GPH ANALYSIS THICKNESS/GPH ANALYSIS THICKNESS/GPH ANALYSIS THICKNESS/GPH ANALYSIS THICKNESS/GPH T+24 850MB WEBT/PTN T+24 700MB SPOT WINDS T+24 SSOMB WEBT/PTN T+24 SSOMB WEBT/PTM	120/576 120/576 120/576 120/576 120/576 120/576 120/576	18/06 0000 00/12 00/12	
0348/1548 0400/1600 0412/ /1612 0424/1624 0436/1636	GALE WARNING SUMMARY SFC ANALYSIS OAT AND TD CONTOUR T+24 TA AND TD CONTOUR T+24 850MB WEBT/PPTN T+24 SURFACE PROGNOSIS T+24	120/576 120/576 120/576 120/576 120/576 120/576	04/16 00/12 0000 1200 00/12 00/12	
0448/1648 0500/1700 0512/1712 0524/1724 0536/1736 0548/1748	SCEXA TAFS SFC ANALYSIS SURFACE PROGNOSIS T+24 SURFACE PROGNOSIS T+48 SCEXA TAFS GALE WARNING SUMMARY	120/576 120/576 120/576 120/576 120/576 120/576	00/12 00/12 00/12 06/18 06/18	
0612/1800 0624/1812 0648/1848 0700/ /1900 0712/1912	SFC ANALYSIS SURFACE PROGNOSIS T+24 SCEXA TAFS SPARE SCEXA TAFS THICKNESS/GPH ANALYSIS SIG WINDS T+24 SEC PROCNOSIS T+48	120/576 120/576 120/576 120/576 120/576 120/576 120/576	00/12 00/12 07/19 0700 1200 00/12 00/12	
0724/1924 0736/1936 0748/1948 0800/2012 0812/ 0824/2024	SFC PROGNOSIS T+48 SFC PROGNOSIS T+72 SFC PROGNOSIS T+96 SFC PROGNOSIS T+120 THICKNESS/GPH ANALYSIS SIG WINDS T+48	120/576 120/576 120/576 120/576 120/576	00/12 00/12 00/12 00/12 00/12	
0836/2036 0848/2048 0900/2100 0912/2112 0924/2124 0936/2136	SIG WINDS T+72 SIG WINDS T+96 SFC ANALYSIS THICKNESS/GPH ANALYSIS THICKNESS/GPH T+24 850MB SPOT WINDS T+24	120/576 120/576 120/576 120/576 120/576	00/12 00/12 06/18 00/12 00/12	
0948/2148 1000/2200 1012/2212 1024/2224 1036/2236 1048/2248	700MB SPOT WINDS T+24 SFC ANALYSIS SURFACE PROGNOSIS T+24 REDUCED VIS T+24 850MB WEBT/PPTN T+24 OAT AND TD CONTOUR T+24	120/576 120/576 120/576 120/576 120/576 120/576	00/12 06/18 06/18 06/18 06/18 06/18	
1100/2300 1112/2312 1124/2324 1136/2336 1148/2348	SFC ANALYSIS SURFACE PROGNOSIS T+24 SEA AND SWELL T+24 THICKNESS/GPH T+24 GALE WARNING SUMMARY	120/576 120/576 120/576 120/576	06/18 06/18 00/12 12/00	

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

OAT Outside Air Temperature TD Dewpoint Temperature

SCEXA TAFS South Coast Exercise Area Terminal Airfield Forecasts

(INFORMATION DATED OCT 25 2007)

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. Please read our *disclaimer* http://www.nws.noaa.gov/disclaimer.php.

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.

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 the **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 (see map above).

Marine Graphic Forecasts and Products

Graphic marine forecasts are produced by NWS for broadcast via radiofax

http://www.nws.noaa.gov/om/marine/radiofax.htm 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 for most U.S. coastal areas. See *Marine News - Gridded and Vector Data*

http://www.nws.noaa.gov/om/marine/newsgridded.htm. Gridded forecast data for offshore and high seas areas are forthcoming.

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/ 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

http://www.nws.noaa.gov/om/marine/fag.htm webpage. 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

http://www.nws.noaa.gov/om/marine/marine_map.htm homepages. NEXRAD Doppler Radar images may also be found on local cable channels and the webpages of local media including TV stations, radio stations and newspapers as well as others.

Ice Analysis, Forecasts and Iceberg Reports

Ice analyses, forecasts and iceberg reports are available from the National Ice Center http://www.natice.noaa.gov/, the U.S. Coast Guard's International Ice Patrol http://www.uscg.mil/lantarea/iip/home.html, and Iocal NWS marine forecast offices http://www.nws.noaa.gov/om/marine/marine_map.htm in areas such as Alaska http://pafc.arh.noaa.gov/ice.php where ice is a concern. Ice forecasts and observations are also made available as radiofax http://www.nws.noaa.gov/om/marine/radiofax.htm, text products http://www.nws.noaa.gov/om/marine/home.htm#text and computer generated model guidance.

Computer Generated Model Guidance

Computer generated model guidance products used by marine forecasters is available from the *Ocean Modeling Branch http://polar.ncep.noaa.gov/*, *National Centers for Environmental Prediction http://www.ncep.noaa.gov/*, the *Environmental Modeling Center http://www.emc.ncep.noaa.gov/*, the *National Ocean Service's Chesapeake Bay Operational Forecast System http://tidesandcurrents.noaa.gov/ofs/cbofs/cbofs.html*, and the *Great Lakes Forecasting System http://superior.eng.ohio-state.edu/*.

NCEP model data in graphic and gridded binary (GRIB) form may be found on *NCEP's N.O.M.A.D.S.* (*NOAA Operational Model Archive Distribution System) http://www.nomad3.ncep.noaa.gov/*, NOMADS3, NOMADS5 and NOMADS6 webservers.

The **Weather Charts http://weather.noaa.gov/fax/graph.shtml** webpage 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 Climatological 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/nsd/coastpilot.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 Geospatial-Intelligence Agency now makes available some of its *Pilot Charts http://www.nga.mil/portal/site/maritime/* on-line.

Foreign Marine Forecasts

Links to *foreign meteorological services http://www.wmo.int/pages/members/index_en.html*, and foreign marine meteorological services are available courtesy of the *World Meteorological Organization (WMO) http://www.wmo.int/pages/index_en.html*.

The WMO has also introduced an experimental *GMDSS Webpage http://weather.gmdss.org/* which, as a first step, provides links to worldwide meteorological bulletins and warnings issued for the high seas via SafetyNet.

Also try these Navy links *https://www.fnmoc.navy.mil* and *https://www.navo.navy.mil* and "Computer Generated Model Guidance" above for data which is outside the area of U.S. marine forecast responsibility.

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 http://www.ndbc.noaa.gov/* webpage. 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://oceanservice.noaa.gov/* that supports safe and cost-efficient navigation by providing ship masters and pilots with accurate real-time information required to avoid groundings and collisions. *Several National Ocean Service tide gages are also equipped with ancillary meteorological sensors http://tidesonline.nos.noaa.gov/geographic.html*. Regionally focused observation data may also be found on the webpages of local *NWS Forecast Offices http://www.nws.noaa.gov/om/marine/marine_map.htm*. 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/*.

