#### WORLDWIDE MARINE RADIOFACSIMILE BROADCAST SCHEDULES

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

#### NATIONAL WEATHER SERVICE

May 05, 2006

#### 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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marine.weather@noaa.gov
http://www.nws.noaa.gov/om/marine/home.htm

## AFRICA

#### NAIROBI, KENYA

<b>CALL SIGI</b> 5YE 5YE	NS	FREQUE 9044.9 17447.5	kHz	TIMES CONTINUOUS CONTINUOUS	EMISSION F3C F3C		WER KW KW
5YE 5YE 0010/ 0140/ 0140/ 0540/ 0630/ 0830/ 0830/ 0844/ 0903/ 0922/ 0941/ 1017/ 1057/1638 1112/1653 1127/ 1127/1708 /1708 /1708 1142/1802 1210/1820 1229/1839	CONT SIGW: SIGW: SIGW: SIGW: DMC-0 SIGW: TEST FL180 FL340 FL340 FL390 SIG W: SURF, 850 HI 24-HO INDIAI SIG W: H+24: FL100 FL180	9044.9 17447.5 ENTS OF TI X FL250 X BELOW FI LAR FOREC X FL100-250 X FL250 CHART X BELOW FI CHART PRONOSTI V FL100-25 SUFFER AIR UPPER AIR	KHZ KHZ RANSMISSIO L240 (1200) - CAST- FORM I L240 - FORM CC CC CC CC CC CC CC CC CC C	CONTINUOUS CONTINUOUS N FORM NO. 585A NO. 2053 NO. 585A	F3C F3C F3C SPM/IOC 120/576	66  VALID TIME 1200 0000 1200 1800 1800 0000 0000 0000	KW
1248/1858 1307/1917 1326/1936 2055/ 2114/ 2133/ 1345/ 1430/ 1455/	FL340 FL390 FL300 FL340 FL390 INDIAI LOW I 24-HO	UPPER AIR UPPER AIR PRONOSTI PRONOSTI PRONOSTI PRONOSTI N OCEAN A LEVEL CON	C C C NALYSIS VERGENCE Z E OF PRESS	ZONE URE	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 0000 0000 0000 0000 0600 1200 1200 12	

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

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

#### **CAPE NAVAL, SOUTH AFRICA**

CALL ZSJ ZSJ ZSJ ZSJ	. SIGNS	FREQUE 4014 7508 13538 18238	ENCIES kHz kHz kHz kHz	TIMES 16Z-06Z (wh CONTINUO CONTINUO 06Z-16Z (wh	US US	ŕ	EMISSION F3C F3C F3C F3C	PO 10 10 10 10	WER KW KW KW KW
TIME	CONT	ENTS OF T	RANSMISSIO	N			RPM/IOC	VALID TIME	MAP AREA
0430 0500 0630 0730 0800 0915 1030 1100 1530 1700 2230	SURFACE A SURFACE P SURFACE A	PROG ROG CE LIMITS ( HER BULLE NALYSIS(SI ROG NALYSIS(SI HER BULLE	OCT-MAR) ETINS FOR CO HIPPING) HIPPING) ETINS FOR CO	DASTAL WATER			120/576 120/576 120/576 120/576 120/576 RTTY (170 H 120/576 120/576 RTTY (170 H 120/576	0000 1200 1200 Hz shift, 75 0600 0000 1200	ASXX FUXX FSXX AIAA Baud) ASXX FSXX ASXX
MAP A ASXX FUXX FSXX AIAA	REAS: 1:20,000 Lan 1:20,000 Mer 1:20,000 Mer 30E to 30W A	cator	00S20W 05S15W 05S15W ast to edge of i	00S70E 05S60E 05S60E ce pack except I	60S50W 60S15W 60S15W NIC West	60S90 60S60 60S60	DE OE		

(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			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/48HR 0154 TYPHOON 0216 36HR MINII 48HR MAXII 0238 24HR/48HR 60HR MINII 0300 SATELLITE 0406 500MB PLC 0428 48HR SURI 0450 SURFACE I 0724 SATELLITE 0746 TYPHOON 0830 SURFACE I 0852 24HR PREC 1126 TYPHOON 1148 TEST CHAI 1158 PROGRAM 1340 TYPHOON 1904 500MB PLC 1926 SURFACE I 0852 24HR PREC 1126 TYPHOON 1148 TEST CHAI 1158 PROGRAM 1340 TYPHOON 1904 500MB PLC 1926 SURFACE I 1948 TYPHOON 2134 24 HR SUR 2218 36HR/48HR	SURFACE PROG WARNING (IN ENGI MUM TEMP PROG(1 MUM TEMP PROG(1 PRECIPITATION P MUM TEMP PROG(1 PICTURE ANALYS) TTED DATA FACE PROG ANAL PICTURE ANALYS WARNING (IN ENGI PRESSURE ANALYS CIPITATION PROG TRACK PROG(2) RT(4) AMENDMENTS(4) WARNING (IN ENGI PRESSURE ANALYS	SIS (1 MAY-30 SEP) LISH & CHINESE)(1) SIS  LISH AND 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	18RE 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

#### **NEW DELHI, INDIA**

CALL SIGN ATP57 ATP65	NS FREQUE 7404.9 14842.0		<b>TIMES</b> 1430-0230 0230-1430	EMISSION B9W B9W	1	<b>OWER</b> 0 KW 0 KW
TIME	CONTENTS OF TR	RANSMISSIOI	N	RPM/IOC	VALID TIME	MAP AREA
0011/1211 0030/1230 0050/1248 0110/1306 0130/1324 0150/ /1342 0210/1400 0238//1430 0300//1448 0320//1506 0340/ 0400/ 0602/1810 0634/1820/1840 0654/1910 0714/1928 0734/1946 0753/2004 0812/2022 0834/2040 0856/2100 0916/2118 0936//2136 1005/2205/2136 1005/2205/2136 1005/2205/2136 1005/2205/2136 1005/2205/2136 1005/2205/2136 1005/2205/2136	24HR 300MB WINE 24HR 300MB WINE 24HR 300MB WINE 24HR 200MB WINE 24HR 700MB WINE 24HR 700MB WINE 24HR 150MB WINE 24HR 700MB WINE 24HR 700MB WINE 24HR 700MB WINE 24HR 700MB WINE 24HR 150MB WINE 72HR 500MB PROOF 7 DAY MEAN SST. INSAT IR SATELLI TEST CHART SURFACE ANALYS 500MB RELATIVE 500MB ANALYSIS 300MB ANALYSIS 300MB ANALYSIS 300MB ANALYSIS 24HR SURFACE P 12HR SIGNIFICAN 200MB ANALYSIS 850-500MB THICKI 24HR 500MB PROOF 500MB RELATIVE	O & TEMP PR O & TE	OG OG PROG (4 PANEL) OG OG OG OG OG OG OG OG WWF) ANAL PROG (4 PANEL) 'SIS ANALYSIS EIVED FROM TOKYO D PROG OE - 125E OE - 125E 40E - 120E	120/576 120/576	18/06 12/00 12/00 12/00 12/00 18/06 1200 0000 12/00 0000 1200 0000 1200 0000 1200 00/12 1200 00/12	AATHBAHHHHHHHHAAFF AEAAAAABAAAD AAAAAA
	F - 1:20,000,000 H - 1:20,000,000	EQ - 25N, 55 15S - 67.5N,	5E - 100E 000E - 180E			

(INFORMATION DATED 1999/2003) Frequencies listed may be slightly incorrect

#### TOKYO, JAPAN

CALL SIG JMH JMH2 JMH4	NS FREQUENCIES TIMES 3622.5 kHz CONTINUOUS 7305 kHz CONTINUOUS 13597 kHz CONTINUOUS	EMISSION F3C F3C F3C		OWER KW KW 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 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	TEST CHART METEOROLOGICAL SATELLITE PICTURE (MSAT)	120/576 120/576	00/12	C'
0130/1330 0150/1350 0210/ 0229/	RETRANSMISSION OF 1019/0730 TROPICAL CYCLONE FORECAST(1) SEA SURFACE CURRENT, WATER TEMPERATURE AT 100M DEPTH (2) RADIO PREDICTION (3) RETRANSMISSION OF 0210 (2)	120/576 120/576 120/576 120/576	00/12	C'
0240/1440 0300/ 0320/1520 0340/ 0400/1540 /1620	SURFACE ANALYSIS SURFACE ANALYSIS SEA SURFACE WATER TEMPERATURE (2) THE FIRST RETRANSMISSION OF 0240/1440 BROADCAST SCHEDULE, MANUAL AMENDMENTS RETRANSMISSION OF 0150/1350 (1) RETRANSMISSION OF 0300 (2) OCEAN WAVE ANALYSIS (NORTH PACIFIC)	120/576 120/576 120/576 120/576 120/576 120/576	00/12	C'
0421/ 0440/ 0459/1640 0518/1700 /1719 0537/1739	OCEAN WAVE ANALYSIS (NORTH PACIFIC) COASTAL WAVE ANALYSIS 500HPA HEIGHT, TEMPERATURE 850HPA HEIGHT, TEMPERATURE, DEW POINT DEPRESSION COASTAL WAVE ANALYSIS (1) 24HR 500HPA HEIGHT, VORTICITY PROGNOSIS 24 HR SURFACE PRESSURE, PRECIPITATION PROGNOSIS	120/576 120/576 120/576 120/576 120/576 120/576	0000 0000 00/12 00/12 1200 00/12	C" X C X
0548/ 0610/1750 0630//1810	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	120/576 120/576 120/576 120/576	0000 00/00 1200	C'
/1821	24 HR 500HPA TEMPERATURE AND 700HPA DEWPOINT DEPRESSION PROG 24HR 850HPA TEMPERATURE WIND AND 700HPA VERTICAL	120/576	1200	
/1832	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 48/72HR SURFACE PRESSURE, PRECIPITATION PROGNOSIS	120/576 120/576 120/576 120/576 120/576 120/576 120/576 120/576	0000 06/18 1200	ĊĊ C

#### TOKYO, JAPAN

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

(INFORMATION DATED 28 JUN 2005) http://www.kishou.go.jp/177jmh/JMH-ENG.pdf

#### PEVEK, CHUKOTKA PENINSULA

CALL SIGI	NS I	FREQUENCIES 148 kHz	TIMES CONTINUOUS	EMISSION F3C	N PC	WER
TIME	CONTEN	TS OF TRANSMISSION	N	RPM/IOC	VALID TIME	MAP AREA
0530-0730 1130-1330 1430-1630	ICE ICE ICE			90/576 90/576 90/576		
(INFORMATION DATED 11/97)						

#### TAIPEI, REPUBLIC OF CHINA

CALL SIGI BMF	N FREQUENCIES TIMES  4616 kHz 5250 kHz 8140 kHz 13900 kHz 18560 kHz	EMISSION F3C F3C F3C F3C F3C	10 10 10	WER KW KW KW KW KW
TIME	CONTENTS OF TRANSMISSION	RPM/IOC	VALID TIME	MAP AREA
0040/ 0110/1310 0130/1330 0250/1450 0330/1530 0350/ 0410/1610 0430/1630 0440/1640 0450/1650 0500/1700 0510/1710 0520/1720 0530/1730 0540/1740 0550/1750 0600/1820 0630/1830 0640/1840 0650/1850 0710/1910 0730/1930 0745/1945 0755/1955 0805//2015	CONTENTS OF TRANSMISSION  BROADCAST SCHEDULE TYPHOON WARNINGS (ENGLISH & CHINESE) GMS SATELLITE IMAGE FISHERY WEATHER FORECAST (IN CHINESE) SURFACE ANALYSIS WITH PLOTTED DATA 24HR SURFACE PROG TYPHOON WARNING (ENGLISH & CHINESE) 850HPA ANALYSIS WITH PLOTTED DATA 700HPA ANALYSIS WITH PLOTTED DATA 500HPA ANALYSIS WITH PLOTTED DATA 300HPA ANALYSIS WITH PLOTTED DATA 300HPA ANALYSIS WITH PLOTTED DATA 8FS SURFACE PRESSURE ANALY/RFS 500HPA HEIGHT ANALYSI RFS 12HR SURFACE PROG/RFS 12HR 500HPA PROG RFS 24HR SURFACE PROG/RFS 24HR 500HPA PROG RFS 36HR SURFACE PROG/RFS 24HR 500HPA PROG RFS 48HR SURFACE PROG/RFS 24HR 500HPA PROG RFS 48HR SURFACE PROG/RFS 72HR 500HPA PROG GFS 250HPA EQUATORIAL BELT WIND ANALYSIS GFS 200HPA EQUATORIAL BELT WIND ANALYSIS GFS 200HPA EQUATORIAL BELT WIND PROG GFS 24HR 200HPA EQUATORIAL BELT WIND PROG GFS 24HR 200HPA EQUATORIAL BELT WIND PROG GFS 48HR 850HPA EQUATORIAL BELT WIND PROG GFS 48HR 850HPA EQUATORIAL BELT WIND PROG GFS 48HR 850HPA EQUATORIAL BELT WIND PROG GFS 48HR 800HPA EQUATORIAL BELT WIND PROG GFS 72HR 850HPA EQUATORIAL BELT WIND PROG GFS 72HR SURFACE PROG GFS	120/576 120/576	00/12 00/12	

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

(SCHEDULE EFFECTIVE APR 01, 2002) (INFORMATION DATED 10/2002) http://marine.cwb.gov.tw/CWBMMC/BMF-E.html

#### SEOUL, REPUBLIC OF KOREA

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

#### SEOUL, REPUBLIC OF KOREA

TIME	CONTENTS OF TRANSMISSION	RPM/IOC	VALID TIME	MAP AREA
0000/1200 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 700MB ANALYSIS 500MB ANALYSIS	120/576 120/576 120/576 120/576	00/12 00/12 00/12 00/12	
0620/1820 0632/ 0646/1846 0700/1900	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	120/576 120/576 120/576 120/576	0618 0600 06/18 0530/1730	
0712/ 0740/1940 0800/2000 0821/2021 0834/2034	SST OBSERVATION CHART OF NEAR KOREAN PENINSULA AREA 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	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)	)120/576 120/576 120/576 120/576	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)

#### **BANGKOK, THAILAND**

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

#### **BANGKOK, THAILAND**

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

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

(INFORMATION DATED 11/97)

#### **TASHKENT 1, UZBEKISTAN**

CALL SIG RBV70 RPJ78 RBV78 RBX72 RCH72 RBV76	NS FREQUENCIES 3690 kHz 4365 kHz 5890 kHz 7570 kHz 9340 kHz 14982.5 kHz	TIMES 1300-0130 CONTINUOUS CONTINUOUS 0130-1300 CONTINUOUS CONTINUOUS	EMISSION F3C F3C F3C F3C F3C F3C	N PC	OWER
TIME	CONTENTS OF TRANSMISSIO	DN	RPM/IOC	VALID TIME	MAP AREA
/1215 0110/ 0130/1325 0155/1355 0255/1455 0345/1540/1615 0420//1655 0515//1745 0625/1850 0633/ 0650//2020 0845/ 0755/1930/2020 0845//2105 0930/2122/2105 0930/2122/2345 NOTE: DES	NEPHANALYSIS RADAR DATA  18HR SIGNIFICANT WEATHER SURFACE ANALYSIS SURFACE ANALYSIS 700MB ANALYSIS 400MB ANALYSIS 400MB ANALYSIS SURFACE ANALYSIS 300MB ANALYSIS SURFACE ANALYSIS 850MB ANALYSIS 850MB ANALYSIS 600/1000MB ANALYSIS 36HR 500MB PROG 36HR 850MB/700MB/500MB VERADAR DATA PRECIPITATION AND MAX TEI 400MB ANALYSIS SURFACE ANALYSIS SURFACE ANALYSIS SURFACE ANALYSIS SURFACE ANALYSIS 36HR 850MB/700MB/500MB VEROPOPAUSE ANALYSIS RADAR DATA 500/1000MB ANALYSIS SURFACE ANALYSIS SURFACE ANALYSIS SURFACE ANALYSIS SURFACE ANALYSIS SURFACE ANALYSIS SURFACE ANALYSIS	ERTICAL MOTION PROGS  MPS  ERTICAL MOTION PROGS  ERTICAL MOTION PROGS	90/576 90/576 60/576 60/576 90/576 90/576 90/576 90/576 90/576 120/288 90/576 90/576 90/576 60/576 90/576 90/576 90/576 90/576 90/576 90/576 90/576 90/576 90/576 90/576	0000 06/18 00/12 00/12 1200  0000 1500 0000 1200 12/00 1200 0600 1500 0600 06/18 1800 0600 0000 06/12 2100 0000 09/21 1200	*EDBAAAAABAACCEKABAACAEABC

(INFORMATION DATED 09/1990, update 2005 – service probably ceased in 2003)  $$\operatorname{II-7}$$ 

#### **TASHKENT 2, UZBEKISTAN**

CALL SIGN RBX70 RBX71 RIJ75 RCH73 ROM5	N         FREQUENCIES         TIMES           3280         kHz         CONTINUOUS           5285         kHz         CONTINUOUS           8083         kHz         1400-0200           9150         kHz         CONTINUOUS           13947         kHz         0200-1400	<b>EMISSIO</b> F3C F3C F3C F3C F3C	N P(	OWER
TIME	CONTENTS OF TRANSMISSION	RPM/IOC	VALID TIME	MAP AREA
0030/ 0050/1250 0130//1330 0258/ 0315/1515 0350/1550 0410/1605/1640 0500/ 0550/1720/1755 0625/ 0640/ 0750/1930/2 015 0830/ 0915/2105/2122/2139 0950//2155/2212 1140/2320	BROADCAST SCHEDULE RADAR DATA  18HR SIGNIFICANT WEATHER PROG PREBARIC CHART  48HR 500MB PROG 300MB ANALYSIS RADAR DATA 500MB ANALYSIS 850MB ANALYSIS 850MB ANALYSIS 200MB ANALYSIS 200MB ANALYSIS 100MB ANALYSIS PRECIPITATION/TEMPERATURE EXTREMES 400MB ANALYSIS RADAR DATA 100MB ANALYSIS 15HR 300MB/SIGNIFICANT WEATHER PROG MAX WIND ANALYSIS 500MB ANALYSIS 700MB ANALYSIS 500MB ANALYSIS 500MB ANALYSIS 700MB ANALYSIS 700MB ANALYSIS 800MB ANALYSIS 12HR 300MB/SIGNIFICANT WEATHER PROGS	90/576 90/576 60/576 90/576	00/12 06/18 1800 0000 00/12 03/15 00/12 1200 0300 00/12 1200 1200 0000 15/03 1200 0600 06/18 1800 1800 1800 1800 1800 18/00	EHHCAEAABAAAAEAHDAAD*****************************
MAP AREAS:	: A - 1:15,000,000	N 030E, 02N 088E N 040E, 28N 077E N 026E, 22N 072E N 016E, 31N 072E N 029E, 24N 082E N 016E, 31N 072E		
(INIEORMATIC	ON DATED 07/1997 undate 2005 – service probably o	eased in 2003)		