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 http://www.vos.noaa.gov/* and data buoys. A variety of marine observations may also be viewed on the *National Ocean Service's nowCOAST Web Portal(BETA) 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.php?station=44017

WEBCAMS

The advent of the Internet has brought about a new type of observation system popular with beachgoers, surfers, and others - the WEBCAM which displays live images of current conditions. To find WEBCAMS for marine areas use your favorite Internet search engine to search for such key words as Beach Cams, Surf Cams, Coastal Cams, Ocean Cams, Port Cams and Cruise Cams. You may wish to refine your search by adding your geographic area to the search's key words.

Tide Predictions, Observations and Storm Surge Forecasts

Near real-time Water Level Observations, and Predicted Tide Information for the calendar year http://tidesandcurrents.noaa.gov/, are available from the National Ocean Service http://oceanservice.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 http://www.nws.noaa.gov/mdl/etsurge/* are available from the National Weather Service's *Meteorological Development Laboratory http://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 http://www.weather.gov/organization.php*.

The National Ocean Service's Chesapeake Bay Operational Forecast System (CBOFS)

http://tidesandcurrents.noaa.gov/ofs/cbofs/cbofs.html and The Port of New York and New Jersey Operational
Forecast System (NYOFS) http://tidesandcurrents.noaa.gov/nyofs.html have been created by NOS to provide the
maritime community with improved short-term predictions of water levels. Please be advised that these predictions are
based on a hydrodynamic model and, as such, should be considered as computer-generated forecast guidance.

For Emergency Responders and Planners

NOAA's Office of Response and Restoration, National Ocean Service

http://response.restoration.noaa.gov/index.php, offers a series of job aids and software to predict weather and ocean affects on the trajectory of hazardous materials such as oil spills. The information may be helpful for further applications as well.

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) http://www.vos.noaa.gov/* program for obtaining meteorological observations. Ship observations may also be found on the *NOAA's Forecast Systems Laboratory (choose maritime) http://www-frd.fsl.noaa.gov/mesonet/, CoolWX http://coolwx.com/buoydata/*, and *SailWX.info http://www.sailwx.info, 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)** see http://www.nws.noaa.gov/om/marine/voluntary.htm which are of benefit to the marine community.

Marine Webpages

The Internet contains a great number of webpages of interest to the mariner. Visit our *Links http://www.nws.noaa.gov/om/marine/mlinks.htm* page 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 Weather Log Magazine, and our listing of Worldwide Marine Radiofacsimile Broadcast Schedules.

Internet Access for Mariners

Internet at sea can be problematic unless you stay within cellular telephone range of shore. The maximum speed for cellular telephones is typically 14.4 Kbaud, however, a number of cellular service providers are now offering enhanced services with speeds in the range of 56 Kbaud - 144 Kbaud. Terrestrial wireless Internet services such as those provided by GoAmerica, TeleSea, and Motient, 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, Iridium, Globalstar, ACeS, tracNet/DirecPC, Mobile Satellite Ventures, Boatracs, Orbcomm, Digital Seas International, and MTN are available, however, costs are generally greater. Several companies offer e-mail services designed to optimize satellite connectivity including MAILASAIL, MarineNet, OCENS, Telaurus, UUPLUS and XGate. 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 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. See http://www.fags.org/fags/internetservices/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.

If you have an HF marine radio, E-mail service is available from companies such as Sailmail, SeaMail, CruiseEmail, Global Marine Networks, MarineNet Wireless, Kielradio, Globe Wireless and Mobile Marine Radio (WLO)/Telaurus. 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 webpage for the most popular marine text forcasts compatible with many PDA's 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 forecasts.

A WAP webpage for compatible cellphones containing marine and public forecasts may be found at: **cell.weather.gov** NOW WITH GREATLY ENHANCED MARINE LINKS (includes a capability to view the forecast for any zip/city and radar images).

A low bandwidth webpage containing marine and public forecasts intended for mobile devices may be found at: http://mobile.weather.gov/ (includes a capability to view the forecast for any zip/city and radar images).
Note....WAP/WML webpages require a WAP-capable cellphone 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.

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

National Weather Service marine text forecasts, radiofax charts and buoy observations are available via e-mail. 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 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 see http://weather.noaa.gov/pub/fax/ftpmail.txt.

Send an e-mail to: ftpmail@ftpmail.nws.noaa.gov

Subject line: Put anything you like

Body: help

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/

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

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 Servicehttp://www.nws.noaa.gov/om/marine/wxwire.htm, Computer Sciences Corporation http://dynis.fedcsc.com/contracts/other/nwws/default.htm broadcasts the entire Weather Wire product stream on the Internet as a commercial service http://dynis.fedcsc.com/contracts/other/nwws/options.htm.

Watches, Warnings and Advisories Using RSS and CAP XML Based Formats

The National Weather Service provides access to watches, warnings and advisories for land areas http://www.weather.gov/alerts/, and for http://www.weather.gov/alerts/#rss and CAP/XML http://www.weather.gov/alerts/#cap to aid the automated dissemination of this information. Planning is in progress to extend this to marine warnings.

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/

nttp://weatner.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.weather.gov/view/validProds.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://tgftp.nws.noaa.gov/fax/

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 Status Reports http://www.nws.noaa.gov/om/cm/status.html, and NWS Telecommunication Operations Center (TOC) Data Management Change Notices http://www.nws.noaa.gov/datamgmt/notices.shtml webpages. See http://www.nws.noaa.gov/om/marine/recent.htm for a summary of recent changes of most interest to mariners and coastal residents.

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:

*

* marine.weather@noaa.gov 301-713-1677 x 128

*

**** IMPORTANT NOTICES ****

Effective January 08, 2008, the address of the FTPMAIL service changed from ftpmail@weather.noaa.gov to ftpmail@ftpmail.nws.noaa.gov.

If you restrict incoming e-mail as a means of preventing spam, you must configure your e-mail system to allow mail from ftpmail@ftpmail.nws.noaa.gov

Read the help file carefully - 99% of errors using FTPMAIL are simple typo's, incorrect capitalization, failure to send in plain text format, leading or trailing spaces, or failure to set up any spam filters properly.

These instructions are subject to revision....download frequently.

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

CAUTION - READ THIS HELP FILE CAREFULLY - 99% OF ERRORS USING FTPMAIL ARE SIMPLE TYPO'S, INCORRECT CAPITALIZATION, FAILURE TO SEND IN PLAIN TEXT FORMAT, LEADING OR TRAILING SPACES, OR FAILURE TO SET UP ANY SPAM FILTERS PROPERLY. 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.

tqftp.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 quaranteed.