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

#### KYODO NEWS AGENCY, JAPAN/SINGAPORE

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

TIN	ИE	CONTENTS OF TRANSMISSION	RPM/IOC	VALID TIME	MAP AREA
014 020 020 020 043	00 00 45 30	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	
043 054 054 06 06	40 40 40 10	TUE&FRI: Satellite`Fishery Information SAT&SUN: Ocean Graphic Information SUN&MON: Sea Surface Current Prog	120/576 60/576 60/576 60/576 120/576 60/576		
06: 06: 07: 07:	50 05	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	
074	45	Sunday Ed(N), FAX DAYORI 1,2,3 (N) Sumo match (begins 0930 SAT as well) MON-SAT:	60/576 60/576		
074		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		
110 113 133 14 14 150 16	30 35 15 45 00	NX (N), Sumo 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) MON: Sunday Ed(R)	60/576 60/576 60/576 60/576 ) 60/576 60/576		
164 18 193 193	45 10 30	TUE-SUN: EVERING Ed(R) 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 60/576		
203 22		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: Morning Ed(R),Sports Ed 1,2(R),NX(R),FAX DAYORI 1-3(R)(3 Mon only	60/576		
22	15	WX Chart TUE-SUN:	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			

Some of these transmissions may be encrypted

#### NORTHWOOD, UNITED KINGDOM (PERSIAN GULF)

CALL SIGNS	<b>FREQUENCIES</b>	TIMES	EMISSION	POWER
GYA	3289.5 kHz	ALTERNATE	F3C	10 KW
GYA	6834 kHz	CONTINUOUS	F3C	10 KW
GYA	14436 kHz	ALTERNATE	F3C	10 KW
GYA	18261 kHz	CONTINUOUS	F3Č	10 KW

TIME	CONTENTS OF TRANSMISSION	RPM/IOC	VALID TIME	MAP AREA
0106/1306 0118/1318 0306/1506	SCHEDULE QSL REPORT SURFACE ANALYSIS STREAMLINE ANALYSIS SURFACE ANALYSIS 700 hPA WBPT/PPTN +24 AIR TEMP/DEW POINT +24 SURFACE PROG T+24 GULF TAFS SURFACE ANALYSIS SURFACE PROG T+24 SURFACE PROG T+48 GULF TAFS SURFACE ANALYSIS SURFACE ANALYSIS SURFACE PROG T+24 GULF TAFS SURFACE PROG T+24 GULF TAFS SURFACE PROG T+24 GULF TAFS SPARE TAFS SIGNIFICANT WINDS PROG T+24 SURFACE PROG T+48 SURFACE PROG T+48 SURFACE PROG T+72 SURFACE PROG T+96 SURFACE PROG T+120 THICKNESS/GEOPONTENTIAL HEIGHT ANALYSIS	120/576 120/576	00/12	
0354/1554 0406/1606 0418/1618	STREAMLINE ANALYSIS SURFACE ANALYSIS 700 hPA WBPT/PPTN +24	120/576 120/576 120/576	00/12 00/12 00/12 00/12	
0430/1630 0442/1642	AIR TEMP/DEW POINT +24 SUBFACE PROG T+24	120/576 120/576	00/12 00/12	
0454/1654 0506/1706 0518/1718	GULF TAFS SURFACE ANALYSIS SURFACE PROG T+24	120/576 120/576 120/576	03/15 00/12 00/12	
0530/1730 0542/1742 0606/1806	SURFACE PROG T+48 GULF TAFS SURFACE ANALYSIS	120/576 120/576 120/576	00/12 06/18 00/12	
0618/1818 0654/1854 0706/1906	SURFACE PROG T+24 GULF TAFS SPARE TAFS	120/576 120/576 120/576	00/12 06/18	
0718/1918 0730/1930 0742/1942	SIGNIFICANT WINDS PROG T+24 SURFACE PROG T+48 SURFACE PROG T+72	120/576 120/576 120/576	00/12 00/12 00/12	
0754/1954 0806/2006 0818/2018	SURFACE PROG T+96 SURFACE PROG T+120 THICKNESS/GEOPONTENTIAL HEIGHT ANALYSIS	120/576 120/576 120/576	00/12 00/12 00/12	
0830/2030 0842/2042 0854/2054	SURFACE SIGNIFINT WINDS T+48 SURFACE SIGNIFINT WINDS T+72 SURFACE SIGNIFINT WINDS T+96	120/576 120/576 120/576	00/12 00/12 00/12	
0918/2118 0930/2130 0942/2142	THICKNESS/GEOPONTENTIAL HEIGHT ANALYSIS THICKNESS/GEOPONTENTIAL HEIGHT T+24 850 BPA WINDS T+24	120/576 120/576 120/576	00/12 00/12 00/12 00/12	
0954/2154 1006/2206 1042/2242	700 hPA WINDS T+24 SEA SURFACE TEMP 700 hPA WRDT/PDTN T+24	120/576 120/576 120/576	00/12 00/00 00/18	
1042/2242 1054/2254 1130/2330	SURFACE PROG T+120 THICKNESS/GEOPONTENTIAL HEIGHT ANALYSIS SURFACE SIGNIFINT WINDS T+48 SURFACE SIGNIFINT WINDS T+72 SURFACE SIGNIFINT WINDS T+96 THICKNESS/GEOPONTENTIAL HEIGHT ANALYSIS THICKNESS/GEOPONTENTIAL HEIGHT T+24 850 hPA WINDS T+24 700 hPA WINDS T+24 SEA SURFACE TEMP 700 hPA WBPT/PPTN T+24 AIR TEMP/DEW POINT +24 SEA AND SWELL PROGNOSIS T+24	120/576 120/576 120/576	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 03 JUNE 2005

### SOUTH AMERICA

#### **RIO DE JANEIRO, BRAZIL**

CALL SIGN PWZ-33 PWZ-33	NS	FREQU 12665 16978	ENCIES kHz kHz	TIMES CONTINUOUS CONTINUOUS		EMISSION F3C F3C	PO 1 1	WER KW KW
TIME	CONTE	ENTS OF 1	RANSMISS	ION		RPM/IOC	VALID TIME	MAP AREA
0745/1630 0750/1635 0810/1655 0830/1715 0850/1735	WAVES WIND	CE ANAL' S SIG HEI AT 10 m (K	YSIS (Hpa) GHT (m) ANI (TS) PROG 1 EMPERATU	D DIR PROG 12/00Z- 12/00Z +36 HR RE	+36HR	120/576 120/576 120/576 120/576 120/576	00/12 00/12 00/12 12/00	A B C D
MAP AREA:	B: 1:58 C: 1:58	3,000,000 3,500,000	20N 090W, 2 20N 090W, 2	0N 020E, 70S 090W, 20N 020E, 70S 090W 20N 020E, 70S 090W 15N 018W, 50S 072W	, 70S 020E ′, 70S 020E			

(INFORMATION DATED 18 Apr 2004) https://www.mar.mil.br/dhn/chm/meteo/info/apend\_3ing.htm

#### **VALPARAISO PLAYA ANCHA, CHILE**

CALL SIGNS CBV CBV CBV	S FREQUENCIES 4228.0 kHz 8677.0 kHz 17146.4 kHz	TIMES CONTINUOUS CONTINUOUS CONTINUOUS	EMISSION F3C F3C F3C	1 1	OWER KW KW KW
TIME CONTENTS OF TRANSMISSION			RPM/IOC	VALID TIME	MAP AREA
1115	SURFACE ANALYSIS		120/576	0600	Δ

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

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

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

### NORTH AMERICA

#### HALIFAX, NOVA SCOTIA, CANADA

CALL SIGN	FREQUENCIES	TIMES	EMISSION	POWER
CFH	122.5 kHz	CONTINUOUS	F3C	10 KW
	4271 kHz	CONTINUOUS	F3Č	6 KW
	6496.4 kHz	CONTINUOUS	F3Č	6 KW
	10536 kHz	CONTINUOUS	F3C	6 KW
	13510 kHz	CONTINUOUS	F3Č	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//2201 1022//2201 101/	LABRADOR COAST ICE CHART (SEASONAL) 3-DAY PROG SATELLITE PHOTO INFRARED 4-DAY PROG 5-DAY PROG 12/00Z SIGNIFICANT WEATHER DEPICTION 500MB ANALYSIS SURFACE ANALYSIS 850MB ANALYSIS 36HR 500MB FORECAST 24HR SURFACE PROG 850 MB FORECAST WINDS 36HR SURFACE PROG 850MB FORECAST WINDS 18/06Z SIIGNIFICANT WEATHER DEPICTION 24/36HR SIGNIFICANT WAVE PROGNOSIS SURFACE ANALYSIS SST: NOVA SCOTIA - MON NEWFOUNDLAND - TUE/FRI OFA: NOVA SCOTIA - WED/SAT NEWFOUNDLAND - SUN/THU SST: NOVA SCOTIA - TUE/THU/FRI NEWFOUNDLAND - WED/SAT OFA: NOVA SCOTIA - SUN NEWFOUNDLAND - MON SATELLITE PHOTO INFRARED NEWFOUNDLAND ICE CHART CFH BROADCAST SCHEDULE GULF OF ST LAWRENCE ICE CHART (SEASONAL)	120/576 120/576	LATEST 1200 0000 1200 1200 12/00 00/12 12/00 00/12 12/00 00/12 18&00 12/00 06&12 18/06 0&12/12&0 06/18 LATEST	G GGABFBHACACAAFEEED/D

#### NOTES:

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

The geographic area of coverage for the ice charts varies according to season. The following are the typical areas to be broadcast: 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 48W, 34N 73W E. 50N 75W, 50N 48W, 34N 48W, 34N 75W

B. 76N 16W, 30N 20W, 23N 110W, 8N 69W F. 42N 22W, 22N 60W, 34N 89W, 74N 52W C. 52N 80W, 65N 15W, 30N 60W, 34N 17W G. 52N 98W, 56N 24W, 30N 39W, 28N 78W

D. 60N 68W, 60N 37W, 43N 37W, 43N 68W H. 30N 107W, 15N 67W, 34N 24W, 79N 60W

I. 54N 100W, 58N 22W, 30N 39W, 28N 78W

(INFORMATION DATED Apr 18, 2006) http://www.ccg-gcc.gc.ca/mcts-sctm/ramn/docs/aa.ae/ae5-36.htm

#### **IQALUIT, N.W.T., CANADA**

<b>CALL SIGI</b> VFF VFF	3253.0 kHz USB	<b>TIMES</b> 25 JUN – 30 NOV 25 JUN – 30 NOV	EMISSION J3C J3C	5	WER KW KW
TIME	CONTENTS OF TRANSMISSION		RPM/IOC	VALID TIME	MAP AREA
0500/	Ice Analysis Hudson Bay south, Hudson B		120/576	1	ANLA
1000/2100	Foxe Basin, Labrador Coast, Davis Strait, Marine Surface Analysis (Arctic) Marine wind prognosis (Arctic) ( experime Regional Marine Wind Prognosis (on requ	•	120/576		
/2125	Ice Analysis Hudson Bay south, Hudson E Foxe Basin, Labrador Coast, Davis Strait,	•	120/576		

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

(INFORMATION DATED April 18, 2006) http://www.ccg-gcc.gc.ca/mcts-sctm/ramn/docs/aa.ae/ae2-4.htm

#### **RESOLUTE, N.W.T., CANADA**

CALL SIGN VFR VFR	3253.0 kHz 2	<b>TIMES</b> 25 JUN – 30 NOV 25 JUN – 30 NOV	EMISSION J3C J3C	<b>PO</b> 5 5	WER KW KW
TIME	CONTENTS OF TRANSMISSION		RPM/IOC	VALID TIME	MAP AREA
0010/	Ice analysis Baffin Bay, Approache: Eureka Sound, McClure Strait, Parr		120/576		
0700/	Ice analysis Baffin Bay, Approache		120/576		
1100/2330	Eureka Sound, McClure Strait, Parr Marine Surface Analysis (Arctic) Marine wind prognosis (Arctic) ( ex Regional Marine Wind Prognosis (d		120/576		

(INFORMATION DATED Apr 18, 2006) http://www.ccg-gcc.gc.ca/mcts-sctm/ramn/docs/aa.ae/ae2-4.htm

#### **SYDNEY - NOVA SCOTIA, CANADA**

CALL SIGN VCO VCO	N	<b>FREQU</b> 4416 6915	ENCIES kHz kHz	<b>TIMES</b> 1121-1741 2200-2331	EMISSION J3C J3C	РО	WER
TIME	CONTE	NTS OF TI	RANSMISSIO	N	RPM/IOC	VALID TIME	MAP AREA
1121 1142 1741 2200 2331	ICE AN/ ICE AN/ ICE AN/	ALYSIS EA ALYSIS ICI ALYSIS GU	EBERG LIMIT JLF OF ST. LA	HEAST NEWFOUNDLAND WATERS	120/576 120/576		

(INFORMATION DATED 2005) http://www.ccg-gcc.gc.ca/mcts-sctm/ramn/docs/aa.ae/ae2-52.htm

#### KODIAK, ALASKA, U.S.A.

CALL SIGN	FREQUENCIES	TIMES	EMISSION	POWER
NOJ	2054 kHz	CONTINUOUS	F3C	7.5 KW
	4298 kHz	CONTINUOUS	F3C	7.5 KW
	8459 kHz	CONTINUOUS	F3C	7.5 KW
	12412.5 kHz	CONTINUOUS	F3C	7.5 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 COASTAL MARINE FORECAST TABLES (ALASKA)	120/576 120/576 120/576 120/576	00/12	2 3* 1
0456/1656 0506/1706 0517/1717 0527/1727	REBROADCAST 24HR SURFACE F'CAST 2227/1027 REBROADCAST 48HR SURFACE F'CAST 2237/1037 COASTAL MARINE FORECAST TABLES (ALASKA) SEA STATE ANALYSIS/REBROADCAST GOES IR SATELLITE IMAGE 500 MB ANALYSIS SYMBOLS AND CONTRACTIONS/SCHEDULE REQUEST FOR COMMENTS/PRODUCT NOTICE 24HR 500 MB FORECAST TEST PATTERN SURFACE ANALYSIS 24HR WIND/WAVE FORECAST 48HR SURFACE FORECAST 48HR SURFACE 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 WAVE PERIOD, SWELL DIRECTION 96HR 500 MB FORECAST	120/576 120/576 120/576 120/576 120/576	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	SURFACE ANALYSIS 24HR WIND/WAVE FORECAST 24HR SURFACE FORECAST	120/576 120/576 120/576	06/18 00/12 00/12	2 3* 3* 1
1037/2237 1047/2247 1057/2257	48HR SURFACE FORECAST 48HR WIND/WAVE FORECAST 5 DAY SEA JOE AND VOICE	120/576 120/576 120/576	00/12 00/12 00/12 LATEST	1
1057/2257 1117/2317 1128/2328	GOES IR SATELLITE IMAGE  48HR WAVE PERIOD, SWELL DIRECTION	120/576 120/576 120/576	00/12 00/12	6 5 1
1138/2338 1148/ 1159/	48HR 500 MB FORECAST SEA SURFACE TEMPERATURE ANALYSIS COOK INLET SEA ICE FORECAST	120/576 120/576 120/576	00/12 LATEST LATEST	1 4 7
/2348 /2358 /0008	96HR SURFACE FORECAST 96HR WIND/WAVE FORECAST 96HR WAVE PERIOD, SWELL DIRECTION	120/576 120/576 120/576	1200 1200 1200	1 1 1
/0018	96HR 500 MB FORECAST	120/576	1200	1

Change postponed until date TBD...

Until May 16, 2006

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

Change postponed until date TBD...

<sup>\*</sup> Effective May 16, 2006 at 1900 UTC, map area 3 will change from a polar stereographic to a Mercator projection as follows:

MAP AREAS:	1.	20N - 70N,	115W - 135E	2. 40N - 70N,	125W - 150E
	3	42N - 72N	122\M _ 155E	4 40N - 60N	125\M _ 160E

5. 05N - 60N, 110W - 160W 6. ICE COVERED AK WATERS

7. COOK INLET

NOTES: 1. CARRIER FREQUENCY IS 1.9 kHz BELOW THE ASSIGNED FREQUENCY

2. COMMENTS AND SUGGESTIONS SHOULD BE DIRECTED TO:

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

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

Many of these charts also broadcast from Pt. Reyes, CA Further information see: http://www.nws.noaa.gov/om/marine/home.htm

(SCHEDULE EFFECTIVE JUN 15, 2005 1400z and Change postponed until date TBD...MAY 16, 2006 1900z) (INFORMATION DATED APR 28, 2006)

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

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

TIME	CONTENTS OF TRANSMISSION	RPM/IOC	VALID TIME	MAP AREA
0140/1400 0143/1403 0154/1414 0205/1425 0215/1435 0225/ 0235/ 0245/1445 0255/1455 0305/1505 0318/1518 0331/1531 0344/1544 0357/1557 0408/1608 0655/1840	TEST PATTERN NE PACIFIC GOES IR SATELLITE IMAGE PACIFIC GOES IR SATELLITE IMAGE TROPICAL SEA STATE ANALYSIS TROPICAL 24HR WIND/WAVE FORECAST TROPICAL 48HR WIND/WAVE FORECAST TROPICAL 72HR WIND/WAVE FORECAST 500MB ANALYSIS SEA STATE ANALYSIS, WIND/WAVE ANALYSIS PRELIM SURFACE ANALYSIS(PART 1 NE PAC) PRELIM SURFACE ANALYSIS(PART 2 NW PAC) FINAL SURFACE ANALYSIS(PART 1 NE PAC) FINAL SURFACE ANALYSIS(PART 2 NW PAC) CYCLONE DANGER AREA* OF HIGH WIND/WAVES TROPICAL SURFACE ANALYSIS	120/576 120/576 120/576 120/576 120/576 120/576 120/576 120/576 120/576 120/576 120/576 120/576 120/576 120/576	00/12 00/12 00/12 00/12 0000 0000 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
0655/1840 0657/ 0707/ 0717/ 0727/ 1852 0737/1902 0748/1913 0758/1923 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 1146/	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 SURFACE FORECAST 48HR WIND/WAVE FORECAST 48HR WIND/WAVE FORECAST 48HR WAVE PERIOD/SWELL DIRECTION 96HR 500MB FORECAST 96HR SURFACE FORECAST 96HR WIND/WAVE FORECAST 96HR WIND/WAVE FORECAST 96HR WAVE PERIOD/SWELL DIRECTION PACIFIC GOES IR SATELLITE IMAGE SURFACE ANALYSIS (PART 1 NE PACIFIC) SURFACE ANALYSIS (PART 2 NW PACIFIC) TROPICAL SURFACE ANALYSIS TROPICAL 24HR WIND/WAVE FORECAST CYCLONE DANGER AREA* or HIGH WIND/WAVES	120/576 120/576	1200 1200 1200 1200 LATEST 06/18 06/18 06/18 00/12 00/12 00/12 00/12 1200 1200 1200	11119678188111111115234410
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	1200 1200 12/00 0000	4 4 4 4

<sup>\*</sup> Tropical Cyclone Danger Area chart replaced by High Wind/Wave Warning chart Dec 01 - May 14

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

Until May 16, 2006

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 7. 05N - 32N, EAST OF 130W 9. 40N - 53N, EAST OF 136W 9. 40N - 53N, EAST OF 136W 9. 40N - 80W - 180W

# Effective May 16, 2006 at 1900 UTC, map area 8 will change from a polar stereographic to a Mercator projection as follows:

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 7. 05N - 32N, EAST OF 130W 9. 40N - 53N, EAST OF 136W 10. 0N - 40N, 80W - 180W

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

> NATIONAL WEATHER SERVICE/NOAA NATIONAL CENTER FOR ENVIRONMENTAL PREDICTION MARINE FORECAST BRANCH W/NMC31 5200 AUTH ROAD **CAMP SPRINGS, MD 20746-4304**

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

EMAIL: David.Feit@noaa.gov

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

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

(SCHEDULE EFFECTIVE JUN 15, 2005 1400z and MAY 16, 2006 1900z) (INFORMATION DATED APR 10, 2006)

#### **NEW ORLEANS, LOUISIANA, U.S.A.**

CALL SIGN	<b>FREQUENCIES</b>	TIMES	<b>EMISSION</b>	POWER
NMG	4317.9 kHz	CONTINUOUS	F3C	4 KW
	8503.9 kHz	CONTINUOUS	F3C	4 KW
	12789.9 kHz	CONTINUOUS	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	CONTENTS OF TRANSMISSION  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 24 HR SURFACE FORECAST 48 HR SURFACE FORECAST 72 HR SURFACE FORECAST 72 HR SURFACE FORECAST CYCLONE DANGER AREA* or HIGH WIND/WAVES 72 HR WAVE PERIOD/SWELL DIRECTION (REBROADCAST OF 0150) GOES IR TROPICAL SATELLITE IMAGE 00 HR SEA STATE ANALYSIS PRODUCT NOTICE BULLETIN HIGH SEAS FORECAST (IN ENGLISH) TEST PATTERN U.S./TROPICAL SURFACE ANALYSIS (W HALF)	120/576 120/576 120/576 120/576 120/576 120/576 120/576 120/576 120/576	18/06 18/06 00/12 00/12 00/12 00/12 00/12 00/12 21/09	1 1 2 3 3 3 3 3 3 3 6 3 3 4 3
0150/ /1350 0200/1400 0215/1415 /1425 0225/1445	72 HR WAVE PERIOD/SWELL DIRECTION (REBROADCAST OF 0150) GOES IR TROPICAL SATELLITE IMAGE 00 HR SEA STATE ANALYSIS PRODUCT NOTICE BULLETIN HIGH SEAS FORECAST (IN ENGLISH)	120/576 120/576 120/576 120/576 120/576 120/576	0000 0000 00/12 00/12	3 3 4 3 5
0600/1800 0605/1805 0620/1820 0635/1835 0645/1845 0655/1855 0705/1905 0715/1915 0725/1925 0735/1935 0750/1950 0800/2000	TROPICAL SURFACE ANALYSIS (E HALF) 24 HR WIND/WAVE FORECAST (REBROADCAST OF 0045/1245) (REBROADCAST OF 0055/1255) (REBROADCAST OF 0105/1305) (REBROADCAST OF 0115/1315) (REBROADCAST OF 0115/1315) (REBROADCAST OF 0125/1325) CYCLONE DANGER AREA* or HIGH WIND/WAVES 48 HR WAVE PERIOD/SWELL DIRECTION GOES IR TROPICAL SATELLITE IMAGE	120/576 120/576 120/576 120/576 120/576 120/576 120/576 120/576 120/576 120/576	00/12 00/12 06/18 00/12 00/12 00/12 00/12 03/15 00/12 07/18	123333336343
0815/2015 0825/2025 0845/2045	(REBROADCAST OF 0215/1415) REQUEST FOR COMMENTS/BROADCAST SCHEDULE HIGH SEAS FORECAST (IN ENGLISH)	120/576 120/576 120/576	00/12 04/16	3 5

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

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

(Information dated Mar 03, 2006) http://weather.noaa.gov/fax/gulf.shtml

#### **BOSTON, MASSACHUSETTS, U.S.A.**

CALL SIGN	FREQUENCIES	TIMES	EMISSION	POWER
NMF	4235 kHz	0230z-1015z	F3C	4 KW
	6340.5 kHz	CONTINUOUS	F3C	4 KW
	9110 kHz	CONTINUOUS	F3C	4 KW
	12750 kHz	1400z-2215z	F3C	4 KW

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	TIIVIL	ANLA
0233/1453 0243/ 0254/ 0305/	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	SATELLITE IMAGE	120/576	1200	5
0315/1515	WIND/WAVE ANALYSIS	120/576	00/12	1#
0325/1525	SURFACE ANALYSIS (PART 1 NE ATLANTIC)	120/576	00/12	2
0338/1538 0351/ /1600 /1720	SURFACE ANALYSIS (PART 2 NW ATLANTIC) SATELLITE IMAGE ICE CHARTS TEST PATTERN	120/576 120/576 120/576 120/576	00/12 0000 LATEST	2 3 5
0402/1723	(REBROADCAST OF 0325/1525)	120/576	00/12	2
0415/1736	(REBROADCAST OF 0338/1538)	120/576	00/12	3
0428/1749	500MB ANALYSIS	120/576	00/12	4
/1759	SEA STATE ANALYSIS	120/576	1200	4
0438/1810 0452/1824 0745/1900	ICE CHARTS CYCLONE DANGER AREA* or HIGH WIND/WAVES TEST PATTERN	120/576 120/576 120/576	LATEST 03/15	7
0755/	PRELIMINARY SURFACE ANALYSIS 24HR SURFACE FORECAST 24HR WIND/WAVE FORECAST 24HR 500MB FORECAST	120/576	0600	1
0805/1905		120/576	00/12	1#
0815/1915		120/576	00/12	1#
0825/1925		120/576	00/12	1@
0835/1935	36HR 500MB FORECAST	120/576	12/00	
0845/1945	48HR 500MB FORECAST	120/576	00/12	
0855/1955	48HR SURFACE FORECAST	120/576	00/12	
0905/2005	48HR WIND/WAVE FORECAST	120/576	00/12	4
0915/2015	48HR WAVE PERIOD FORECAST	120/576	00/12	4
/2025	PRELIMINARY SURFACE ANALYSIS	120/576	1800	1
/2035	96 HR 500MB FORECAST	120/576	1200	4
/2045 /2055 /2105 /2115	96 HR SURFACE FORECAST 96 HR WIND/WAVE FORECAST 96 HR WAVE PERIOD FORECAST (REBROADCAST OF 2045)	120/576 120/576 120/576 120/576	1200 1200 1200 1200	4 4 4 4 4 4 4 4 4 4 4 2 3 6 2 3 7
0925/2125	SURFACE ANALYSIS (PART 1 NE ATLANTIC)	120/576	06/18	2
0938/2138	SURFACE ANALYSIS (PART 2 NW ATLANTIC)	120/576	06/18	3
0951/2151	SATELLITE IMAGE	120/576	06/18	6
1002/2202	(REBROADCAST OF 0925/2125)	120/576	06/18	2
1015/2215	(REBROADCAST OF 0938/2138)	120/576	06/18	3
1028/2228	CYCLONE DANGER AREA* or HIGH WIND/WAVES	120/576	09/21	7

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

#### CURRENT

MAP AREAS 1. 28N-52N, 45W-85W 3. 18N-65N, 40W-95W 5. 20N-55N, 55W-95W 7. 05N-60N, 0W-100W

2. 18N-65N, 10E-45W 4. 18N-65N, 10E-95W 6. EQ-60N, 40W-130W

Effective May 16, 2006 at 1900 UTC, the map area for several Boston wind/wave, surface and 24 HR 500 MB charts will change from a polar stereographic to a Mercator projection, and the coverage of the 24 HR 500 MB charts will be expanded to the same basin-wide projection as the current 36...48 and 96 hour charts as follows:

#### **BOSTON, MASSACHUSETTS, U.S.A.**

MAP AREAS 1. 28N-52N, 45W-85W 3. 18N-65N, 40W-95W 5. 20N-55N, 55W-95W

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 @ Map area 4 after May 16, 2006 # Map area 8 after May 16, 2006

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 New Orleans, LA

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

(EFFECTIVE DATE SEP 15, 2005 and MAY 16, 2006) (INFORMATION DATED APR 10, 2006) http://weather.noaa.gov/pub/fax/hfmarsh.txt

#### **INUVIK, CANADA**

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

Note: Also available on request

(INFORMATION DATED May 2005) http://www.ccg-gcc.gc.ca/mcts-sctm/ramn/docs/ca.pe/pe2-5.htm (Update Mar 2002) Frequencies listed may be carrier frequencies, add 1.9 kHz for center frequency.

# PACIFIC OCEAN BASIN

# **CHARLEVILLE, AUSTRALIA**

CALL SIGNS	FREQUEN	CIES	TIMES	EMISSION	POWER
VMC	2628	kHz	0900-1900	F3C	1 KW
VMC	5100	kHz	CONTINUOUS	F3C	1 KW
VMC	11030	kHz	CONTINUOUS	F3C	1 KW
VMC	13920	kHz	CONTINUOUS	F3C	1 KW
VMC	20469	kHz	1900-0900	F3C	1 KW

# **WILUNA, AUSTRALIA**

CALL SIGN	FREQUENCIES	TIMES	EMISSION	POWER
VMW	5755 kHz	1100-2100	F3C	1 KW
VMW	7535 kHz	CONTINUOUS	F3C	1 KW
VMW	10555 kHz	CONTINUOUS	F3C	1 KW
VMW	15615 kHz	CONTINUOUS	F3C	1 KW
VMW	18060 kHz	2100-1100	F3C	1 KW

VIVIVV	18060 KHZ 2100-1100	F3C	1 K	VV
TIME	CONTENTS OF TRANSMISSION	RPM/IOC	VALID TIME	MAP AREA
/1200 0015/1215 0030/1230 0045/ 0130/	Australian MSLP Prog (H+36) VMC/VMW Schedule Page 1 of 2 VMC/VMW Schedule Page 2 of 2 VMC/VMW Information Notice IPS Recommended Frequencies for VMC (Charleville)) IPS RECOMMENDED FREQUENCIES FOR VMW	120/576 120/576 120/576 120/576 120/576 120/576	1200	AUST
/1245 /1300 /1315 /1345 /1400 0200/ 0215/	Indian Ocean MSLP Prog (H+36) Australian Sigwx Prog Valid South Pacific Ocean Total Waves (H+48) Indian Ocean Total Waves (H+48) Pacific Ocean Sea Surface Temps (Weekly) Indian Ocean Sea Surface Temps (Weekly) Australian MSLP Prog (H+24) Australian Sigwx Prog Asian Current Warnings Summary	120/576 120/576 120/576 120/576 120/576 120/576 120/576 120/576 120/576	1200 0600 0000 0000 LATEST LATEST 0000 1800 LATEST	IO RSW SWP IO SWP IO AUST RSW H
/1415 0245/1430 /1445 0300/1500 0315/	Casey Eastern and Western High Seas (H+48) Australian MSLP Anal (Manual) Asian Current Warnings Australian 500 hPa Anal Voice Broadcast Information for VMW (Wiluna)	120/576 120/576 120/576 120/576 120/576	0000 00/12 LATEST 00/12	AUST H AUST
/1515 0330/1530 0400/1600 0430/ 0445	Australian MSLP Prog (H+36) Asian Sigwx Prog Valid Australian 500 hPa (H+24) Prog Australian MSLP 4-day forecast, Days 1 and 2 Australian MSLP 4-day forecast, Days 3 and 4 IPS Recommended Frequencies for VMC (Charleville)	120/576 120/576 120/576 120/576 120/576 120/576	1200 12/00 00/12	AUST D AUST
/1700 0600/1800 0623/1823 0645/ 0715/1900 0730/1915 0745/1930 0800/1945 0815/ 0830/	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) Australian Sigwx Prog Indian Ocean MSLP Anal (Manual) Australian Wind Waves Ht(m) Prog Australian Swell Waves Ht(m) Prog (H+24) Asian Current Warnings Summary South Pacific Ocean MSLP Anal Australian MSLP Anal (Manual) South Pacific Ocean MSLP Anal (Manual)	120/576 120/576 120/576 120/576 120/576 120/576 120/576 120/576 120/576	00/12 00/12 0000 00/12 00/12 00/12 00/12 LATEST 0000 0600 1200	A B C RSW IO AUST AUST H SWP AUST SWP
/2015 /2030 /2045 0903/2100 0923/2120 0941/2140 1000/2200 1015/	Casey Eastern and Western High Seas (H+24) Australian MSLP Anal (Manual) Asian Current Warnings Summary Asian 200 hPa Streamline Anal Asian 500 hPa Streamline Anal Asian 700 hPa Streamline Anal Asian Sigwx Prog Casey Eastern and Western High Seas (H+24) Casey Eastern and Western High Seas (H+36)	120/576 120/576 120/576 120/576 120/576 120/576 120/576 120/576	1200 1800 LATEST 00/12 00/12 18/06 0000 1200	AUST H C C C D
1030/2230 1045/2245 1100/ 1115/2300	S.H. 500 hPa Prog (H+48) S.H. MSLP Prog (H+48) Casey Eastern and Western High Seas (H+36) S.H. 500 hPa Anal	120/576 120/576 120/576 120/576	00/12 00/12 0000 00/12	SH SH
	V-1			

## **CHARLEVILLE & WILUNA, AUSTRALIA**

TIME	CONTENTS OF TRANSMISSION	RPM/IOC	VALID TIME	MAP AREA
/2315 1130/ /2330 /2345 1145/	Casey Eastern and Western High Seas (H+48) Asian Sea Surface Temp Anal (Weekly) Australian MSLP Prog (H+36) Indian Ocean MSLP Prog (H+48) VMC/VMW Information Notice	120/576 120/576 120/576 120/576 120/576	1200 LATEST 0000 1200	E AUST IO
NOTES: 1.	ALL WEEKLY OCEANOGRAPHIC PRODUCTS, SUCH AS SEA SURFACE I WERE BROADCAST ONLY ONE DAY A WEEK, ARE NOW BROADCAST E THE CHARTS ARE ONLY UPDATED ONCE A WEEK, BUT BROADCAST E IS AVAILABLE TO REPLACE THE OLD CHART. FOR FURTHER INFORMATION CONTACT:	VERY DAY. HO	OWEVER. NO	OTE

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

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

(Schedule Effective ??????) (INFORMATION DATED 2004)

http://www.bom.gov.au/nmoc/rad\_sch/

# WELLINGTON, NEW ZEALAND

<b>CALL SIGN</b>	<b>FREQUENCIES</b>	TIMES	<b>EMISSION</b>	<b>POWER</b>
ZKLF	3247.4 kHz	0945-1700	F3C	5 KW
	5807 kHz	CONTINUOUS	F3C	5 KW
	9459 kHz	CONTINUOUS	F3C	5 KW
	13550.5 kHz	CONTINUOUS	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 0300/1600 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 SWP TNZ SWP TNZ SWP

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

(INFORMATION DATED MAY 2002) http://www.metservice.co.nz/default/index.php?pkey=191620&ckey=229167

## HONOLULU, HAWAII, U.S.A. Effective until May 16, 2230 UTC

CALL SIGN	FREQUENCIES	TIMES	EMISSION	POWER
KVM70	9982.5 kHz	0533-1630	F3C	4 KW
	11090 kHz	CONTINUOUS	F3C	4 KW
	16135 kHz	1733-0437	F3C	4 KW