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) .qif 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@ftpmail.nws.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

```
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
                    (List of FTPMAIL commands)
get ftpcmd.txt
                    (TIFF suggestions)
get rfaxtif.txt
get rfaxatl.txt
                    (Atlantic radiofax file directory)
                    (Pacific radiofax file directory)
get rfaxpac.txt
                    (Gulf of Mexico and Trop Atl radiofax file dir)
get rfaxmex.txt
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
get marine3.txt
                    (Coastal forecasts text file directory)
get marine4.txt
                    (Offshore forecasts by zone directory)
                    (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: ftpmail@ftpmail.nws.noaa.gov

Subject Line: Put anything you like

Body: open cd data

cd data
cd raw
cd fz

get fznt01.kwbc.hsf.at1.txt

quit

CAUTION - READ THIS HELP FILE CAREFULLY - 99% OF ERRORS USING FTPMAIL ARE SIMPLE TYPO'S, INCORRECT CAPITALIZATION, FAILURE TO SEND IN PLAIN TEXT FORMAT, OR FAILURE TO SET UP ANY SPAM FILTERS PROPERLY. 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 been reported by users of Hotmail. (This may now be fixed)

If you restrict incoming e-mail as a means of preventing spam, you must program your e-mail system to allow messages from: ftpmail@ftpmail.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 does not have any leading and/or trailing space(s) or you may 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.

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/

If you have access to the Internet, be certain to check out the following webpages. See these pages for further links.

http://www.nws.noaa.gov
http://www.nws.noaa.gov/om/marine/home.htm
cell.weather.gov
mobile.weather.gov

NWS Homepage NWS Marine Page Cellphone page Mobile Page

Author: Timothy Rulon, Marine and Coastal Weather Services Branch $\mbox{W}/\mbox{OS21}$

National Weather Service Last Modified Aug 27, 2008

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

```
***FTPMAIL commands for ftpmail@ftpmail.nws.noaa.gov FTPMAIL server***

**** IMPORTANT NOTICES ****
```

Effective January 08, 2008, the address of the FTPMAIL service changed from ftpmail@ftpmail.nws.noaa.gov to ftpmail@ftpmail.nws.noaa.gov. If you restrict incoming e-mail as a means of preventing spam, you must configure your e-mail system to allow mail from ftpmail@ftpmail.nws.noaa.gov

Read the help file carefully - 99% of errors using FTPMAIL are simple typo's, incorrect capitalization, failure to send in plain text format, leading or trailing spaces, or failure to set up any spam filters properly.

These instructions are subject to revision....download frequently.

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@ftpmail.nws.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 (tgftp.nws.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 (tgftp.nws.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

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, Marine and Coastal Weather Services Branch W/OS21

National Weather Service Last Modified Sep 12, 2008

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

ftp://tgftp.nws.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, Marine and Coastal Weather Services Branch W/OS21
        National Weather Service
        Last Modified Aug 27, 2008
        Document URL: http://weather.noaa.gov/pub/fax/rfaxtif.txt
                      ftp://tqftp.nws.noaa.gov/fax/rfaxtif.txt
```

NATIONAL WEATHER SERVICE RADIOFAX PRODUCTS for the Western Atlantic Ocean

**** IMPORTANT NOTICES ****

Effective January 08, 2008, the address of the FTPMAIL service changed from ftpmail@weather.noaa.gov to ftpmail@ftpmail.nws.noaa.gov.

If you restrict incoming e-mail as a means of preventing spam, you must configure your e-mail system to allow mail from ftpmail@ftpmail.nws.noaa.gov

Read the help file carefully - 99% of errors using FTPMAIL are simple typo's, incorrect capitalization, failure to send in plain text format, leading or trailing spaces, or failure to set up any spam filters properly.

These instructions are subject to revision....download frequently.

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@ftpmail.nws.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@ftpmail.nws.noaa.gov

Subject Line: Put anything you like Body: help

body. neip	
WIND/SEAS CHARTS	FILE NAME
12Z Sea State Analysis, 10E-95W Northern Hemisphere 00Z Wind/Wave Analysis, 40W-98W Northern Hemisphere 12Z Wind/Wave Analysis, 40W-98W Northern Hemisphere Wind/Wave Analysis, (Most Current) 24HR Wind/Wave Chart VT00Z Forecast 40W-98W N. Hemisphere 24HR Wind/Wave Chart VT12Z Forecast 40W-98W N. Hemisphere 24HR Wind/Wave Chart Forecast (Most Current) 48HR Wind/Wave VT00Z Forecast 10E-95W Northern Hemisphere 48HR Wind/Wave VT12Z Forecast 10E-95W Northern Hemisphere 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 Wave Chart VT12Z Forecast 10E-95W N. Hemisphere 96HR Wave Period VT12Z Forecast 10E-95W N. Hemisphere	PJAA99.TIF PWAA88.TIF PWAA89.TIF PWAA90.TIF PWAE98.TIF PWAE99.TIF PWAE10.TIF PJAI98.TIF PJAI99.TIF PJAI88.TIF PJAI89.TIF PJAI89.TIF PJAI89.TIF PJAI89.TIF PJAI89.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 2, 40W-95W N. Hemisphere 12Z Surface Analysis Chart, Part 1, 10E-45W 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 1, (Most Current) Surface Analysis Chart, Part 1, (Most Current) 24HR Surface Chart VT00Z Forecast 40W-98W Northern Hemisphere 24HR Surface Chart VT12Z Forecast 40W-98W Northern Hemisphere 24HR Surface Chart VT12Z Forecast 10E-95W Northern Hemisphere 48HR Surface Chart VT12Z Forecast 10E-95W Northern Hemisphere 48HR Surface Chart Forecast (Most Current) 96HR Surface Chart VT12Z Forecast 10E-95W Northern Hemisphere	PYAA10.TIF PYAB01.TIF PYAC01.TIF PYAC01.TIF PYAD01.TIF PYAA01.TIF PYAA02.TIF PYAA03.TIF PYAA05.TIF PYAA05.TIF PYAA06.TIF PYAA07.TIF PYAA07.TIF PYAA11.TIF PYAA11.TIF PYAA11.TIF PYAE00.TIF PPAE01.TIF PPAE01.TIF PDAE10.TIF QDTM85.TIF QDTM86.TIF QDTM10.TIF 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 Forecast (Most Current)	PPAA50.TIF PPAA51.TIF PPAA10.TIF PPAE50.TIF PPAE51.TIF PPAE51.TIF PPAG50.TIF PPAG51.TIF PPAG11.TIF PPAI50.TIF PPAI50.TIF
96HR 500MB Chart VT12Z Forecast 10E-95W Northern Hemisphere	PPAM50.TIF

TROPICAL CYCLONE CHARTS

Tropical	Cyclone	Danger	Area*	VT03,	05N-60N,	00W-100W	PWEK89.TIF
Tropical	Cyclone	Danger	Area*	VT09,	05N-60N,	00W-100W	PWEK90.TIF
Tropical	Cyclone	Danger	Area*	VT15,	05N-60N,	00W-100W	PWEK91.TIF
Tropical	Cyclone	Danger	Area*	VT21,	05N-60N,	00W-100W	PWEK88.TIF
Tropical	Cyclone	Danger	Area*	(Most	Current;)	PWEK11.TIF