TIME	CONTENTS OF TRANSMISSION	RPM/IOC	VALID TIME	MAP AREA
0007/1147/1210 0030/1230 0045/1245 0103/1304 0128/1328 0148/1350 0209/ 0234/ 0258/1444 0309/1503 0320/1522 0331/1541/1607 0354/1618 0405/ 0437/1630 0533/1733	PACIFIC STREAMLINE ANALYSIS  48 HR SURFACE FORECAST EAST PACIFIC GOES IR SATELLITE IMAGE WEST PACIFIC GOES IR SATELLITE IMAGE PACIFIC SURFACE PRESSURE ANALYSIS  48HR SURFACE/1000-500MB THICKNESS F'CAST TROPICAL SURFACE ANALYSIS 24HR STREAMLINE/ISOTACH FORECAST 48HR STREAMLINE/ISOTACH FORECAST 24HR WIND/WAVE FORECAST 48HR/72HR WIND/WAVE FORECAST 72HR/48HR WAVE PERIOD/SWELL DIR REBROADCAST OF 0103/1304 24 HR SURFACE FORECAST 72 HR SURFACE FORECAST 72 HR SURFACE FORECAST PACIFIC SEA STATE ANALYSIS TROPICAL CYCLONE DANGER AREA TEST-ID-SYMBOLS-GENERAL NOTICE	120/576 120/576 120/576 120/576 120/576 120/576 120/576 120/576 120/576 120/576 120/576 120/576 120/576 120/576 120/576 120/576	18/06 1200 LATEST 18/06 18/06 18/06 0000 0000 00/12 00/12 18/06 1200 00/12 18/06 1200 03/15	KGPPJCTDDGGGJGGDM
0545/1745 0605/1804 0630/1827 0645/1842 0656/1853 0721/1918 0741/1937 0800/1956 0823/ 1030/ 1045/2018 1111/2045 /2230 /2335	SIGNIFICANT CLOUD FEATURES PACIFIC STREAMLINE ANALYSIS EAST PACIFIC GOES IR SATELLITE IMAGE WEST PACIFIC GOES IR SATELLITE IMAGE PACIFIC SURFACE PRESSURE ANALYSIS PACIFIC OCEAN SEA SURFACE TEMPS 24 HR WIND/WAVE FORECAST TROPICAL SURFACE ANALYSIS 24 HR SEA STATE FORECAST TROPICAL CYCLONE DANGER AREA SCHEDULE PART II TROPICAL CYCLONE DANGER AREA 24 HR SURFACE FORECAST 48 HR SURFACE FORECAST	120/576 120/576 120/576 120/576 120/576 120/576 120/576 120/576 120/576 120/576 120/576 120/576 120/576 120/576	03/15 00/12 LATEST LATEST 00/12 LATEST 06/18 00/12 1800 0900 2100 0000 0000	AKPPJAGHKM MGG NGHKM MGG

MAP AREAS: A

J - 50N-EQ , 110W-130E K - 30N-30S , 110W-130E M - EQ-40N , 80W-180W EP - 55N-05S , 110W-155E SP - 05N-40S , 130W-165E NPA - 55N-EQ , 110W-160E 50N-30S, 110W-160E 60N-55S, 055W-070E 50N-30S, 100W-120E D 30N-20S, 145W-080W 40N-40S, 105W-120E

(1)TROPICAL STREAM-FUNCTION ANALYSIS AND THE WIND/STREAM-FUNCTION FORECAST CHARTS DISPLAY 1000 MILLIBAR STREAM FUNCTION LINES. FOR SPEEDS IN KNOTS FOR ALL LATITUDES DIVIDE 50 BY THE SPACING BETWEEN THE STREAM FUNCTION LINES EXPRESSED IN DEGREES OF LATITUDE. THESE CHARTS, COMPUTER-GENERATED, ARE PARTICULARLY USEFUL IN THE TROPICS, WHERE THE ISOBARIC SPACING AND WIND-SPEED RELATIONSHIPS BECOME LESS MEANINGFUL. ARROWS ON THE STREAM-FUNCTION ANALYSIS CHARTS DEPICT VELOCITIES IN KNOTS OF THE TOPS OF LOWER CLOUDS DERIVED FROM SUCCESSIVE OBSERVATIONS BY SATELLITE. CAUTION - THESE CHARTS, BEING COMPUTER GENERATED, MAY NOT PROPERLY DELINEATE SMALL, THOUGH INTENSE, SYSTEMS IN DATA-SPARSE AREAS. NOTES ARE MANUALLY ADDED TO DIRECT ATTENTION TO SUCH SYSTEMS WHEN PRESENT.

(2)NORTH PACIFIC SURFACE PRESSURE ISOBARIC ANALYSIS CHARTS, MANUALLY ANALYZED AT THE WEATHER SERVICE FORECAST OFFICE/CENTRAL PACIFIC HURRICANE CENTER, HONOLULU DEPICT THE ISOBARIC (PRESSURE) FIELD NORTH OF 15N.

## HONOLULU, HAWAII, U.S.A. effective until May 16, 2230 UTC

- (3) PACIFIC STREAMLINE ANALYSIS DEPICTS WIND DIRECTION USING STREAMLINES. THE ANALYSIS IS PRODUCED MANUALLY AT THE FORECAST OFFICE AND COVERS THE AREA BETWEEN 30S AND 30N, BETWEEN 130E AND 120W.
- (4)THE 48-HOUR ISOBARIC SURFACE/THICKNESS FORECAST CHARTS DEPICT LINES OF EQUAL PRESSURE IN MILLIBARS (SOLID LINES) AND, CHIEFLY OF INTEREST TO METEOROLOGISTS, 1000-TO-500 MILLIBAR THICKNESSES (DASHED LINES).
- (5)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
- (6) RADIOFAX FREQUENCIES ARE ASSIGNED FREQUENCIES. TO CONVERT TO CARRIER FREQUENCIES, SUBTRACT 1.9 KHZ FROM THE ASSIGNED FREQUENCIES.
- (7) YOU MAY ADDRESS COMMENTS ABOUT THIS BROADCAST TO:

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

(SCHEDULE EFFECTIVE Nov 29, 2005)
(INFORMATION DATED Apr 17, 2006) http://weather.noaa.gov/fax/hawaii.shtml

## HONOLULU, HAWAII, U.S.A. Effective May 16, 06 2230 UTC until Jun 20, 06 2242 UTC

CALL SIGN	FREQUENCIES	TIMES	EMISSION	POWER
KVM70	9982.5 kHz	0533-1630	F3C	4 KW
	11090 kHz	CONTINUOUS	F3C	4 KW
	16135 kHz	1733-0437	F3C	4 KW

TIME	CONTENTS OF TRANSMISSION	RPM/IOC	VALID TIME	MAP AREA
0007/1147/1210 0030/1230 0045/1245 0103/1304 0128/1328 0148/1350 0209/ 0234/ 0258/1444 0309/1503 0320/1522 0331/1541/1607 0354/1618 0405/ 0437/1630 0533/1733 0545/ 1745 0605/1804 0630/1827 0645/1842 0656/1853 0721/1918 0741/1937 0800/1956 0823/ 1030/ 1045/2018 1111/2045	PACIFIC STREAMLINE ANALYSIS 48 HR SURFACE FORECAST EAST PACIFIC GOES IR SATELLITE IMAGE WEST PACIFIC GOES IR SATELLITE IMAGE PACIFIC SURFACE PRESSURE ANALYSIS 48 HR SURFACE/1000-500MB THICKNESS F'CAST TROPICAL SURFACE ANALYSIS 24 HR STREAMLINE/ISOTACH FORECAST 48 HR STREAMLINE/ISOTACH FORECAST 48 HR STREAMLINE/ISOTACH FORECAST 24 HR WIND/WAVE FORECAST 72 HR WIND/WAVE FORECAST 72 HR/48 HR WAVE PERIOD/SWELL DIR REBROADCAST OF 0103/1304 24 HR SURFACE FORECAST 75 IGNIFICANT CLOUD FEATURES TROPICAL CYCLONE DANGER AREA TEST-ID-SYMBOLS-GENERAL NOTICE WIND/WAVE ANALYSIS SIGNIFICANT CLOUD FEATURES PACIFIC STREAMLINE ANALYSIS EAST PACIFIC GOES IR SATELLITE IMAGE WEST PACIFIC GOES IR SATELLITE IMAGE PACIFIC SURFACE PRESSURE ANALYSIS PACIFIC OCEAN SEA SURFACE TEMPS 24 HR WIND/WAVE FORECAST TROPICAL SURFACE ANALYSIS 24 HR WIND/WAVE FORECAST TROPICAL SURFACE ANALYSIS 25 HR WIND/WAVE FORECAST TROPICAL CYCLONE DANGER AREA SCHEDULE PART II	120/576 120/576	18/06 1200 LATEST 18/06 18/06 18/06 0000 00/12 00/12 18/06 1200 00/12 18/06 1200 00/12 LATEST LATEST 00/12 LATEST 06/18 00/12 00/12 LATEST 00/12 00/12 00/12	KGESJCHDDGGGJGGAM KAKESJZGHKM
/2230 /2335 /2345	TROPICAL CYCLONE DANGER AREA 24 HR SURFACE FORECAST 48 HR SURFACE FORECAST	120/570 120/576 120/576	2100 0000 0000	M G G

J - 50N-EQ , 110W-130E K - 30N-30S , 110W-130E M - EQ-40N , 80W-180W EP - 55N-05S , 110W-155E SP - 05N-40S , 130W-165E NPA - 55N-EQ , 110W-160E MAP AREAS: A - 50N-30S, 110W-160E C - 60N-55S, 055W-070E D - 50N-30S, 100W-120E 30N-20S, 145W-080W 40N-40S, 105W-120E

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## HONOLULU, HAWAII, U.S.A. Effective May 16, 06 2230 UTC until Jun 20, 06 2242 UTC

- (2)NORTH PACIFIC SURFACE PRESSURE ISOBARIC ANALYSIS CHARTS, MANUALLY ANALYZED AT THE WEATHER SERVICE FORECAST OFFICE/CENTRAL PACIFIC HURRICANE CENTER, HONOLULU DEPICT THE ISOBARIC (PRESSURE) FIELD NORTH OF 15N.
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(SCHEDULE EFFECTIVE May 01, 2006 at 2230 UTC)
(INFORMATION DATED Apr 17, 2006) http://weather.noaa.gov/fax/hawaii.shtml

# HONOLULU, HAWAII, U.S.A. Effective June 20, 2006 at 2242 UTC

CALL SIG KVM70	N FREQUE 9982.5 11090 16135		<b>TIMES</b> 0519-1556 CONTINUOUS 1719-0356		EMISSION F3C F3C F3C	4 4	OWER KW KW KW
TIME	CONTENTS OF T	RANSMISS	SION		RPM/IOC	VALID	MAP
0519/1719 0524/1724 0535/1735 0555/1755 0615/1815 0635/1835 0649/1849 0701/1901 0714/1914 0727/1927 0740/1940 0753/1953 0806/2006 0816/2016 0826/2026 0836/2036 0846/2046 0856/2056 0906/2106 0917/2117 0930/2130 0943/2143 0954/2154 1102/2242 1102/2302 1115/2315 1128/2328 1141/2341 1154/2354 1214/0014 1234/0034 1248/0048 1300/0100 1320/0120 1340/0140 1400/0200 1410/0210 1420/0220 1430/0230 1510/0330 1510/0330 1510/0330 1510/0330 1556/0356	TEST PATTERN SIGNIFICANT CLO CYCLONE DANGI STREAMLINE AN. SURFACE ANALY EAST PACIFIC GOE 24HR SURFACE F 48HR SURFACE F 72HR SURFACE F WIND/WAVE ANA 24HR WIND/WAV 48HR WIND/WAV 48HR WIND/WAV 48HR WIND/WAV 48HR WIND/WAV 48FACE F 48HR WIND/WAV 48FACE F 48HR WIND/WAV 48FACE F 48HR WIND/WAV 48FACE ANALY TROPICAL GOES II SURFACE ANALY TROPICAL GOES TROPICAL SURF 24HR TROPICAL CYCLONE DANGI 48HR WIND/WAV 72HR TROPICAL 48HR TROPICAL 72HR TROPICAL	DUD FEATI ER AREA ALYSIS OSIS IR SATE OSIS IR SATE FORECAST FORECAST FORECAST EFORECAST EFORECAST EFORECAST EFORECAST EFORECAST EFORECAST IR SATELLI OSIS (PART OSIS (PART IR SATELLI OSIS (PART OSIS (PART OSIS IR SATE III ODUCT NO SURFACE	TELLITE IMAGE ELLITE IMAGE IT IT INST INST INST INST INST INST INS		120/576 120/576	73/15 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 1200 1200	MARE DEBCGHAAABB411111523YZZEBBFBBCGH ZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZ
C. EQ - 50N E. EQ - 40N G. 05S - 55N 1. 20N - 70N 3. 20N - 70N 5. 05N - 55N	110W - 130E , 110W - 130E , 110W - 130E , 80W - 170E , 110W - 155E , 115W - 135E , 175W - 135E , EAST OF 180W , EAST OF 130W	D. 30S - 5 F. EQ - 5 H. 40S - 0 2. 20N - 7 4. 18N - 6	30N, 110W - 130E 50N, 110W - 160E 55N, 110W - 160E 05N, 130W - 165E 70N, 115W - 175W 62N, EAST OF 157W	Honolulu F Honolulu F Honolulu F Ocean Pre Ocean Pre Ocean Pre	Forecast Office Forecast Office Forecast Office Forecast Office ediction Center ediction Center rediction Center		

# HONOLULU, HAWAII, U.S.A. Effective June 20, 2006 at 2242 UTC

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

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(SCHEDULE EFFECTIVE Jun 20, 2006 at 2242 UTC)
(INFORMATION DATED Apr 28, 2006) http://weather.noaa.gov/fax/hawaii.shtml

# EUROPE

## SKAMLEBAEK, DENMARK

CALL SIGN OXT (1)	N FREQU 5850 9360	ENCIES kHz kHz	<b>TIMES</b> 0028-1005 0003-0025	EMISSION F3C		<b>WER</b> KW
	9300	KI IZ	1008-1215 1243-1305 1828-1850	F3C	20	KW
	13855	kHz	1218-1240 1308-1330 1803-1825	F3C	20	KW
	17510	kHz	1333-1355	F3C	20	KW
TIME	CONTENTS OF	TRANSMISS	SION	RPM/IOC	VALID TIME	MAP AREA
0003(2) 0028 0943 1008 1153 1218 1243 1308 1333 1803 1828	ICE CHART #2 (CICE CHART #2 (CICE CHART #1 ICE CHART #1 ICE CHART #1 ICE CHART #2 (CICE CHART #2 (CICE CHART #2 (CICE CHART #1 ICE CHART #1 ICE CHART #1 ICE CHART #1	DR#1) DR #1)		120/576 120/576 120/576 120/576 120/576 120/576 120/576 120/576 120/576 120/576		

NOTES:(1)

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

(INFORMATION DATED Feb 10, 04)

http://www.dmi.dk/dmi/index/viden/sendeplan.htm

## ATHENS, GREECE

CALL SIG SVJ4 SVJ4	N FREQUENCY TIMES 4481 kHz 8105 kHz	<b>EMISS</b> F3C F3C	0.	OWER 4 KW 4KW
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 1200 1200 1200 1200 1200 1200	AAABBBBCCCC

A - SOUTH EUROPE , MEDITERRANEAN SEA, BLACK SEA B - MEDITERRANEAN

C - AEGEAN

(INFORMATION DATED (05/2006)

# HAMBURG/PINNEBERG, GERMANY

CALL SIGNS	FREQUENCIES	TIMES	EMISSION	POWER
DDH3	3855 kHz	CONTINUOUS	F1C	10 KW
DDK3	7880 kHz	CONTINUOUS	F1C	20 KW
DDK6	13882 5 kHz	CONTINUOUS	F1C	20 KW

TIME	CONTENTS OF TRANSMISSION	RPM/IOC	VALID TIME	MAP AREA
/1520 /1540 0430/1600 0512/ 0525/1800	Ice conditions chart West Baltic Sea or special area Ice conditions chart West Baltic Sea or special area Surface weather chart h + 30 (GME) surface pressure surface pressure analysis, arrows showing the movement of pressure	120/576 120/576 120/576 120/576 120/576	0900 0900 00/12 1800 00/12	ANLA
0546/1821 /1834 0559/ 0612/ 0638/ 0704/ 0717/ 0730/1847 0743/ 0804/1900 0817/ 0830/1913 0842/1926	systems, significant weather, ice Information of tropical storms, North Atlantic (during the season ) H+24 (GME) surface pressure H + 12, H + 24 (GME) 500 hPa H + T, surface P H + 12, H + 24 (GME) 850 hPa H + T, 700 hPa U H + 36, H + 48 (GME) 850 hPa H + T, surface P H + 36, H + 48 (GME) 850 hPa H + T, 700 hPa U H + 60, H + 72 (GME) 500 hPa H + T, surface P H + 60, H + 72 (GME) 850 hPa H + T, 700 hPa U Repetition chart 0512 UTC H+48 (GME) surface pressure/ Repetition Repetition chart 0525 UTC H+72 (GME) surface pressure/ Repetition H+96 (GME) surface pressure/ Repetition H+48 (GSM) Sea and swell, Wind (10 m)	120/576 120/576 120/576 120/576 120/576 120/576 120/576 120/576 120/576 120/576 120/576 120/576 120/576 120/576 120/576	03/15 1200 0000 0000 0000 0000 0000 0000 1800 00/00 00/00 00/00 00/00 00/12	
0854/1939 0906/ 0930/2100	H+72 (GSM) Sea and swell, Wind (10 m) H+96 (GSM) Sea and swell, Wind (10 m) Ice conditions chart Northwest Atlantic	120/576 120/576	00/12 00/12	
0945/ 1007/2115 1029/2137 1050/2200 1111/ 1132/	Sea surface temperature North Sea Ice conditions chart West Baltic Sea H+48 wave prediction Surface weather chart Transmission schedule Test chart	120/576 120/576 120/576 120/576 120/576 120/576	1200 1500 00/12 06/18	
1145/	Repetition chart 1050 utc	120/576	0600	

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

(INFORMATION DATED (Oct 10 2005) http://www.dwd.de/de/wir/Geschaeftsfelder/Seeschifffahrt/Sendeplaene/e\_faxplan.htm

# **ROME, ITALY**

CALL SIG IMB51	4777.5 kHz	TIMES CONTINUOUS	EMISSION F3C	<b>PO</b> 5 5	WER KW
IMB55 IMB56		CONTINUOUS CONTINUOUS	F3C F3C	5 5	KW KW
TIME	CONTENTS OF TRANSMISSION		RPM/IOC	VALID TIME	MAP AREA
0048/ 0248/	FL 390, 340, 300, 240, 180, 100, 5 SW TMW FL 100.450 for 12/Z di E	BRACKNELL	120/576 120/576		
0345/ 0400/ 0415/	DP 3H 00/Z; AU 500/00Z AS (ORA LEGALE) 00/Z	n mancanza della SW delle 02:48)	120/576 120/576 120/576		
0425/ 0437/	FRZL 00/Z; AU850 00/Z ITALIA 03/Z		120/576 120/576 120/576		
0457/ 0510/	AS (ORA SOLARE) 00/Z AU 700 00/Z; AU 300 00/Z		120/576 120/576		
0522/ 0535/	AU 200 00/Z;TMW 00/Z SWL for 12/Z		120/576 120/576		
0654/ 0848/	FL 390, 340, 300, 240, 180, 100, 5 SW TMW FL 100–450 for 18/Z di I	50 SW for 18/Z di BRACKNELL BRACKNEL	120/576 120/576		
0859/ 0906/ 0913/	FU 500 H + 36 FU 500 H + 48 FU 500 H + 72		120/576 120/576 120/576		
0920/ 0927/	FU 500 H + 72 FU 500 H + 96 FU 500 H + 120		120/576 120/576 120/576		
1000/ 1030/	SW TMW FL 100–450 18/Z (in ma FS H + 24; DP 3 HR 06/Z	ncanza della SW delle 08:48)	120/576 120/576 120/576		
1045/ 1140/	AS 06/Z SWL for 18/Z		120/576 120/576		
1153/ 1200/	STATO DEL MEDITERRANEO foi ITALIA 09/Z		120/576 120/576		
1248/ 1448/	FL 390, 340, 300, 240, 180, 100, 5 SW TMW FL 100–450 for 00/Z di I	BRACKNELL	120/576 120/576		
1555/ 1610/	SW TMW FL 100–450 for 00/Z (in ITALIA 15/Z	mancanza della Svv delle 14:48)	120/576 120/576		
1630/ 1645/ 1700/	SWL for 00/Z AS 12/Z DP 3HR 12/Z; AU 500/12Z		120/576 120/576 120/576		
1715/ 1730/	AU 700 12/Z; AU 300 12/Z AU 200 12/Z; TMW 12/Z		120/576 120/576 120/576		
1810/ 1900/	FRZL 12/Z; ÁU850 12/Z FL 390, 340, 300, 240, 180, 100, 5	50 SW for 06/Z di BRACKNELL	120/576 120/576		
2048/ 2230/	SW TMW FL 100-450 for 06/Z di I STATO DEL MEDITERRANEO for	BRACKNELL	120/576 120/576		
2240/ 2252/	SWL for 06/Z ITALIA 21/Z		120/576 120/576		
2312/ 2322/	AS 18/Z FS H + 24; DP 3 HR 18/Z	manager della CM della CO(40)	120/576 120/576		
2335/	SW TMW FL 100-40 for 06/Z (in n	nancanza della SVV delle 20:48)	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	3830 kHz 5008 kHz 6987 kHz 7695 kHZ 10980 kHz 12961 kHz	EMISSION F3C F3C F3C F3C F3C F3C F3C	I PC	OWER
RDD78	11617 kHz  CONTENTS OF TRANSMISSION	RPM/IOC	VALID TIME	MAP AREA
0003//1210 0016//1225 0029//1240 0044//1253 0059//1306 0114/ 0151/1333/1355 0215/1417 0245/1447 0307/1509 0337/1539 0407/1609 0437/1639 0513/1715 0543//1745 0555//1745 0555//1817 0619//1817 0619//1832 0644//1847/1847/1832 0644//1847/1902 0704//1930 0739//1956/2009 0822//1956/2009 0822//2101 0922//2031 0852//2009 0822//2011 0922//2101 0922//2101 0922//2201 1013//2216	18HR SIGNIFICANT WEATHER PROG BELOW 400MB 24HR 300MB PROG 18HR 400MB PROG 30HR 200MB PROG 30HR 250MB PROG 30HR 250MB PROG 30HR 250MB PROG 18HR 300MB PROG 18HR 300MB PROG 18HR 300MB PROG 18HR 300MB PROG 18HR SIGNIFICANT WEATHER PROG BELOW 400MB 30HR 250MB PROG 18HR SIGNIFICANT WEATHER PROG BELOW 400MB 30HR SIGNIFICANT WEATHER PROG 500MB ANALYSIS 500MB ANALYSIS 500MB ANALYSIS 500MB ANALYSIS 500MB ANALYSIS 500MB ANALYSIS 1000/500MB THICKNESS ANALYSIS 500MB ANALYSIS 1000/500MB THICKNESS ANALYSIS 24HR SURFACE PROG 24HR/36HR 700MB PROG 24HR/36HR 700MB PROG 24HR/36HR 500MB PROG 30HR 250MB PROG 30HR 250MB PROG 30HR 250MB PROG 30HR 300MB ROG 30HR	120/576 120/576 120/576 120/576 120/576 120/576 120/576 120/576 120/576 120/576 120/576 120/576 120/576 90/576 90/576 90/576 90/576 120/576 90/576 90/576 90/576 90/576 90/576 90/576 90/576 90/576 90/576 90/576 90/576 90/576 90/576 90/576 90/576 90/576 90/576	1200 0000 1200 0000 1200 0000 1200 1200	$G^X A X C C C C C C C C$

## 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/	24HR SIGNIFICANT WE 18HR SIGNIFICANT WE 24HR 200MB PROG 18HR 300MB PROG 24HR 250MB 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	: 1:15,000,000 - 1:30,000,000 - 1:05,000,000 - 1:07,500,000 - 1:30,000,000 - 1:20,000,000	56N 018W, 03N 097W, 67N 002E, 61N 010E, 39N 066W, 32N 051W,	03S 027W, 42N 028E, 43N 022E, 08N 014E,	30N 016W, EQ 142E, 74N 061E, 61N 071E, 18N 149E, 32N 167E,	05S 0 44N 0 43N 0 02S 0	155E 159E 188E	
X	- 1:30,000,000		EMISPHERE 90				

(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	TIMES  CONTINUOUS 1900-0600 0600-1900	EMISSION F3C F3C F3C F3C	N PC	OWER
TIME	CONT	ENTS OF TR	RANSMISSIO	N	RPM/IOC	VALID TIME	MAP AREA
0700 0800 1400 1400 1430 1850 2000	ANAL OF IC 24HR SEA S	ANALYSIS EMP ANALY EBERG POS TATE PROG T SCHEDULI	ITIONS FOR	G 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

#### 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	FREQUENCIE	S TIMES	<b>EMISSION</b>	POWER
GYA	2618.5 kHz	At least 2 freg in use at any time	F3C	10 KW
GYA	4610 kHz	At least 2 freg in use at any time	F3C	10 KW
GYA	8040 kHz	At least 2 freq in use at any time	F3C	10 KW
GYA	11086.5 kHz	At least 2 freg in use at any time		10 KW

TIME	CONTENTS OF TRANSMISSION	RPM/IOC	VALID TIME	MAP AREA
0000/1200 0012/1212 0024/1224 0036/1236 0048/1248 0100/130 0124/1324	SFC ANALYSIS SFC PRONOSIS T+24 850MB WEBT/PPTN T+24 OAT AND TD CONTOUR T+24 SHIP ICE ACCRETION MAIN SCHEDULE QSL REPORT OCEAN FRONTS 300MB GPH SYMBOLOGY SEA SURFACE TEMP T+12 SFC ANALYSIS SFC ANALYSIS GALE WARNING SUMMARY SFC ANALYSIS OAT AND TD CONTOUR T+24 850MB WEBT/PPTN T+24 SURFACE PROGNOSIS T+24 SURFACE PROGNOSIS T+24 SURFACE PROGNOSIS T+48 SCEXA TAFS GALE WARNING SUMMARY SFC ANALYSIS SURFACE PROGNOSIS T+24 JMC T+12 JMC T+12 JMC T+24 SCEXA TAFS SIG WINDS T+24 SCEXA TAFS SIG WINDS T+24 SCEXA TAFS SIG WINDS T+24 SFC PROGNOSIS T+72 SFC PROGNOSIS T+24 SIG WINDS T+48 SIG WINDS T+72 SIG WINDS T+72 SIG WINDS T+74 SIG WI	120/576 120/576 120/576 120/576 120/576 120/576	18/06 18/06 18/06 18/06 12/00	
0136/1336 0148/1348 0212/	OCEAN FRONTS 300MB GPH SYMBOLOGY	120/576 120/576 120/576	18/06	
/1400 0236/1436 0300/1500 0348/1548 0400/1600 0412/1612	SEA SURFACE TEMP T+12 SFC ANALYSIS SFC ANALYSIS GALE WARNING SUMMARY SFC ANALYSIS OAT AND TD CONTOUR T+24	120/576 120/576 120/576 120/576 120/576 120/576	0000 00/12 00/12 04/16 00/12 00/12	
0424/1624 0436/1636 0448/1648 0500/1700 0512/1712	850MB WEBT/PPTN T+24 SURFACE PROGNOSIS T+24 SCEXA TAFS SFC ANALYSIS SURFACE PROGNOSIS T+24	120/576 120/576 120/576 120/576 120/576	00/12 00/12 06/18 00/12 00/12	
0524/1724 0536/1736 0548/1748 0600/1800 0612/1812 0624/1824	SURFACE PROGNOSIS T+48 SCEXA TAFS GALE WARNING SUMMARY SFC ANALYSIS SURFACE PROGNOSIS T+24 JMC T+12	120/576 120/576 120/576 120/576 120/576 120/576	00/12 06/18 06/18 00/12 00/12 00/12	
0636/1836 0648/1848 0700/1900 0712/1912 0724/1924	JMC T+12 JMC T+24 SCEXA TAFS SPARE SCEXA TAFS SIG WINDS T+24 SFC PROGNOSIS T+48	120/576 120/576 120/576 120/576 120/576	00/12 00/12 07/19 07/19 00/12 00/12	
0736/1936 0748/1948 0800/2000 0812/2012 0824/2024 0836/2036	SFC PROGNOSIS T+72 SFC PROGNOSIS T+96 SFC PROGNOSIS T+120 THICKNESS/GPH ANALYSIS SIG WINDS T+48 SIG WINDS T+72	120/576 120/576 120/576 120/576 120/576 120/576	00/12 00/12 00/12 00/12 00/12 00/12	
0848/2048 0900/2100 0912/2112 0924/2124 0936/2136 0948/2148	SIG WINDS T+96 SFC ANALYSIS THICKNESS/GPH ANALYSIS THICKNESS/GPH T+24 850MB SPOT WINDS T+24 700MB SPOT WINDS T+24	120/576 120/576 120/576 120/576 120/576 120/576 120/576	00/12 06/18 00/12 00/12 00/12 00/12	
1000/2200 1012/2212 1024/2224 1036/2236 1048/2248 1100/2300	OAT AND TD CONTOUR T+24 SFC ANALYSIS	120/576 120/576 120/576 120/576 120/576 120/576	06/18 06/18 06/18 06/18 06/18 06/18	
1112/2312 1124/2324 1136/2336 1148/2348	SURFACE PROGNOSIS T+24 SEA AND SWELL T+24 THICKNESS/GPH T+24 GALE WARNING SUMMARY	120/576 120/576 120/576	06/18 00/12 00/12	

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

# APPINDICES

# NATIONAL WEATHER SERVICE MARINE PRODUCTS VIA INTERNET INCLUDING RADIOFAX

The Internet is <u>not</u> part of the National Weather Service's operational data stream and should never be relied upon as a means to obtain the latest forecast and warning data. Become familiar with and use other means such as NOAA Weather Radio to obtain the latest forecasts and warnings.

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

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

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

#### Marine Text Forecasts and Products

The majority of National Weather Service (NWS) forecasts and warnings may be found under the **NWS webpage** (http://www.nws.noaa.gov). Of specific interest to mariners are **NWS Marine Text Forecasts and Products** (http://www.nws.noaa.gov/om/marine//home.htm#text) . For convenience, High Seas, Offshore and Coastal marine forecasts are subdivided by sea area or zone and available via the Internet using our text interface or graphic interface. **Individual NWS Forecast Offices and Centers** producing marine forecasts provide links to their products as well as additional regionally focused information (http://www.nws.noaa.gov/om/marine/marine map.htm).

Marine Graphic Forecasts and Products

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

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

Also see Computer Generated Model Guidance below.

Satellite and RADAR Imagery

Satellite imagery may be found on the GOES webpage (http://www.goes.noaa.gov/) and is also available from NASA (http://rsd.gsfc.nasa.gov/goes/). Ocean surface winds and other data derived from polar orbiting and geostationary satellites may be found on NOAA's Marine Observing Systems Team Homepage (http://manati.wwb.noaa.gov/doc/oppt.html) and NOAA's Coastwatch Homepage. (http://coastwatch.noaa.gov/). Information and links to Sea Surface Temperature Charts and Gulf Stream charts may be found on our FAQ webpage (http://www.nws.noaa.gov/om/marine/faq.htm). NEXRAD Doppler Radar images (http://weather.noaa.gov/radar/mosaic/DS.p19r0/ar.us.conus.shtml) are available on the Internet on the NWS Homepage (http://www.nws.noaa.gov/om/marine/marine\_map.htm). NEXRAD Doppler Radar images (http://www.nws.noaa.gov/om/marine/marine\_map.htm). NEXRAD Doppler Radar images may also be found on local cable channels and the Internet webpages of local media including TV stations, radio stations and newspapers as well as others

Ice Analyses, Forecasts and Iceberg Reports

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

## **Computer Generated Model Guidance**

Computer generated model guidance products used by marine forecasters is available from the Ocean Modeling Branch (http://polar.wwb.noaa.gov/), the Environmental Modeling Center (http://www.emc.ncep.noaa.gov/), the National Ocean Services's Chesapeake Bay Operational Forecast System (http://140.90.121.76/ofs/cbofs/cbofs.shtml), and the Great Lakes Forecasting **System** (http://superior.eng.ohio-state.edu/).

The **Weather Charts webpage** (http://weather.noaa.gov/fax/graph.shtml) contains charts, intended as guidance to forecasters, which can prove of value to mariners. Note: Several charts listed under "Weather Charts", which are no longer required to support NWS operations, may be terminated or made available at alternate sites. This should not include those which are broadcast by marine radiofacsimile.

Caution...these data have not been validated by marine forecasters and may be misleading. Mariners should use these data in conjunction with forecaster generated forecasts.

Marine Climatolgical Information

User-friendly climatological information for marine coastal areas may be found in Appendix T of the National Ocean Service's Coast Pilot's, volumes 1-9 (http://chartmaker.ncd.noaa.gov:80/nsd/cpdownload.htm). These appendices, which were prepared by the National Climatic Data Center (http://lwf.ncdc.noaa.gov/oa/ncdc.html), also contain other useful meteorological information such as conversion tables. Visit their webpage for further information.

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

Foreign Marine Forecasts

Links to foreign meteorological services (http://www.wmo.ch/web-en/member.html) are available courtesy of the World Meteorological Organization (WMO) (http://www.wmo.ch). The WMO also provides links to marine webpages for member countries http://www.wmo.ch/web/aom/marprog/links.html).

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

**Buoy and Other Real-Time Observations** 

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

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

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

Tide Predictions, Observations and Storm Surge Forecasts
Near real-time Water Level Observations, and Predicted Tide Information
http://tidesandcurrents.noaa.gov/) for the calendar year are available from the National Ocean
Service (http://www.nos.noaa.gov). Read the NOS Tides FAQ
(http://tidesandcurrents.noaa.gov/faq1.html) for further information on obtaining NOS tides and
tidal current data. Caution is urged in using tide data made available at University and other
webpages. This information may not be based on current government data and be of unknown
quality.

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

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

The National Ocean Service's Chesapeake Bay Operational Forecast System (http://140.90.121.76/ofs/cbofs/cbofs.shtml) has been created by NOS to provide the maritime community with improved short-term predictions of water level in the Chesapeake Bay. *Please be advised that these predictions are based on a hydrodynamic model and, as such, should be considered as computer-generated forecast guidance.* 

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

## **Voluntary Observations from Mariners**

All NWS marine forecasts rely heavily on the Voluntary Observing Ship (VOS) program (http://www.vos.noaa.gov/) for obtaining meteorological observations. Ship observations may also be found on the National Data Buoy Center - Observations Search (http://www.ndbc.noaa.gov/obs\_search.shtml), National Data Buoy Center - Ships Observation Report (http://www.ndbc.noaa.gov/ship\_obs.phtml), NOAA's Forecast Systems Laboratory (choose maritime) (http://www-frd.fsl.noaa.gov/mesonet/), CoolWX (http://www.coolwx.com/buoydata/), SAILWX (http:// www.sailwx.info) , and Oceanweather (http://www.oceanweather.com/data/index.html) webpages

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

Marine Webpages

The Internet contains a great number of webpages of interest to the mariner. Visit **our Links webpage** (http://www.nws.noaa.gov/om/marine/mlinks.htm) for a listing of recommended webpages pertaining to Marine Weather. The **U.S. Coast Guard Maritime Telecommunications Information webpage** (http://www.navcen.uscg.gov/marcomms) contains an excellent description of marine communication systems. There are also many other Internet sites of interest to the mariner. Use one the Internet search engines to search on topics such as "marine weather", "radiofax", "radiofacsimile", "weather buoys", "tides", etc. The NOAA Library (http://www.lib.noaa.gov) provides an excellent listing of links to marine related webpages within NOAA and elsewhere

Marine Weather Publications On the Web

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

### Internet Access for Mariners

Internet at sea can be problematic unless you stay within cellular telephone range of shore. Internet access using cellular technology is technically challenging and potentially frustrating as well. Terrestrial wireless Internet services such as those provided by **GoAmerica** (www.goamerica.net), **TeleSea** (http://www.teleseawireless.net//) and **Motient** (http://www.motient.com/), are beginning to become available, however, these provide limited maritime coverage. These companies may employ "Marine WIFI" technology which is rapidly becoming popular at marinas and in favorite harbor areas. Satellite services including **Inmarsat** (www.inmarsat.org), **Iridium** (www.iridium.com/), **Globalstar** (www.globalstarusa.com), **Thuraya** (www.thuraya.com), **Emsat** (www.eutelsat.com/products/2\_4\_2.html), **AceS** (www.acesinternational.com/), **tracNet/DirecPC** (www.kvh.com/MarineSat/index.asp?flash=yes), **Mobile Satellite Ventures** (www.tmi.ca), **Boatracs** (www.boatracs.com, **Orbcomm** (www.orbcomm.com), **Digital Seas International**(http://www.mtnsat.com/digitalseas.htm), and **MTN** (www.mtnsat.com) are available, however, costs are generally greater.