SATELLITE IMAGERY

00Z GOES IR Satellite Image, West Atlantic	evnt00.jpg
06Z GOES IR Satellite Image, Atlantic	evnt06.jpg
12Z GOES IR Satellite Image, West Atlantic	evnt12.jpg
18Z GOES IR Satellite Image, Atlantic	evnt18.jpg
W Atlantic or Atlantic (Most Current)	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)	PLAZ01.TIF
Radiofax Schedule Part 2 (Boston, MA)	PLAZ02.TIF
Radiofax Schedule (DOS Text Version)	hfmarsh.txt
Request for Comments	PLAZ03.TIF
Product Notice Bulletin	PLAZ04.TIF
Test Pattern	PZZZ94.TIF
Internet File Names (This file)	rfaxatl.txt

* Tropical Cyclone Danger Area chart replaced by $48 \, \mathrm{HR}$ High Wind/Wave Warning chart Dec 01 - May 14 Valid times 00z,06z,12z and 18z, Map area 05N-40N, 35W-100W

Tropical cyclone charts also broadcast from New Orleans, LA

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
http://www.nws.noaa.gov/om/marine/home.htm
cell.weather.gov
mobile.weather.gov

NWS Homepage
NWS Marine Page
Cellphone page
Mobile Page

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

Last Modified Nov 14, 2008

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

**** IMPORTANT NOTICES ****

Effective January 08, 2008, the address of the FTPMAIL service changed from ftpmail@weather.noaa.gov to ftpmail@ftpmail.nws.noaa.gov.

If you restrict incoming e-mail as a means of preventing spam, you must configure your e-mail system to allow mail from ftpmail@ftpmail.nws.noaa.gov

Read the help file carefully - 99% of errors using FTPMAIL are simple typo's, incorrect capitalization, failure to send in plain text format, leading or trailing spaces, or failure to set up any spam filters properly.

These instructions are subject to revision....download frequently.

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@ftpmail.nws.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@ftpmail.nws.noaa.gov

Subject Line: Put anything you like

Body: help

FILE WIND/WAVE CHARTS NAME 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) PWBA90.TIF 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) PWBE10.TIF 48HR Wind/Wave Forecast VT00Z 20N-70N, 115W-135E PJBI98.TIF 48HR Wind/Wave Forecast VT12Z 20N-70N, 115W-135E PJBI99.TIF 48HR Wind Wave Forecast (Most Current) PJBI10.TIF 48HR Wave Period/Swell Direction VT00Z 20N-70N, 115W-135E PJBI88.TIF 48HR Wave Period/Swell Direction VT12Z 20N-70N, 115W-135E PJBI89.TIF 48HR Wave Period/Swell Direction (Most Current) PJBI20.TIF 96HR Wind/Wave Forecast 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 # These charts will no longer be available after Nov 03, 2008 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	PYEB88.TIF
@ U.S./Tropical Surface Analysis (Most Current)	PYEB11.TIF
@24HR Tropical Surface ForecastVT00,20S-30N,80W-145W	PYFE79.TIF
@24HR Tropical Surface ForecastVT12,20S-30N,80W-145W	PYFE80.TIF
@24HR Tropical Surface Forecast(Most Current);	PYFE10.TIF
@*48HR Tropical Surface ForecastVT00,20S-30N,80W-145W	PYFI81.TIF
@*48HR Tropical Surface ForecastVT12,20S-30N,80W-145W	PYFI82.TIF
@*48HR Tropical Surface Forecast(Most Current);	PYFI10.TIF
@72HR Tropical Surface ForecastVT00,20S-30N,80W-145W	PYFK83.TIF
@72HR Tropical Surface ForecastVT12,20S-30N,80W-145W	PYFK84.TIF
@72HR Tropical Surface Forecast (Most Current);	PYFK10.TIF

^{*} Transmited beginning Nov 03, 2008 1840z

UPPER AIR CHARTS

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 48HR High Wind/Wave Warning chart Dec 01 - May 14 Valid times 00z,06z,12z and 18z

SEA SURFACE TEMPERATURES

Pacific SST Chart	40N-53N,	E of	136W	PTBA88.TIF
Pacific SST Chart	23N-42N,	E of	150W	PTBA89.TIF

	SATE	CLLITE	: IN	/IAGERY							
	@002	Z GOES	S IF	R Satellite	e Image	, Tropica	l East	Pac	eific		evpn02.jpg
06Z GOES IR Satellite Image, Tropical East Pacific									evpn07.jpg		
	@122	Z GOES	S IF	R Satellite	e Image	, Tropica	l East	Pac	ific		evpn04.jpg
	18Z	GOES	IR	Satellite	Image,	Tropical	East	Paci	fic		evpn08.jpg
		GOES	IR	Satellite	Image,	Tropical	East	Pac	(MOST	CURRENT)	evpn10.jpg
	@062	Z GOES	S IF	R Satellite	e Image	, East Pa	cific				evpn03.jpg
	12Z	GOES	IR	Satellite	Image,	East Pac	ific				evpn13.jpg
@18Z GOES IR Satellite Image, East Pacific								evpn14.jpg			
21Z GOES VISIBLE Satellite Image, East Pacific									evpn00.jpg		
		GOES	Sat	tellite Ima	age, Eas	st Pacifi	c (MOS	ST CU	JRRENT)	evpn98.jpg
	00Z	GOES	IR	Satellite	Image,	Pacific					evpn01.jpg
	06Z	GOES	IR	Satellite	Image,	Pacific					evpn06.jpg
	12Z	GOES	IR	Satellite	Image,	Pacific					evpn12.jpg
	18Z	GOES	IR	Satellite	Image,	Pacific					evpn18.jpg
		GOES	IR	Satellite	Image,	Pacific	(MOST	CURR	ENT)		evpn99.jpg

SCHEDULE INFORMATION

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

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

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

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
cell.weather.gov Cellphone page
mobile.weather.gov Mobile Page

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

Last Modified Nov 07, 2008

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

NATIONAL WEATHER SERVICE RADIOFAX PRODUCTS

for the Gulf of Mexico, Caribbean, Tropical Atlantic and Tropical E Pacific

**** IMPORTANT NOTICES ****

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

Assigned frequencies 4317.9, 8503.9 12789.9, 17146.4 kHz

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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

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PAY ATTENTION TO CAPITALIZATION:

Example using FTPMAIL:

Send an e-mail to: ftpmail@ftpmail.nws.noaa.gov

Subject line: Put anything you like

Body: open

cd fax

get PWEE11.TIF get PYEAll.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@ftpmail.nws.noaa.gov

Subject Line: Put anything you like

Body: help WIND/WAVE CHARTS FILE NAME

007 G Gb-b- 71 0N 21N 25N 100N	D T D 7 O O O O T D
00Z Sea State Analysis, 0N-31N, 35W-100W	PJEA88.TIF
12Z Sea State Analysis, ON-31N, 35W-100W	PJEA90.TIF
Sea State Analysis (Most Current)	PJEA11.TIF
24HR Wind/Wave Forecast VT00, 0N-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
+36HR Wind/Wave Forecast VT12, ON-31N, 35W-100W	PWED98.TIF
48HR Wind/Wave Forecast VT00, 0N-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	PJEI88.TIF
48HR Wave Period/Swell Dir Forecast VT12, ON-31N, 35W-100W	PJEI89.TIF
48HR Wave Period/Swell Direction Forecast (Most Current)	PJEI11.TIF
72HR Wind/Wave Forecast VT00, 0N-31N, 35W-100W	PJEK88.TIF
72HR Wind/Wave Forecast VT12, 0N-31N, 35W-100W	PJEK89.TIF
72HR Wind/Wave Forecast (Most Current)	PJEK11.TIF
72HR Wave Period/Swell Dir Forecast VT00, ON-31N, 35W-100W	PKEK88.TIF

- # These charts will no longer be available after Nov 03, 2008 1800z
- + New chart available beginning Nov 03, 2008 1800z

SURFACE CHARTS

@00Z U.S./Tropical Surface Analysis (W Half) 5S-50N,55W-125W	PYEB86.TIF
@06Z U.S./Tropical Surface Analysis (W Half) 5S-50N,55W-125W	PYEB87.TIF
@12Z U.S./Tropical Surface Analysis (W Half) 5S-50N,55W-125W	PYEB85.TIF
@18Z U.S./Tropical Surface Analysis (W Half) 5S-50N,55W-125W	PYEB88.TIF
@ U.S./Tropical Surface Analysis (W Half) (Most Current)	PYEB11.TIF
00Z Tropical Surface Analysis (E Half) 5S-50N, 0W-70W	PYEA86.TIF
06Z Tropical Surface Analysis (E Half) 5S-50N, 0W-70W	PYEA87.TIF
12Z Tropical Surface Analysis (E Half) 5S-50N, OW-70W	PYEA85.TIF
18Z Tropical Surface Analysis (E Half) 5S-50N, OW-70W	PYEA88.TIF
Tropical Surface Analysis (E Half) (Most Current)	PYEA11.TIF
24HR Tropical Surface Forecast(E Half)VT00,00N-31N, 35W-100W	PYEE79.TIF
24HR Tropical Surface Forecast(E Half)VT12,00N-31N, 35W-100W	PYEE80.TIF
Tropical Surface Forecast(Most Current)	PYEE10.TIF
48HR Tropical Surface Forecast(E Half)VT00,00N-31N, 35W-100W	PYEI81.TIF
48HR Tropical Surface Forecast(E Half)VT12,00N-31N, 35W-100W	PYEI82.TIF
Tropical Surface Forecast(Most Current)	PYEI10.TIF
72HR Tropical Surface Forecast(E Half)VT00,00N-31N, 35W-100W	PYEK83.TIF
72HR Tropical Surface Forecast(E Half)VT12,00N-31N, 35W-100W	PYEK84.TIF
Tropical Surface Forecast(Most Current)	PYEK10.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	PWEK89.TIF
Tropical	Cyclone	Danger	Area*	VT09,	05N-60N,	00W-100W	PWEK90.TIF
Tropical	Cyclone	Danger	Area*	VT15,	05N-60N,	00W-100W	PWEK91.TIF
Tropical	Cyclone	Danger	Area*	VT21,	05N-60N,	00W-100W	PWEK88.TIF
Tropical	Cyclone	Danger	Area*	(Most	Current)	PWEK11.TIF

16Z High Seas Forecast 7N-31N, 35W-98W, In English	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 Product Notice Bulletin Test Chart Internet File Names, (This file)	PLEZ01.TIF hfgulf.txt PLEZ02.TIF PLEZ03.TIF PZZZ95.TIF rfaxmex.txt

* Tropical Cyclone Danger Area chart replaced by $48 \, \mathrm{HR}$ High Wind/Wave Warning chart Dec 01 - May 14 Valid times 00z,06z,12z and 18z, Map area 05N-40N, 35W-100W

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http://www.nws.noaa.gov NWS Homepage
http://www.nws.noaa.gov/om/marine/home.htm NWS Marine Page
cell.weather.gov Cellphone page
mobile.weather.gov Mobile Page

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

National Weather Service Last Modified Nov 14, 2008

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

**** IMPORTANT NOTICES ****

Effective Tuesday December 2, 2008 the Anchorage Forecast Office will terminate production and dissemination of the Coastal Marine Forecast Tables. For questions regarding this notice please contact: bob.hopkins@noaa.gov

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These instructions are subject to revision....download frequently.

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

Assigned frequencies 2054, 4298, 8459, 12412.5 kHz

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.TIF files now also available as .gif files

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Example using FTPMAIL:

Send an e-mail to: ftpmail@ftpmail.nws.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@ftpmail.nws.noaa.gov

Subject Line: Put anything you like

Body: help

	FILE
WIND/WAVE CHARTS	NAME
OOZ 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) 48HR Wave Period/Swell Direction VT00Z 20N-70N, 115W-135E 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	PJBA99.TIF PJBE88.TIF PJBE89.TIF PJBE10.TIF PJB199.TIF PJB199.TIF PJB188.TIF PJB189.TIF PJB189.TIF PJB189.TIF PJBM98.TIF PJBM98.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) 96HR Surface Chart Forecast VT12Z	PYCA00.TIF PYCA01.TIF PYCA02.TIF PYCA03.TIF PYCA10.TIF PYBE00.TIF PYBE01.TIF PYBE10.TIF PWB199.TIF PWB198.TIF PWB199.TIF PWB199.TIF
00Z 500 MB Analysis 20N-70N 115W-135E 12Z 500 MB Analysis 20N-70N, 115W-135E	PPBA50.TIF PBBA51.TIF PPBA10.TIF PPBE50.TIF PPBE51.TIF PPBE11.TIF PPBI50.TIF PPBI51.TIF PPBI51.TIF PPBI50.TIF

SEA SURFACE TEMPERATURES

SATELLITE IMAGERY

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

ICE CHARTS

Sea Ice Analysis	PTCA89.TIF
5 Day Sea Ice Forecast	PTCO89.TIF
Cook Inlet Sea Ice Analysis	PTCA87.TIF

OTHER PRODUCTS

AK Coastal Forecast Tables (To be terminated Dec 02, 2008) PLBZ00.TIF

SCHEDULE INFORMATION and MISCELLANEOUS

Radiofax Schedule Kodiak, AK;	PLBZ05.TIF
Radiofax Schedule (DOS Text Version)	hfak.txt
Request for Comments	xxxxxxx.xxx
Product Notice Bulletin	xxxxxxx.xxx
Test Pattern;	xxxxxxx.xxx
Radiofacsimile Symbols and Contractions	PLBZ06.TIF
Internet File Names; (This file)	rfaxak.txt

xxxxxx.xxx = Currently unavailable

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

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
cell.weather.gov Cellphone page
mobile.weather.gov Mobile Page

Author: Tim Rulon, NWS Marine And Coastal Weather Services Branch $\mbox{W}/\mbox{OS}21$

Last Modified Nov 14, 2008

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

**** IMPORTANT NOTICES ****

On Nov 03, 2008 several radiofax charts produced by the Tropical Prediction Center/National Hurricane Center and broadcast from New Orleans, Pt. Reyes and Honolulu be based on information from different model run times. A 36 hour wind/wave chart will be added to the New Orleans broadcast. The new broadcast schedules may be found at http://weather.noaa.gov/fax/marine.shtml and will be broadcast on-air beginning on or about Oct 27, 08. This change is to better align workflow to model production.