Several companies offer e-mail services designed to optimize satellite connectivity including MAILASAIL (http://www.mailasail.com/), MarineNet (http://www.marinenet.net/), OCENS (http://www.ocens.com/cgi-bin/ocens\_mail.pl?p=info), Telaurus (http://www.telaurus.net/) and UUPLUS (http://www.uuplus.com/). Full Internet access is often available if you have a satellite terminal onboard, but presently unless you restrict your use to e-mail messages, costs can be high. A number of satellite services such as Inmarsat-C offer e-mail messaging services only and provide no direct access to the World Wide Web. Several transmission and data compression schemes are available and in development to make the Web more accessible to the mariner. There are also several public FTP-to-EMAIL and WWW-to-EMAIL servers available to allow Internet access for users who do not have direct or cost effective access to the World Wide Web but who are equipped with an e-mail system. Visit http://www.faqs.org/faqs/internet-services/access-via-email/ for information. Low cost, worldwide, access to the World Wide Web via satellite should be available to the mariner in the next five to ten years.

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

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

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

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

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

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

National Weather Service marine text forecasts and radiofax charts are available via e-mail. Further, FTPMAIL may be used to acquire any file on a \*.noaa.gov FTP server. The FTPMAIL server is intended to allow Internet access for mariners and other users who do not have direct access to the World Wide Web but who are equipped with an e-mail system. Turnaround is generally in under one hour, however, performance may vary widely and receipt cannot be guaranteed. To get started in using the NWS FTPMAIL service, follow these simple directions to obtain the FTPMAIL "help" file (11 KBytes), or visit http://weather.noaa.gov/pub/fax/ftpmail.txt.

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

Put anything you like

Body:

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

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

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

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

### National Hurricane Center Listserver

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

#### **Internet Broadcasts**

Marine weather data may also be obtained via the Internet using **EMWIN** (http://www.nws.noaa.gov/om/marine/emwin.htm). As part of the **New NOAA Weather Wire** Service (http://www.nws.noaa.gov/om/marine/wxwire.htm). Computer Sciences Corporation (http://dynis.fedcsc.com/contracts/other/nwws/options.htm) broadcasts the entire Weather Wire product stream on the Internet as a commercial service.

## Change Notices

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

http://www.nws.noaa.gov/oso/notices/notices.shtml). A summary of recent changes of most interest to mariners and coastal residents may be found at http://www.nws.noaa.gov/om/marine/recent.htm

### Directories of NWS Marine Forecasts

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

http://weather.noaa.gov/pub/data/forecasts/marine/ ftp://weather.noaa.gov/data/forecasts/marine/ http://weather.noaa.gov/pub/data/raw/ftp://weather.noaa.gov/data/raw/ http://iwin.nws.noaa.gov/pub/data/text/ ftp://iwin.nws.noaa.gov/data/text/ http://iwin2.nws.noaa.gov/pub/data/text/ ftp://iwin2.nws.noaa.gov/data/text/

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

http://asp1.sbs.ohio-state.edu/text/marine/

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

http://weather.noaa.gov/pub/fax/ ftp://weather.noaa.gov/fax/

http://www.opc.ncep.noaa.gov/shtml/

## NATIONAL WEATHER SERVICE INTERNET SITES

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

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

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

NWS Marine Radiofax Products http://www.nws.noaa.gov/fax/marine.shtml

NWS Voluntary Observing Ship Program http://www.vos.noaa.gov

AMVER/SEAS Homepage http://seas.amverseas.noaa.gov/seas/

## U.S. NAVY AND OTHER WEATHER INTERNET SITES

See these sites for further links

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

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

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

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

WMO Homepage http://www.wmo.ch

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

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

\* WARNING

\*

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

\*

(Reference Public Law 99-474)

\* For Help contact:

\*

\* Timothy.Rulon@noaa.gov 301-713-1677 x 128

\*

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

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

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

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

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

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

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

depending on your system and the type of file.

Files sizes for NWS radiofax graphic files average 35KB but can be much greater. Users should be aware of the costs for operating their particular e-mail system before attempting to use FTPMAIL, especially when using satellite communication systems. For marine users, using FTPMAIL via INMARSAT-C for obtaining current NWS radiofax graphic files is cost prohibitive. Using the FTPMAIL compression feature of FTPMAIL is not recommended as these files are already in a compressed T4(G4) format enveloped in TIFF for viewing. You will need a graphics program capable of displaying files in this format in order to view them. Suggestions for TIFF viewers may be found in file http://weather.noaa.gov/fax/rfaxtif.txt

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

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

#### To use FTPMAIL:

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

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

Example scripts are:

help

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

open cd fax get PWAE98.TIF quit

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

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

Connect to default\_site (weather.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 (weather.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 (weather.noaa.gov) and send back the
     contents of the top level directory to captain.kidd@noaa.gov
open www.ndbc.noaa.gov
cd data
cd latest_obs
get 42007.txt
get gdill.txt
quit
     Connect to the National Data Buoy Center's FTP server and send
     back the latest observations for buoy #42007 and C-MAN station
     GDIL1
open
cd fax
                    (List of FTPMAIL commands)
get ftpcmd.txt
get rfaxtif.txt
                    (TIFF suggestions)
get rfaxatl.txt
                    (Atlantic radiofax file directory)
get rfaxpac.txt
                    (Pacific radiofax file directory)
                    (Gulf of Mexico and Trop Atl radiofax file dir)
get rfaxmex.txt
get rfaxak.txt
                    (Alaska radiofax and ice file directory)
get rfaxhi.txt
                    (Hawaii radiofax file directory)
                    (Foreign charts file directory)
get otherfax.txt
get marine1.txt
                    (Highseas, Offshore, Open Lakes, NAVTEX text file dir)
                    (Hurricane text file directory)
get marine2.txt
                    (Coastal forecasts text file directory)
get marine3.txt
                    (Offshore forecasts by zone directory)
get marine4.txt
get marine5.txt
                    (Atlantic coastal forecasts by zone directory)
get marine6.txt
                    (Pacific coastal forecasts by zone directory)
                    (Gulf of Mexico coastal forecasts by zone dir)
get marine7.txt
get marine8.txt
                    (Great Lakes coastal forecasts by zone directory)
get marine9.txt
                    (Alaska coastal forecasts by zone directory)
get marine10.txt
                    (Hawaii&Trust coastal forecasts by zone directory)
get uk.txt
                    (UK marine forecasts from Bracknell directory)
get canada.txt
                    (Canadian marine text forecast directory)
                    (Buoy and C-MAN data directory)
get buoydata.txt
                    (Marine forecasts via e-mail systems)
get robots.txt
quit
```

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

Many, but not all National Weather Service forecast products may be

obtained using FTPMAIL if the WMO/AWIPS Header is known as follows. Be aware that several NWS products share WMO headers so the desired forecast may be overwritten at times by another product.

#### Example:

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

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

Put anything you like open iwin.nws.noaa.gov

Body:

cd data cd text cd FZNT01 get KWBC.TXT

auit

or

Send an e-mail to:

Subject Line:

Body:

ftpmail@weather.noaa.gov Put anything you like

open cd data cd raw cd fz

get fznt01.kwbc.hsf.at1.txt

quit

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

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

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

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

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. We are working to develop a version of FTPMAIL which parses these control characters.

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

Problems may also be encountered in trying to go down several levels of directories simultaneously, e.g. "cd data/forecasts/marine/test". Use a series of commands "cd data", "cd forecasts", "cd marine" instead. In both these instances, the likely error will be "Directory not Found"

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

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

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

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

An FAQ webpage describing several public and commercial FTP-to-EMAIL and WWW-to-EMAIL servers may be found at: www.faqs.org/faqs/internet-services/access-via-email/

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

Last Modified December 20, 2005

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

```
***FTPMAIL commands for ftpmail@weather.noaa.gov FTPMAIL server***
FTP's files and sends them back via electronic mail
NOTE: *.noaa.gov are the only valid FTP sites for this FTPMAIL server.
NOTE: Capitalization is critical for this server. Commands are
      un-capitalized, while some directory and file names are
      CAPITALIZED, while others are un-capitalized.
To use FTPMAIL:
o Send an E-mail via the Internet to ftpmail@weather.noaa.gov
o Put anything you like on the subject line
o Enter a command script in the body of the message
Example scripts are:
reply-to lmjm@server.big.ac.uk
open
dir
quit
     Connect to default_site (weather.noaa.gov) and send back the
     contents of the top level directory to lmjm@server.big.ac.uk
open
cd fax
get PWAG01.TIF
quit
     Connect to default site (weather.noaa.gov) and send back the
     chart file PWAG01.TIF to e-mail address of requestor
>>Valid commands to the ftpmail gateway are:
reply-to email-address
                         Who to send the response to. This is optional
                         and defaults to the users email address
>>Followed by one of:
help
                         Just send back help
delete jobid
                         Delete the given job
                   (jobid is received from server)
open [site [user [pass]]]
                         Site to ftp to. Default is:
                         default_site anonymous reply-to-address.
>>If there was an open then it can be followed by up to 100 of the
>>following commands
cd pathname
                         Change directory.
```

cd .. Move up 1 directory.

cd / Move to the root directory.

ls [pathname] Short listing of pathname.

Default pathname is current directory.

dir [pathname] Long listing of pathname.

Default pathname is current directory.

get pathname Get a file and email it back.

compress Compress files/dir-listings before emailing back

gzip Gzip files/dir-listings before emailing back

uuencode These are mutually exclusive options for btoa converting a binary file before emailing.

(Default is uuencode.)

force uuencode Force all files or directory listings to

force btoa be encoded before sending back.

There is no default.

mime Send the message as a Mime Version 1.0 message.

Text will be sent as text/plain charset=US-ASCII

Non-text as application/octet-stream.

If the file is splitup then it will be sent

as a message/partial.

force mime As mime but force text files to be sent as

application/octet-stream

no [compress|gzip|uuencode|btoa|mime]

Turn the option off.

size num[K|M] Set the max size a file can be before it

is split up and emailed back in parts to the given number of Kilo or Mega bytes. This is limited to 275KB. Default is 275KB.

mode binary Change the mode selected for the get

mode ascii command. Defaults to binary.

quit End of input - ignore any following lines.

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

Last Modified August 01, 2003

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

ftp://weather.noaa.gov/fax/ftpcmd.txt

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