Effective January 08, 2008, the address of the FTPMAIL service changed from ftpmail@weather.noaa.gov to ftpmail@ftpmail.nws.noaa.gov.

If you restrict incoming e-mail as a means of preventing spam, you must configure your e-mail system to allow mail from ftpmail@ftpmail.nws.noaa.gov

Read the help file carefully - 99% of errors using FTPMAIL are simple typo's, incorrect capitalization, failure to send in plain text format, leading or trailing spaces, or failure to set up any spam filters properly.

These instructions are subject to revision....download frequently.

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://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

xxxxxx (Not yet available from these directories)

.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@ftpmail.nws.noaa.gov

Put anything you like Subject line:

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@ftpmail.nws.noaa.gov Subject Line: Put anything you like

Subject Line:

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	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

These charts will no longer be available after Nov 03, 2008 1840z

WIND/WAVE CHARTS - 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) PWBA90.TIF
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)
                                                                           PWBE10.TIF
48HR Wind/Wave Forecast VT00Z 20N-70N, 115W-135E
                                                                           PJBI98.TIF
48HR Wind/Wave Forecast VT12Z 20N-70N, 115W-135E
                                                                           PJBI99.TIF
48HR Wind Wave Forecast (Most Current)
                                                                            PJBI10.TIF
48HR Wave Period/Swell Direction VT00Z 20N-70N, 115W-135E PJBI88.TIF @48HR Wave Period/Swell Direction VT12Z 20N-70N, 115W-135E PJBI89.TIF
48HR Wave Period/Swell Direction (Most Current) PJBI20.TIF
96HR Wind/Wave Forecast VT12Z 20N-70N, 115W-135E PJBM98.TIF
96HR Wave Period/Swell Direction VT12Z 20N-70N, 115W-135E PJBM88.TIF
```

SURFACE CHARTS - CENTRAL PACIFIC

@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	PPBA89.TIF
12Z Pacific Surface Analysis EQ-50N, 110W-130E	PPBA90.TIF
18Z Pacific Surface Analysis EQ-50N, 110W-130E	PPBA91.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	PWFA93.TIF
Pacific Streamline Analysis (Most Current)	PWFA11.TIF
@\$00Z Tropical Surface Analysis 40S-40N, 100W-120E	xxxxxx.TIF
@\$06Z Tropical Surface Analysis 40S-40N, 100W-120E	xxxxxx.TIF
@\$12Z Tropical Surface Analysis 40S-40N, 100W-120E	xxxxxx.TIF
@\$18Z Tropical Surface Analysis 40S-40N, 100W-120E	xxxxxx.TIF
@\$ Tropical Surface Analysis (Most Current)	QYFA99.TIF
03Z Significant Cloud Features 30S-50N, 110W-160E	PBFA99.TIF
15Z Significant Cloud Features 30S-50N, 110W-160E	PBFC99.TIF
Significant Cloud Features (Most Current)	PBFA11.TIF
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
@\$24HR Wind/Stream Forecast VT00Z 30S-50N, 100W-120E	QWFI99.TIF
@\$48HR Wind/Stream Forecast VT00Z 30S-50N, 100W-120E	QWFQ99.TIF
48HR Pacific Surface Forecast VT00Z 30S-50N 110W-130E	PYFI87.TIF
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	PYFK87.TIF
72HR Pacific Surface Forecast VT12Z 30S-50N 110W-130E	PYFK88.TIF
72HR Pacific Surface Forecast (Most Current)	PYFK11.TIF

\$ 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
06Z	East	Pacific	Surface	Analysis	20S-30N,	E	of	145W	PYFA97.TIF
12Z	East	Pacific	Surface	Analysis	20S-30N,	\mathbf{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
East Pacific Surface Analysis Most Current

@00Z U.S./Tropical Surface Analysis 5S-50N,55W-125W

@06Z U.S./Tropical Surface Analysis 5S-50N,55W-125W

@12Z U.S./Tropical Surface Analysis 5S-50N,55W-125W

@18Z U.S./Tropical Surface Forecast VT00 20S-30N, E of 145W

PYEB11.TIF

24HR Tropical Surface Forecast VT00 20S-30N, E of 145W

PYFE79.TIF
24HR Tropical Surface Forecast (Most Current)
48HR Tropical Surface Forecast VT00 20S-30N, E of 145W PYF181.TIF
PYF182.TIF
48HR Tropical Surface Forecast (Most Current)

72HR Tropical Surface Forecast VT00 20S-30N, E of 145W

72HR Tropical Surface Forecast VT12 20S-30N, E of 145W

PYFK83.TIF

72HR Tropical Surface Forecast VT12 20S-30N, E of 145W

PYFK84.TIF

PYFK10.TIF
SURFACE CHARTS - NORTH PACIFIC
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
                                                                                                      PYBAU8.TIF
PYBA90.TIF
PYBA91.TIF
PPBE00.TIF
PPBE01.TIF
       Surface Analysis, Part 1 (Most Current)
       Surface Analysis, Part 2 (Most Current)
@24HR Surface Forecast VT10Z 18N-62W, E of 157W @24HR Surface Forecast VT12Z 18N-62W, E of 157W
                                                                                                         PPBE10.TIF
PWBI98.TIF
PWBI99.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)
                                                                                                                PWBI10.TIF
96HR Surface Forecast VT12Z 20N-70W, 115W-135E
                                                                                                                PWBM99.TIF
TROPICAL CYCLONE CHARTS - PACIFIC
72 HR Tropical Cyclone Danger Area VT 03Z 0N-40N, 80W-170E PWFK03.TIF
72 HR Tropical Cyclone Danger Area VT 09Z 0N-40N, 80W-170E PWFK09.TIF
72 HR Tropical Cyclone Danger Area VT 15Z 0N-40N, 80W-170E PWFK15.TIF
72 HR Tropical Cyclone Danger Area VT 21Z 0N-40N 00W 17CC
72 HR Tropical Cyclone Danger Area (Most Current)
                                                                                                               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
00Z Eastern Pacific Satellite Image 05S-55N, 110W-155E evpz00.jpg
06Z Eastern Pacific Satellite Image 05S-55N, 110W-155E evpz06.jpg
12Z Eastern Pacific Satellite Image 05S-55N, 110W-155E evpz12.jpg
18Z Eastern Pacific Satellite Image 05S-55N, 110W-155E evpz12.jpg
Eastern Pacific Satellite Image (Most Current) evpz11.jpg
00Z Southwest Pacific Satellite Image 40S-05N, 130W-165E evps00.jpg
06Z Southwest Pacific Satellite Image 40S-05N, 130W-165E evps06.jpg
12Z Southwest Pacific Satellite Image 40S-05N, 130W-165E evps06.jpg
```