```
Commercial Viewers for DOS/Windows 3.1
HyperFax.111 by Hypersoft
                                         (603) 356-0210
Viewdirector by TMS, Inc.
                                         (800) 944-7654
Imagehandler by LeadTools
                                         (800) 637-4699
Keyview by FTP Software
                                         (800) 242-4FTP
Snowview Platinum by Snowbound Software (617) 630-9495
Shareware viewers for DOS/Windows 3.1
Paint Shop Pro 3.0 by Jasc, Inc. (612) 930-9171
Graphic Workshop v1.1p
VIDVUE v1.1 by L. Gozum
QuickView v1.2e (limited - can't rotate)
Shareware viewers for OS/2
PMJPEG
PMView v0.9
Shareware viewer for Apple/MAC
GraphicConverter 2.6
All programs that support Quicktime 6.0+
Netscape 7.0 (Free)
Internet Explorer 5.1 (Free)
Eudora Pro 4.2 (shareware)
PictureViewer QT 6.0 (Free included with Macs)
Graphic Converter 3.6 - 4.x (shareware)
Canvas 7.0 +
Photoshop Elements 2.0 (Free with Wacom Tablets etc.)
Photoshop 6.0 +
Canon file viewer utility 1.3.2.9 (included with Canon Digital cameras)
Media Assistant 2.0.4 (image cataloger) Low cost
Cumulus 5.5 (Image Cataloger) Low cost
Author: Timothy Rulon, W/OS21, National Weather Service
       Last Modified Tuesday, Oct 25, 04
       Document URL: http://tgsv5.nws.noaa.gov/pub/fax/rfaxtif.txt
```

# NATIONAL WEATHER SERVICE RADIOFAX PRODUCTS for the Western Atlantic Ocean

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

Assigned frequencies 4235.0, 6340.5, 9110, 12750 kHz

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

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

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

.TIF files now also available as .gif files

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

#### PAY ATTENTION TO CAPITALIZATION:

Example using FTPMAIL:

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

Body: open cd fax

get PPAE10.TIF
get PWAE98.gif

quit

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

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

Body: help

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

48HR Wind/Wave VT12Z Forecast 10E-95W Northern Hemisphere 48HR Wind/Wave Chart Forecast (Most Current) 48HR Wave Period VT00Z Forecast 10E-95W Northern Hemisphere 48HR Wave Period VT12Z Forecast 10E-95W Northern Hemisphere 48HR Wave Period Chart Forecast (Most Current) 96HR Wind/Wave Chart VT12Z Forecast 10E-95W N. Hemisphere 96HR Wave Period VT12Z Forecast 10E-95W N. Hemisphere	PJAI99.TIF PJAI10.TIF PJAI88.TIF PJAI89.TIF PJAI20.TIF PJAM98.TIF PJAM88.TIF
SURFACE CHARTS	
00Z Preliminary Surface Chart Analysis 45W-85W N. Hemisphere 06Z Preliminary Surface Chart Analysis 45W-85W N. Hemisphere 12Z Preliminary Surface Chart Analysis 45W-85W N. Hemisphere 18Z Preliminary Surface Chart Analysis 45W-85W N. Hemisphere 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 2, 40W-95W N. Hemisphere 18Z Surface Analysis Chart, Part 2, 40W-95W N. Hemisphere 18Z Surface Analysis Chart, Part 2, 40W-95W N. Hemisphere 18Z Surface Chart VT00Z Forecast 45W-85W Northern Hemisphere 1824HR Surface Chart VT12Z Forecast 45W-85W Northern Hemisphere 1824HR Surface Chart VT00Z Forecast 10E-95W Northern Hemisphere 18Z Surface Chart VT12Z Forecast 10E-95W Northern Hemisphere	PYAA10.TIF PYAB01.TIF PYAC01.TIF PYAC01.TIF PYAD01.TIF PYAD10.TIF PYAA01.TIF PYAA02.TIF PYAA03.TIF PYAA05.TIF PYAA05.TIF PYAA05.TIF PYAA06.TIF PYAA07.TIF PYAA08.TIF PYAA11.TIF PYAA11.TIF PYAA12.TIF PPAE00.TIF PPAE01.TIF PPAE10.TIF QDTM85.TIF QDTM86.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 45W-85W Northern Hemisphere @24HR 500MB Chart VT12Z Forecast 45W-85W 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) 96HR 500MB Chart VT12Z Forecast 10E-95W Northern Hemisphere	PPAA50.TIF PPAA51.TIF PPAA10.TIF PPAE50.TIF PPAE51.TIF PPAG50.TIF PPAG51.TIF PPAG51.TIF PPAG51.TIF PPAG51.TIF PPAI50.TIF PPAI50.TIF PPAI51.TIF
	PPAM50.TIF
TROPICAL CYCLONE CHARTS	PPAM50.TIF
TROPICAL CYCLONE CHARTS  Tropical Cyclone Danger Area* VT03, 05N-60N, 00W-100W; Tropical Cyclone Danger Area* VT09, 05N-60N, 00W-100W; Tropical Cyclone Danger Area* VT15, 05N-60N, 00W-100W; Tropical Cyclone Danger Area* VT21, 05N-60N, 00W-100W; Tropical Cyclone Danger Area* (Most Current);	PPAM50.TIF  PWEK89.TIF  PWEK90.TIF  PWEK91.TIF  PWEK88.TIF  PWEK11.TIF
Tropical Cyclone Danger Area* VT03, 05N-60N, 00W-100W; Tropical Cyclone Danger Area* VT09, 05N-60N, 00W-100W; Tropical Cyclone Danger Area* VT15, 05N-60N, 00W-100W; Tropical Cyclone Danger Area* VT21, 05N-60N, 00W-100W;	PWEK89.TIF PWEK90.TIF PWEK91.TIF PWEK88.TIF

18Z GOES IR Satellite Image, Atlantic
W Atlantic or Atlantic (Most Current)

evnt18.jpg evnt99.jpg

#### ICE CHARTS

# SCHEDULE INFORMATION

Radiofax Schedule Part 1 (Boston, MA)

Radiofax Schedule Part 2 (Boston, MA)

Radiofax Schedule (DOS Text Version)

Request for Comments

PLAZ03.TIF

Product Notice Bulletin

Test Pattern

Internet File Names (This file)

PLAZ04.TIF

rfaxatl.txt

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

Effective May 16, 2006 at 1900 UTC, the map area for several Boston wind/wave, surface and 24 HR 500 MB charts will change from a polar stereographic to a mercator projection, and the areal coverage of the 24 HR 500 MB charts will be expanded to the same basin-wide projection as the current 36...48 and 96 hour charts as follows:

@ 10E-95W after May 16, 2006 # 40W-98W after May 16, 2006

Many of these charts also broadcast from New Orleans, LA

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

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

Last Modified Apr 10, 2006

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

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

Assigned frequencies 4346, 8682, 12786, 17151.2, 22527 kHz

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

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

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

.TIF files now also available as .gif files

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

PAY ATTENTION TO CAPITALIZATION:

Example using FTPMAIL:

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

Body: open cd fax

get PWBE10.TIF
get PWBM99.gif

quit

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

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

Body: help

	FILE
WIND/WAVE CHARTS	NAME
00Z Sea State Analysis 20N-70N, 115W-135E	PJBA99.TIF
#@00Z Wind/Wave Analysis 25N-60N, E OF 155W	PWBA88.TIF
#06Z Wind/Wave Analysis 25N-60N, E OF 155W	PWBB88.TIF
#12Z Wind/Wave Analysis 25N-60N, E OF 155W	PWBA89.TIF
#18Z Wind/Wave Analysis 25N-60N, E OF 155W	PWBD89.TIF
# Wind/Wave Analysis 25N-60N, E OF 155W (Most Current)	PWBA90.TIF
#24HR Wind/Wave Forecast VT00Z 25N-60N, E of 155W	PWBE98.TIF
#24HR Wind/Wave Forecast VT12Z 25N-60N, E of 155W	PWBE99.TIF
#24HR Wind/Wave Forecast (Most Current)	PWBE10.TIF
48HR Wind/Wave Forecast VT00Z 20N-70N, 115W-135E	PJBI98.TIF
48HR Wind/Wave Forecast VT12Z 20N-70N, 115W-135E	PJBI99.TIF

AOUD Him I Wasse Flowers to (March Comment)	DIDIIO MID
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
72IIC WAVE TELIOA/BWEIT DITECTION VIOUZ ZOD SON,E OT 113W	1011/05.111
SURFACE CHARTS	
SORFACE CHARTS	
00Z Surface Analysis NE Pacific (Part 1) 20N-70W, 115W-175W	PYBA01.TIF
00Z Surface Analysis NW Pacific (Part 1) 20N-70W, 115W-175W 00Z Surface Analysis NW Pacific (Part 2) 20N-70W, 175W-135E	PYBA02.TIF
06Z Surface Analysis NW Pacific (Part 2) 20N-70W, 175W-135E	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

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 25N-60W, E of 155W	PPBE00.TIF
#24HR Surface Forecast VT12Z Forecast 25N-60W, E of 155W	PPBE01.TIF
#24HR Surface Forecast (Most Current)	PPBE10.TIF
48HR Surface Forecast VT00Z 20N-70W, 115W-135E	PWBI98.TIF
48HR Surface Forecast VT12Z 20N-70W, 115W-135E	PWBI99.TIF
48HR Surface Forecast (Most Current)	PWBI10.TIF
96HR Surface Forecast 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 @24HR Tropical Surface ForecastVT12,20S-30N,80W-145W @24HR Tropical Surface Forecast(Most Current); @48HR Tropical Surface ForecastVT00,20S-30N,80W-145W @48HR Tropical Surface ForecastVT12,20S-30N,80W-145W @48HR Tropical Surface Forecast(Most Current); @72HR Tropical Surface ForecastVT00,20S-30N,80W-145W @72HR Tropical Surface ForecastVT12,20S-30N,80W-145W @72HR Tropical Surface ForecastVT12,20S-30N,80W-145W	PYFE79.TIF PYFE80.TIF PYFE10.TIF PYFI81.TIF PYFI82.TIF PYFI10.TIF PYFK83.TIF PYFK84.TIF PYFK84.TIF
UPPER AIR CHARTS	
00Z 500 MB Analysis 20N-70N 115W-135E  12Z 500 MB Analysis 20N-70N, 115W-135E  500 MB Analysis (Most Current)  24HR 500 MB Forecast VT00Z 20N-70N, 115W-135E  24HR 500 MB Forecast VT12Z 20N-70N, 115W-135E  24HR 500 MB Forecast (Most Current)  48HR 500 MB Forecast VT00Z 20N-70N, 115W-135E  48HR 500 MB Forecast VT12Z 20N-70N, 115W-135E  48HR 500 MB Forecast (Most Current)  96HR 500 MB VT12Z 20N-70N, 115W-135E	PPBA50.TIF PBBA51.TIF PPBA10.TIF PPBE50.TIF PPBE51.TIF PPBE11.TIF PPBI50.TIF PPBI51.TIF PPBI51.TIF PPBI50.TIF
TROPICAL CYCLONE CHARTS	
72 HR Tropical Cyclone Danger Area VT 03Z 0N-40N, 80W-180W 72 HR Tropical Cyclone Danger Area VT 09Z 0N-40N, 80W-180W 72 HR Tropical Cyclone Danger Area VT 15Z 0N-40N, 80W-180W 72 HR Tropical Cyclone Danger Area VT 21Z 0N-40N, 80W-180W 72 HR Tropical Cyclone Danger Area (Most Current)  Note: Tropical Cyclone Danger Area chart replaced by High Wind chart Dec 01 - May 14.	PWFK88.TIF PWFK89.TIF PWFK90.TIF PWFK91.TIF PWFK11.TIF
SEA SURFACE TEMPERATURES	
Pacific SST Chart 40N-53N, E of 136W Pacific SST Chart 23N-42N, E of 136W	PTBA88.TIF PTBA89.TIF
SATELLITE IMAGERY  @00Z GOES IR Satellite Image, Tropical East Pacific  06Z GOES IR Satellite Image, Tropical East Pacific  @12Z GOES IR Satellite Image, Tropical East Pacific  18Z GOES IR Satellite Image, Tropical East Pacific  GOES IR Satellite Image, Tropical East Pacific  GOES IR Satellite Image, East Pacific  12Z GOES IR Satellite Image, East Pacific  21Z GOES IR Satellite Image, East Pacific  21Z GOES VISIBLE Satellite Image, East Pacific  GOES Satellite Image, East Pacific  GOES Satellite Image, East Pacific  10Z GOES IR Satellite Image, Pacific  12Z GOES IR Satellite Image, Pacific  12Z GOES IR Satellite Image, Pacific  12Z GOES IR Satellite Image, Pacific  18Z GOES IR Satellite Image, Pacific  GOES IR Satellite Image, Pacific  GOES IR Satellite Image, Pacific  GOES IR Satellite Image, Pacific	evpn02.jpg evpn07.jpg evpn04.jpg evpn08.jpg evpn10.jpg evpn13.jpg evpn13.jpg evpn14.jpg evpn00.jpg evpn98.jpg evpn98.jpg evpn01.jpg evpn06.jpg evpn12.jpg evpn18.jpg evpn199.jpg

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

Effective May 16, 2006 at 1900 UTC, the map area for several Pt. Reyes wind/wave and surface charts will change from a polar stereographic to a mercator projection as follows:

# 18N - 62N, EAST OF 157W after May 16, 2006

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

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

Author: Tim Rulon, NWS Marine And Coastal Weather Services Branch  $\mbox{W}/\mbox{OS21}$ 

Last Modified Apr 10, 2006

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

ftp://weather.noaa.gov/fax/rfaxpac.txt

#### NATIONAL WEATHER SERVICE RADIOFAX PRODUCTS

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

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

Assigned frequencies 4317.9, 8503.9 12789.9, 17146.4 kHz

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

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

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

.TIF files now also available as .gif files

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

## PAY ATTENTION TO CAPITALIZATION:

Example using FTPMAIL:

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

Body: open cd fax

get PWEE11.TIF
get PYEA11.gif

quit

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

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

Body: help

WIND/WAVE CHARTS	FILE NAME
00Z Sea State Analysis, 0N-31N, 35W-100W 12Z Sea State Analysis, 0N-31N, 35W-100W	PJEA88.TIF PJEA90.TIF
Sea State Analysis (Most Current)	PJEA11.TIF
24HR Wind/Wave Forecast VT00, ON-31N, 35W-100W	PWEE89.TIF
24HR Wind/Wave Forecast VT06, ON-31N, 35W-100W	PWEE90.TIF
24HR Wind/Wave Forecast VT12, ON-31N, 35W-100W	PWEE91.TIF
24HR Wind/Wave Forecast VT18, ON-31N, 35W-100W	PWEE92.TIF
24HR Wind/Wave Forecast (Most Current)	PWEE11.TIF
48HR Wind/Wave Forecast VT00, ON-31N, 35W-100W	PWEI88.TIF
48HR Wind/Wave Forecast VT12, ON-31N, 35W-100W	PWEI89.TIF
48HR Wind/Wave Forecast (Most Current)	PWEI11.TIF
48HR Wave Period/Swell Dir Forecast VT00, ON-31N, 35W-100W	PJEI88.TIF

48HR Wave Period/Swell Dir Forecast VT12, 0N-31N, 35W-100W 48HR Wave Period/Swell Direction Forecast (Most Current) 72HR Wind/Wave Forecast VT00, 0N-31N, 35W-100W 72HR Wind/Wave Forecast VT12, 0N-31N, 35W-100W 72HR Wind/Wave Forecast (Most Current) 72HR Wave Period/Swell Dir Forecast VT00, 0N-31N, 35W-100W	PJEI89.TIF PJEI11.TIF PJEK88.TIF PJEK89.TIF PJEK11.TIF PKEK88.TIF
SURFACE CHARTS	
@00Z U.S./Tropical Surface Analysis (W Half) 5S-50N,55W-125W @06Z U.S./Tropical Surface Analysis (W Half) 5S-50N,55W-125W @12Z U.S./Tropical Surface Analysis (W Half) 5S-50N,55W-125W @18Z U.S./Tropical Surface Analysis (W Half) 5S-50N,55W-125W @ U.S./Tropical Surface Analysis (W Half) 5S-50N,55W-125W @ U.S./Tropical Surface Analysis (E Half) 5S-50N, 0W-70W 06Z Tropical Surface Analysis (E Half) 5S-50N, 0W-70W 12Z Tropical Surface Analysis (E Half) 5S-50N, 0W-70W 12Z Tropical Surface Analysis (E Half) 5S-50N, 0W-70W 18Z Tropical Surface Analysis (E Half) 5S-50N, 0W-70W 18Z Tropical Surface Analysis (E Half) (Most Current) 24HR Tropical Surface Forecast(E Half)VT00,00N-31N, 35W-100W 18Z Tropical Surface Forecast(E Half)VT12,00N-31N, 35W-100W 1Z Tropical Surface Forecast(E Half)VT12,00N-31N, 35	PYEB86.TIF PYEB87.TIF PYEB85.TIF PYEB88.TIF PYEB11.TIF PYEA86.TIF PYEA85.TIF PYEA85.TIF PYEA81.TIF PYEE79.TIF PYEE80.TIF PYEE10.TIF PYEI81.TIF PYEI81.TIF PYEI81.TIF PYEI82.TIF PYEI82.TIF PYEI84.TIF PYEK83.TIF PYEK84.TIF PYEK84.TIF
@ For further forecasts covering the Tropical East Pacific,	
see Pt. Reyes and Honolulu charts  TROPICAL CYCLONE CHARTS	
Tropical Cyclone Danger Area* VT03, 05N-60N, 00W-100W Tropical Cyclone Danger Area* VT09, 05N-60N, 00W-100W Tropical Cyclone Danger Area* VT15, 05N-60N, 00W-100W Tropical Cyclone Danger Area* VT21, 05N-60N, 00W-100W Tropical Cyclone Danger Area* (Most Current)	PWEK89.TIF PWEK90.TIF PWEK91.TIF PWEK88.TIF PWEK11.TIF
HIGH SEAS FORECASTS	
04Z High Seas Forecast 7N-31N, 35W-98W, In English 10Z High Seas Forecast 7N-31N, 35W-98W, In English 16Z High Seas Forecast 7N-31N, 35W-98W, In English 22Z High Seas Forecast 7N-31N, 35W-98W, In English High Seas Forecast (Most Current)	PLEA86.TIF PLEA87.TIF PLEA89.TIF PLEA88.TIF PLEA10.TIF
SATELLITE IMAGERY	
0645Z GOES IR Satellite Image, 12S-44N, 28W-112W 1145Z GOES IR Satellite Image, 12S-44N, 28W-112W 1745Z GOES IR Satellite Image, 12S-44N, 28W-112W 2345Z GOES IR Satellite Image, 12S-44N, 28W-112W GOES IR Satellite Image (Most Current)	evst06.jpg evst12.jpg evst18.jpg evst00.jpg evst99.jpg
SCHEDULE INFORMATION	
Radiofax Schedule (New Orleans, LA) Radiofax Schedule (DOS Text Format) Request for Comments Product Notice Bulletin	PLEZ01.TIF hfgulf.txt PLEZ02.TIF PLEZ03.TIF

Test Chart PZZZ95.TIF
Internet File Names, (This file) rfaxmex.txt

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

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

Author: Tim Rulon, NWS Marine And Coastal Weather Services Branch, W/OS21 Last Modified Nov 01, 2005

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

# NATIONAL WEATHER SERVICE RADIOFAX PRODUCTS for the Northeast and Eastern Pacific

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

Assigned frequencies 2054, 4298, 8459, 12412.5 kHz

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

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

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

.TIF files now also available as .gif files

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

PAY ATTENTION TO CAPITALIZATION:

Example using FTPMAIL:

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

Body: open cd fax

get PJBI99.TIF
get PYBE10.gif

quit

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

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

Body: help

WIND/WAVE CHARTS	FILE NAME
00Z Sea State Analysis 20N-70N, 115W-135E	PJBA99.TIF
#24HR Wind/Wave Forecast VT00Z 40N-70N, 115W-170E	PJBE88.TIF
#24HR Wind/Wave Forecast VT12Z 40N-70N, 115W-170E	PJBE89.TIF
#24HR Wind Wave Forecast (Most Current)	PJBE10.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 96HR Wave Period/Swell Direction VT12Z 20N-70N, 115W-135E	
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)	PYBE01.TIF PYBE10.TIF
UPPER AIR CHARTS	
00Z 500 MB Analysis 20N-70N 115W-135E  12Z 500 MB Analysis 20N-70N, 115W-135E  500 MB Analysis (Most Current)  24HR 500 MB Forecast VT00Z 20N-70N, 115W-135E  24HR 500 MB Forecast VT12Z 20N-70N, 115W-135E  24HR 500 MB Forecast (Most Current)  48HR 500 MB Forecast VT00Z 20N-70N, 115W-135E  48HR 500 MB Forecast VT12Z 20N-70N, 115W-135E  48HR 500 MB Forecast (Most Current)  96HR 500 MB VT12Z 20N-70N, 115W-135E	PPBA50.TIF PBBA51.TIF PPBA10.TIF PPBE50.TIF PPBE51.TIF PPBE11.TIF PPBI50.TIF PPBI51.TIF PPBI51.TIF
SEA SURFACE TEMPERATURES	
Sea Surface Temperature Analysis 40N-60N,125W - 160E	PTCA88.TIF
SATELLITE IMAGERY	
00Z GOES IR Satellite Image, Pacific 06Z GOES IR Satellite Image, Pacific 12Z GOES IR Satellite Image, Pacific 18Z GOES IR Satellite Image, Pacific GOES IR Satellite Image, Pacific (MOST CURRENT)	evpn01.jpg evpn06.jpg evpn12.jpg evpn18.jpg evpn99.jpg
ICE CHARTS	
Sea Ice Analysis 5 Day Sea Ice Forecast Cook Inlet Sea Ice Analysis	PTCA89.TIF PTCO89.TIF PTCA87.TIF
OTHER PRODUCTS	
AK Coastal Forecast Tables	PLBZ00.TIF
SCHEDULE INFORMATION and MISCELLANEOUS	
Radiofax Schedule Kodiak, AK;	PLBZ05.TIF

Radiofax Schedule (DOS Text Version)
Test Pattern;
Radiofacsimile Symbols and Contractions
Internet File Names; (This file)

hfak.txt xxxxxx.xxx PLBZ06.TIF rfaxak.txt

xxxxxx.xxx = Currently unavailable

Change postponed until date TBD... Effective May 16, 2006 at 1900 UTC, the map area for several Kodiak wind/wave and surface charts will change from a polar stereographic to a mercator projection as follows:

# 42N - 72N, 122W - 155E after May 16, 2006

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

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

Author: Tim Rulon, NWS Marine And Coastal Weather Services Branch W/OS21 Last Modified Apr 28, 2006 Document URL: http://weather.noaa.gov/pub/fax/rfaxak.txt

ftp://weather.noaa.gov/fax/rfaxak.txt

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

NAVY Communications Station KVM-70 - Honolulu, Hawaii

Assigned frequencies 9982.5, 11090 and 16135 kHz

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

The latest version of NWS marine weather charts for broadcast by the NAVY are available from the National Weather Service Telecommunication Gateway on this server. The listed charts are in the G4(T4) format and enveloped in TIFF for viewing. These charts may be found in directory: ftp://weather.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@weather.noaa.gov Subject line: Put anything you like

Body: open cd fax

get PJFD89.TIF get PBFA11.gif

quit

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

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

Body: help

FILE WIND/WAVE CHARTS - CENTRAL PACIFIC until May 16 2230 UTC NAME

18Z Pacific Sea State Analysis 30S-30N 110W-130E PJFD89.TIF 24HR Pacific Sea State Forecast VT18Z 30S-30N 110W-130E PWFE84.TIF @48HR Pacific Sea State Forecast VT18Z 30S-30N 110W-130E PJFI89.TIF @72HR Pacific Sea State Forecast VT18Z 30S-30N 110W-130E PJFK89.TIF

WIND/WAVE CHARTS - CENTRAL PACIFIC after May 16 2230 UTC

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

All these charts will be transmitted via Honolulu radiofax beginning June 20 at 2242 UTC

# 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

All these charts will be transmitted via Honolulu radiofax beginning June 20 at 2242 UTC with the exception of the 00Z  $48\,\mathrm{HR}$  Wave Period/Swell Direction chart

# WIND/WAVE CHARTS - NORTH PACIFIC

@00Z Sea State Analysis 20N-70N, 115W-135E	PJBA99.TIF
#@00Z Wind/Wave Analysis 25N-60N, E OF 155W	PWBA88.TIF
#@06Z Wind/Wave Analysis 25N-60N, E OF 155W	PWBB88.TIF
#@12Z Wind/Wave Analysis 25N-60N, E OF 155W	PWBA89.TIF
<del>-</del>	
#@18Z Wind/Wave Analysis 25N-60N, E OF 155W	PWBD89.TIF
#@ Wind/Wave Analysis 25N-60N, E OF 155W (Most Current)	PWBA90.TIF
#@24HR Wind/Wave Forecast VT00Z 25N-60N, E of 155W	PWBE98.TIF
#@24HR Wind/Wave Forecast VT12Z 25N-60N, E of 155W	PWBE99.TIF
#@24HR Wind/Wave Forecast (Most Current)	PWBE10.TIF
@48HR Wind/Wave Forecast VT00Z 20N-70N, 115W-135E	PJBI98.TIF
@48HR Wind/Wave Forecast VT12Z 20N-70N, 115W-135E	PJBI99.TIF
@48HR Wind Wave Forecast (Most Current)	PJBI10.TIF
@48HR Wave Period/Swell Direction VT00Z 20N-70N, 115W-135E	PJBI88.TIF
@48HR Wave Period/Swell Direction VT12Z 20N-70N, 115W-135E	PJBI89.TIF
@48HR Wave Period/Swell Direction (Most Current)	PJBI20.TIF
@96HR Wind/Wave Forecast VT12Z 20N-70N, 115W-135E	PJBM98.TIF
@96HR Wave Period/Swell Direction VT12Z 20N-70N, 115W-135E	PJBM88.TIF

All these charts will be transmitted via Honolulu radiofax beginning June 20 at 2242 UTC with the exception of the Wind/Wave Analysis charts and the 12Z 48HR Wave Period/Swell Direction chart.

# SURFACE CHARTS - CENTRAL PACIFIC until May 16 2230 UTC