1	18Z Southwest Pacific Satellite Image 40S-05N, 130W-165E	evps18.jpg
	Southwest Pacific Satellite Image (Most Current)	evps11.jpg
(200Z Tropical East Pacific Satellite Image 20S-40N, E of 145W	evpn02.jpg
(06Z Tropical East Pacific Satellite Image 20S-40N,E of 145W	evpn07.jpg
(212Z Tropical East Pacific Satellite Image 20S-40N, E of 145W	evpn04.jpg
1	18Z Tropical East Pacific Satellite Image 20S-40N,E of 145W	evpn08.jpg
	Tropical East Pacific Satellite Image (MOST CURRENT)	evpn10.jpg
(@00Z Pacific Satellite Image 05N-55N, E of 180W	evpn01.jpg
(06Z Pacific Satellite Image 05N-55N, E of 180W	evpn06.jpg
(212Z Pacific Satellite Image 05N-55N, E of 180W	evpn12.jpg
-	18Z Pacific Satellite Image 05N-55N, E of 180W	evpn18.jpg
	Pacific Satellite Image (MOST CURRENT)	evpn99.jpg

SCHEDULE INFORMATION

Radiofax Schedule (Honolulu, HI) Part I	PLBZ07.TIF
Radiofax Schedule (Honolulu, HI) Part II	PLBZ09.TIF
Radiofax Schedule (DOS Text Version)	hfhi.txt
Test/Map Symbols/General Notice	PLBZ08.TIF
Internet File Names (This file)	rfaxhi.txt

@ Not transmitted via Honolulu radiofax but listed here for convenience

Many of these charts also Broadcast via Pt. Reyes, CA and Kodiak, AK

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
cell.weather.gov Cellphone page
mobile.weather.gov Mobile Page

Author: Timothy Rulon, Marine and Coastal Weather Services Branch W/OS21 National Weather Service Last Modified Oct 28, 2008

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

**** IMPORTANT NOTICES ****

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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@ftpmail.nws.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@ftpmail.nws.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

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@ftpmail.nws.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@ftpmail.nws.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 fznt21.kwbc.off.nt1.txt Mid-Atlantic fznt22.kwbc.off.nt2.txt 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 fzak61.pafc.off.aer.txt Bering Sea fzak62.pafc.off.alu.txt Hawaii fzhw60.phfo.off.hfo.txt These files may be found in directory: ftp://tgftp.nws.noaa.gov/data/raw/fz/

Example:

Send an e-mail to: ftpmail@ftpmail.nws.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

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

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
cell.weather.gov
mobile.weather.gov

NWS Marine Page Cellphone page Mobile Page

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

National Weather Service Last Modified Aug 27, 2008

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

NATIONAL WEATHER SERVICE MARINE TEXT PRODUCTS HURRICANE PRODUCTS

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Send an e-mail to: ftpmail@ftpmail.nws.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@ftpmail.nws.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
Tropical Cyclone Discussion (Storm #3)
                                          /storm 3/discussion.txt
Tropical Cyclone Discussion (Storm #4)
                                          /storm_4/discussion.txt
Tropical Cyclone Discussion (Storm #5)
                                          /storm_5/discussion.txt
Public Advisory (Storm #1)
                                          /storm_1/advisory.txt
Public Advisory (Storm #2)
                                          /storm_2/advisory.txt
Public Advisory (Storm #3)
                                          /storm_3/advisory.txt
Public Advisory (Storm #4)
                                          /storm_4/advisory.txt
Public Advisory (Storm #5)
                                          /storm_5/advisory.txt
Tropical Depression Forecast (Storm #1)
                                          /storm 1/technical advisory.txt
Tropical Depression Forecast (Storm #2)
                                          /storm 2/technical advisory.txt
                                          /storm_3/technical_advisory.txt
Tropical Depression Forecast (Storm #3)
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
```

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)
                                          /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
Tropical Cyclone Discussion (Storm #3)
                                          /storm_3/discussion.txt
Tropical Cyclone Discussion (Storm #4)
                                          /storm 4/discussion.txt
Tropical Cyclone Discussion (Storm #5)
                                          /storm_5/discussion.txt
Public Advisory (Storm #1)
                                          /storm_1/advisory.txt
Public Advisory (Storm #2)
                                          /storm_2/advisory.txt
Public Advisory (Storm #3)
                                          /storm_3/advisory.txt
Public Advisory (Storm #4)
                                          /storm_4/advisory.txt
Public Advisory (Storm #5)
                                          /storm_5/advisory.txt
Tropical Depression Forecast (Storm #1)
                                          /storm_1/technical_advisory.txt
Tropical Depression Forecast (Storm #2)
                                          /storm_2/technical_advisory.txt
Tropical Depression Forecast (Storm #3)
                                          /storm_3/technical_advisory.txt
Tropical Depression Forecast (Storm #4)
                                          /storm_4/technical_advisory.txt
Tropical Depression Forecast (Storm #5)
                                          /storm_5/technical_advisory.txt
RECON Plan
                              TBD
```

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

CENTRAL PACIFIC HURRICANE PRODUCTS

These files may be found in directory: ftp://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
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
Tropical Cyclone Discussion (Storm #3)
                                          /storm_3/discussion.txt
                                          /storm_4/discussion.txt
Tropical Cyclone Discussion (Storm #4)
Tropical Cyclone Discussion (Storm #5)
                                          /storm 5/discussion.txt
Public Advisory (Storm #1)
                                          /storm_1/advisory.txt
Public Advisory (Storm #2)
                                          /storm_2/advisory.txt
Public Advisory (Storm #3)
                                          /storm 3/advisory.txt
Public Advisory (Storm #4)
                                          /storm 4/advisory.txt
Public Advisory (Storm #5)
                                          /storm_5/advisory.txt
Tropical Depression Forecast (Storm #1)
                                          /storm_1/technical_advisory.txt
Tropical Depression Forecast (Storm #2)
                                          /storm_2/technical_advisory.txt
Tropical Depression Forecast (Storm #3)
                                          /storm_3/technical_advisory.txt
Tropical Depression Forecast (Storm #4)
                                          /storm_4/technical_advisory.txt
Tropical Depression Forecast (Storm #5)
                                          /storm_5/technical_advisory.txt
RECON PLAN
                                          TBD
```

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

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@ftpmail.nws.noaa.gov
Subject Line: Put anything you like
Body: open
cd data
cd raw
cd wt

get wtpq31.pgum.tcp.pq1.txt

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@ftpmail.nws.noaa.gov

Subject Line: Put anything you like

Body: open cd data

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.pqtw..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.pgtw..txt
NW Pacific Tropical Cyclone Warning Storm #5
                                                      /wtpn35.pgtw..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 Weather Services Branch W/OS21

National Weather Service Last Modified Aug 27, 2008

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

**** IMPORTANT NOTICES ****

Effective January 08, 2008, the address of the FTPMAIL service changed from ftpmail@weather.noaa.gov to ftpmail@ftpmail.nws.noaa.gov.

If you restrict incoming e-mail as a means of preventing spam, you must configure your e-mail system to allow mail from ftpmail@ftpmail.nws.noaa.gov

Read the help file carefully - 99% of errors using FTPMAIL are simple typo's, incorrect capitalization, failure to send in plain text format, leading or trailing spaces, or failure to set up any spam filters properly.

These instructions are subject to revision....download frequently.

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@ftpmail.nws.noaa.gov

Subject Line: Put anything you like

Body: open cd da

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@ftpmail.nws.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	fzus51.kcar.cwf.car.txt
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 fzus52.kjax.cwf.jax.txt Jacksonville, FL 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) fzca52.tjsj.cwf.spn.txt 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 fzus56.ksew.cwf.sew.txt Seattle, WA Portland, OR fzus56.kpqr.cwf.pqr.txt fzus56.kmfr.cwf.mfr.txt Medford, OR Eureka, CA fzus56.keka.cwf.eka.txt San Francisco, CA fzus56.kmtr.cwf.mtr.txt Los Angeles, CA fzus56.klox.cwf.lox.txt 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 fzpq52.pgum.cwf.pq2.txt West Micronesia 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 Chicago, IL fzus53.klot.nsh.lot.txt Milwaukee/Sullivan,WI fzus53.kmkx.nsh.mkx.txt Green Bay, WI fzus53.kgrb.nsh.grb.txt 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 Aug 27, 2008

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@ftpmail.nws.noaa.gov

Subject line: Put anything you like

Body: open cd fax

get robots.txt

quit

FTPMAIL

**** IMPORTANT NOTICES ****

Effective January 08, 2008, the address of the FTPMAIL service changed from ftpmail@weather.noaa.gov to ftpmail@ftpmail.nws.noaa.gov.

If you restrict incoming e-mail as a means of preventing spam, you must configure your e-mail system to allow mail from ftpmail@ftpmail.nws.noaa.gov

Read the help file carefully - 99% of errors using FTPMAIL are simple typo's, incorrect capitalization, failure to send in plain text format, leading or trailing spaces, or failure to set up any spam filters properly.

These instructions are subject to revision....download frequently.

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@ftpmail.nws.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
e.g.
http://polar.ncep.noaa.gov/waves/latest_run/nww3_na.f024h.3.gif
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
"enp" Eastern North Pacific
"enp_haw" ENP Hawaii zoom
"enp_wc" ENP Hawall 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.qif" 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/large/aofs_zzz_yyyy_xxxx.png
http://polar.ncep.noaa.gov/ofs/aofs_images/large/aofs_cur_f120_wnatlzoom.png
where xxxx =
"natl" North Atlantic
"wnatl" Western North
             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@ftpmail.nws.noaa.gov

Subject line: Put anything you like

Body: open cd fax

get nhclist.txt

quit

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@ftpmail.nws.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@ftpmail.nws.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@ftpmail.nws.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.faqs.org/faqs/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
http://www.nws.noaa.gov/om/marine/home.htm
cell.weather.gov
mobile.weather.gov
Mobile Page

Author: Timothy Rulon, Marine and Coastal Weather Services Branch W/OS21 National Weather Service Last Modified Aug 27, 2008

Document URL: http://weather.noaa.gov/pub/fax/robots.txt ftp://tgftp.nws.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 **A**utomated **M**utual-assistance **VE**ssel **R**escue 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:

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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 - \$19.00/3 issues/yr (\$26.60 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

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,

Radio Time Signals & Electronic Fixing Systems

Volume 3 Maritime Safety Information Services (2 Parts)

Volume 4 Meteorological Observation Stations

Volume 5 Global Maritime Distress and Safety Systems

Volume 6 Pilot Services, Vessel Traffic Services & Port Operations (5 parts)

INTERNATIONAL PUBLICATIONS

TSUNAMI The Great Waves - Free 11

The SafetyNET Users Handbook - Free

International SafetyNET Manual, 1994; IMO-908E¹²

NAVTEX Manual, 1994; IMO-951E¹²

GMDSS Handbook, 1995 (Includes GMDSS Master Plan); IMO-970E¹²

SOLAS Consolidated Edition, 1997; IMO-110E¹²

World Meteorological Organization Publication 9 - Weather Reporting 15

Volume A - Observing Stations

Volume C1 - Meteorological Bulletins

Volume C2 - Transmission Programmes (Incluides broadcast information)

Volume D - Information for Shipping (Includes broadcast information)

1. FAA, National Aeronautical Charting Office

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(800) 638-8972 toll free, U.S. only

(301) 436-6829 FAX

Email: 9-AMC-chartsales@faa.gov http://chartmaker.ncd.noaa.gov

or your local chart agent: http://chartmaker.ncd.noaa.gov/nsd/states.html

2. Available Internet: Via http://www.nws.noaa.gov/om/index.html

Or from your local National Weather Service Forecast Office.

3. Superintendent of Documents

P.O. Box 371954

Pittsburgh, PA 15250-7954

(202) 512-1800 (7:30am-4:30pm EST)

(202) 512-2250 FAX

http://www.gpo.gov

http://www.nws.noaa.gov/om/mwl/mwl.htm

(Distributed free to ships in VOS program)

Click here for the GPO printed order form

Click here for the GPO online order form

4. (Printed version available only to ships participating in U.S. VOS program)

web version http://www.nws.noaa.gov/om/marine/rfax.pdf

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5. Joint Publication of National Weather Service and Naval Oceanography Command

Out of date, no longer produced

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http://www.nws.noaa.gov/os/marine/feedback.htm

6. (Some publications available only to ships participating in U.S. VOS program)

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http://www.ukho.gov.uk

http://www.ukho.gov.uk/amd/distributorsList.asp (Distributors)

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http://www.navcen.uscg.gov/marcomms/gmdss/#Brochure

http://www.navcen.uscg.gov/marcomms/default.htm

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808-532-5576 (FAX)

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13. Superintendent of Documents

P.O. Box 371954 Pittsburgh, PA 15250-7954 (202) 512-1800 (7:30am-4:30pm EST) (202) 512-2250 FAX http://bookstore.gpo.gov

14. Since 2004, no longer printed by U.S. Government

15. American Meteorological Society Attn: WMO Publications Center 45 Beacon Street Boston, MA 02108 USA 1-617-227-2425 Fax: 1-617-742-8718 wmopubs@ametsoc.org

http://www.wmo.ch/web/catalogue/

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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.