```
@00Z North Pacific Preliminary Analysis 80N-20N, 110W-110E
                                                                xxxxxx.TIF
                                                               xxxxxx.TIF
@06Z North Pacific Preliminary Analysis 80N-20N, 110W-110E
@12Z North Pacific Preliminary Analysis 80N-20N, 110W-110E
                                                                xxxxxx.TIF
@18Z North Pacific Preliminary Analysis 80N-20N, 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
                                                               PPBA11.TIF
    Pacific Surface Analysis (Most Current)
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 30S-50N, 100W-120E
                                                               xxxxxx.TIF
                                                            XXXXXX.TIF
XXXXXX.TIF
XXXXXX.TIF
06Z Tropical Surface Analysis 30S-50N, 100W-120E
12Z Tropical Surface Analysis 30S-50N, 100W-120E
18Z Tropical Surface Analysis 30S-50N, 100W-120E
    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
48HR Surface Forecast VT06Z 60N-55S, 55W-70E
                                                                xxxxxx.TIF
48HR Surface Forecast VT18Z 60N-55S, 55W-70E
                                                                xxxxxx.TIF
48HR Surface Forecast (Most Current)
                                                                QDEQ99.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
SURFACE CHARTS - CENTRAL PACIFIC after May 16 2230 UTC
@00Z North Pacific Preliminary Analysis 80N-20N, 110W-110E
                                                                xxxxxx.TIF
@06Z North Pacific Preliminary Analysis 80N-20N, 110W-110E
                                                                xxxxxx.TIF
@12Z North Pacific Preliminary Analysis 80N-20N, 110W-110E
                                                                xxxxxx.TIF
@18Z North Pacific Preliminary Analysis 80N-20N, 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
```

PWFA90.TIF

00Z Pacific Streamline Analysis 30S-30N, 110W-130E

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 30S-50N, 100W-120E	xxxxxx.TIF
\$06Z Tropical Surface Analysis 30S-50N, 100W-120E	xxxxxx.TIF
\$12Z Tropical Surface Analysis 30S-50N, 100W-120E	xxxxxx.TIF
\$18Z Tropical Surface Analysis 30S-50N, 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
\$48HR Surface Forecast VT00/12Z 60N-55S 55W-70E(Most Current)	~ ~
@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

The 24, 48 and 72 HR Surface Forecast charts will be transmitted via Honolulu radiofax beginning June 20 at 2242 UTC

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

The East Pacific Surface Analysis charts will be transmitted via Honolulu radiofax beginning June 20 at 2242 UTC

# 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
    @Surface Analysis, Part 1 (Most Current)
                                                                 PYBA90.TIF
    @Surface Analysis, Part 2 (Most Current)
                                                                 PYBA91.TIF
#@24HR Surface Forecast VT10Z Forecast 25N-60W, E of 155W PPBE00.TIF #@24HR Surface Forecast VT12Z Forecast 25N-60W, E of 155W PPBE01.TIF
#@24HR Surface Forecast (Most Current)
                                                                PPBE10.TIF
@48HR Surface Forecast VT00Z 20N-70W, 115W-135E
                                                                PWBI98.TIF
@48HR Surface Forecast VT12Z 20N-70W, 115W-135E
                                                                PWBI99.TIF
@48HR Surface Forecast (Most Current)
                                                                PWBI10.TIF
@96HR Surface Forecast VT12Z 20N-70W, 115W-135E
                                                                 PWBM99.TIF
```

# 18N - 62N, EAST OF 157W after May 16 at 2230 UTC

All these charts will be transmitted via Honolulu radiofax beginning June 20 at 2242 UTC with the exception of the 24HR Surface Forecast charts

## TROPICAL CYCLONE CHARTS - SE PACIFIC

```
72 HR Tropical Cyclone Danger Area VT 03Z 0N-40N, 80W-170W PWFK88.TIF
72 HR Tropical Cyclone Danger Area VT 09Z 0N-40N, 80W-170W PWFK89.TIF
72 HR Tropical Cyclone Danger Area VT 15Z 0N-40N, 80W-170W PWFK90.TIF
72 HR Tropical Cyclone Danger Area VT 21Z 0N-40N, 80W-170W PWFK91.TIF
72 HR Tropical Cyclone Danger Area (Most Current) PWFK11.TIF
```

Note: Charts replaced by High Wind/Wave Warning chart Dec 01 - May 14.

Beginning June 20 at 2242 UTC these charts will no longer be broadcast via Honolulu and will be replaced by charts immediately below

# 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, 80W-170E PWFK15.TIF @72 HR Tropical Cyclone Danger Area (Most Current) PWFK12.TIF
```

These charts will be transmitted via Honolulu radiofax beginning June 20 at 2242 UTC

# SEA SURFACE TEMPERATURE CHARTS

Pacific SST Chart 55N-EQ, 110W-160E

PTFA88.TIF

#### SATELLITE IMAGERY (IR)

00Z Eastern Pacific Satellite Image 05S-55N, 110W-155E	evpz00.jpg
06Z Eastern Pacific Satellite Image 05S-55N, 110W-155E	evpz06.jpg
12Z Eastern Pacific Satellite Image 05S-55N, 110W-155E	evpz12.jpg
18Z Eastern Pacific Satellite Image 05S-55N, 110W-155E	evpz18.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	evps12.jpg
18Z Southwest Pacific Satellite Image 40S-05N, 130W-165E	evps18.jpg
Southwest Pacific Satellite Image (Most Current)	evps11.jpg
@00Z 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
@12Z Tropical East Pacific Satellite Image 20S-40N,E of 145W	evpn04.jpg
@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
@12Z 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

Beginning June 20 at 2242 UTC the 06Z and 18Z Tropical East Pacific and Pacific Satellite Images will be transmitted via Honolulu radiofax

# SCHEDULE INFORMATION

BZ07.TIF
BZ09.TIF
hi.txt
BZ08.TIF
axhi.txt
ŀ

@ Not transmitted via Honolulu radiofax but listed here for convenience

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

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

Author: Timothy Rulon

Marine and Coastal Weather Services Branch W/OS21

National Weather Service Last Modified May 01, 2006

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

# NATIONAL WEATHER SERVICE MARINE TEXT PRODUCTS HIGHSEAS, FORECAST DISCUSSION, OFFSHORE, NAVTEX, and OPEN LAKE PRODUCTS

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

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

Body: open

cd data cd forecasts cd marine cd high\_seas

get north\_pacific.txt
get north\_atlantic.txt

quit

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

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

Body: help

HIGH SEAS FORECASTS

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

PRODUCT DESCRIPTION

FILE NAME

Northwest Atlantic Highseas (GMDSS Area IV) north\_atlantic.txt
Northeast Pacific Highseas (GMDSS Area XII) north\_pacific.txt
Peru Highseas (GMDSS Area XVI) east\_pacific\_3.txt
25S-0N, 160E-120W South Central Pacific south\_hawaii.txt
30-60N, east of 160 E (p/o NE Pacific) east\_pacific\_1.txt
0-30N, E of 140W (p/o NE Pacific) east\_pacific\_2.txt
0-30N, 160E-140W (p/o NE Pacific) north\_hawaii.txt

FORECAST DISCUSSION

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

Example:

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

Body:

open cd data cd raw cd ag

get agnt40.kwnm.mim.atn.txt

quit

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

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

## 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://iwin.nws.noaa.gov/data/text/FZNT21 (FZNT22, etc) or

ftp://iwin2.nws.noaa.gov/data/text/FZNT21 (FZNT22, etc)

Example:

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

cd data
cd text
cd FZNT21
get KWBC.TXT

quit

# PRODUCT DESCRIPTION

# FILE NAME

New England /FZNT21/KWBC.TXT Mid-Atlantic /FZNT22/KWBC.TXT SW North Atlantic, Caribbean /FZNT23/KNHC.TXT Gulf of Mexico /FZNT24/KNHC.TXT Washington, Oregon /FZPN25/KWBC.TXT California /FZPN26/KWBC.TXT Eastern Gulf of Alaska /FZAK67/PAJK.TXT Western Gulf of Alaska /FZAK61/PAFC.TXT Bering Sea /FZAK62/PAFC.TXT Hawaii /FZHW60/PHFO.TXT

# NAVTEX FORECASTS

These files may be found in directory:

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

Example:

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

Body:

open
cd data
cd forecasts
cd marine
cd offshore

get fznt23.kwnm.off.n01.txt

quit

#### PRODUCT DESCRIPTION

#### FILE NAME

	Boston, MA Chesapeake, VA	<pre>fznt23.kwnm.off.n01.txt fznt24.kwnm.off.n02.txt</pre>
NAVTEX	Savannah, GA	fznt25.kwnm.off.n03.txt
NAVTEX	Miami, FL	fznt25.knhc.off.n04.txt
NAVTEX	San Juan, PR	fznt26.knhc.off.n05.txt
NAVTEX	New Orleans, LA	fznt27.knhc.off.n06.txt
NAVTEX	Astoria, OR	fzpn24.kwnm.off.n09.txt
NAVTEX	Pt. Reyes, CA	fzpn23.kwnm.off.n08.txt
NAVTEX	Cambria, CA	fzpn22.kwnm.off.n07.txt
NAVTEX	Honolulu, HI	fzhw61.phfo.off.n10.txt
NAVTEX	Kodiak,(SE) AK	<pre>fzak61.pajk.off.n11.txt</pre>
NAVTEX	Kodiak,(N Gulf) AK	<pre>fzak63.pafc.off.n12.txt</pre>
NAVTEX	Kodiak,(W) AK	<pre>fzak64.pafc.off.n13.txt</pre>
NAVTEX	Kodiak,(NW and Artic) AK	<pre>fzak69.pafg.off.n14.txt</pre>

## OPEN LAKE FORECASTS

These files may be found in directory: ftp://weather.noaa.gov/data/raw/fz/

Example:

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

Body:

open
cd data
cd raw
cd fz

get fzus61.kbuf.glf.sl.txt

quit

# PRODUCT DESCRIPTION

# FILE NAME

St. Lawrence	fzus61.kbuf.qlf.sl.txt
St. Lawrence	IZUS0I.KDUI.GII.SI.UXU
Lake Ontario	fzus61.kbuf.glf.lo.txt
Lake Erie	fzus61.kcle.glf.le.txt
Lake St. Clair	fzus63.kdtx.glf.sc.txt
Lake Huron	fzus63.kdtx.glf.lh.txt
Lake Michigan	fzus63.klot.glf.lm.txt
Lake Superior	fzus63.kmqt.glf.ls.txt

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

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

National Weather Service Last Modified Oct 18, 2005

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

ftp://weather.noaa.gov/fax/marinel.txt

# NATIONAL WEATHER SERVICE MARINE TEXT PRODUCTS HURRICANE PRODUCTS

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

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

Body: open cd data

cd hurricane\_products

cd atlantic
cd weather
get outlook.txt

cd /data

cd hurricane\_products

cd atlantic
cd storm\_2

get technical\_advisory.txt

quit

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

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

Body: help

# ATLANTIC HURRICANE PRODUCTS

These files may be found in directory:

ftp://weather.noaa.gov/data/hurricane\_products/atlantic

# PRODUCT DESCRIPTION

# FILE NAME

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

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

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

## EASTERN PACIFIC HURRICANE PRODUCTS

These files may be found in directory: ftp://weather.noaa.gov/data/hurricane\_products/eastern\_pacific

#### PRODUCT DESCRIPTION

# FILE NAME

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

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

# CENTRAL PACIFIC HURRICANE PRODUCTS

These files may be found in directory: ftp://weather.noaa.gov/data/hurricane\_products/central\_pacific

# PRODUCT DESCRIPTION

FILE NAME

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

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

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://weather.noaa.gov/pub/data/raw/wt

# Example:

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

cd data
cd raw
cd wt

get wtpq31.pgum.tcp.pq1.txt

quit

# PRODUCT DESCRIPTION

# FILE NAME

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

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

#### WESTERN PACIFIC HURRICANE PRODUCTS (NAVY)

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

# Example:

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

Body:

open
cd data
cd raw
cd wt

get wtpn21.pgtw..txt

quit

#### PRODUCT DESCRIPTION

#### FILE NAME

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

Author: Timothy Rulon

Marine and Coastal Services Branch, OS21

National Weather Service

Last Modified Friday June 14, 2005

Document URL: http://weather.noaa.gov/pub/fax/marine2.txt

# NATIONAL WEATHER SERVICE MARINE TEXT PRODUCTS COASTAL and NEARSHORE MARINE FORECASTS

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

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

Body:

open cd data cd raw cd fz

get fzus56.kmtr.cwf.mtr.txt

quit

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

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

Body: help

COASTAL and NEARSHORE MARINE FORECASTS

These files may be found in directory:

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

# PRODUCT DESCRIPTION

#### FILE NAME

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

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 fzmy50.pgum.cwf.my.txt Marianas (Guam) East Micronesia fzpq51.pgum.cwf.pq1.txt West Micronesia fzpq52.pgum.cwf.pq2.txt fzzs50.nstu.cwf.ppg.txt Samoa Buffalo,NY fzus51.kbuf.nsh.buf.txt Cleveland, OH fzus51.kcle.nsh.cle.txt Detroit/Pontiac,MI fzus53.kdtx.nsh.dtx.txt Gaylord, MI fzus53.kapx.nsh.apx.txt Grand Rapids, MI fzus53.kgrr.nsh.grr.txt Northern Indiana, IN fzus53.kiwx.nsh.ixw.txt fzus53.klot.nsh.lot.txt Chicago, IL fzus53.kmkx.nsh.mkx.txt Milwaukee/Sullivan,WI fzus53.kgrb.nsh.grb.txt Green Bay, WI Marquette, MI fzus53.kmqt.nsh.mqt.txt Duluth, MN fzus53.kdlh.nsh.dlh.txt AK, SE Inner Coastal Waters fzak51.pajk.cwf.ajk.txt AK, SE Outside Coastal Waters fzak52.pajk.cwf.aeg.txt AK, Yakutat Bay fzak57.paya.cwf.yak.txt AK, North Gulf Coast and Kodiak fzak51.pafc.cwf.aer.txt AK, Valdez Arm and Narrows fzak58.pavw.cwf.vws.txt AK, Chiniak and Marmot Bays fzak58.padq.cwf.adq.txt Southwest AK and the Aleutians fzak52.pafc.cwf.alu.txt Western AK and the Arctic Coast fzak59.pafg.cwf.afg.txt

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

National Weather Service Last Modified dec 21, 2005

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

ftp://weather.noaa.gov/fax/marine3.txt

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

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

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

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

Body: open cd fax

get robots.txt

quit

#### FTPMAIL

National Weather Service marine text forecasts, radiofax charts and buoy

observations are available via e-mail via an FTPMAIL server. Further, FTPMAIL may be used to acquire any file on a \*.noaa.gov FTP server. The FTPMAIL server is intended to allow Internet access for mariners and other users who do not have direct access to the World Wide Web but who are equipped with an e-mail system. Turnaround is generally 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 http://weather.noaa.gov/pub/fax/ftpmail.txt

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

Body: help

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

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

URLs = http://polar.ncep.noaa.gov/waves/latest\_run/xxxx.yyyyzzzz

where xxxx =

"nww3\_at" Atlantic

"nww3\_na" North Atlantic

"wna" Western North Atlantic
"wna ecq" WNA US coastal zoom

```
"nah"
          North Atlantic Hurricane
"nah_ecg" NAH US coastal zoom
"nww3_in" Indian Ocean
"nww3_pa" Pacific
"nww3_np" North Pacific
         Eastern North Pacific
"enp"
"enp_haw" ENP Hawaii zoom
"enp_wc" ENP west coast zoom
"nph" North Pacific Hurricane
"nph_haw" NPH Hawaii zoom
"nph_wc" NPH west coast zoom
"akw"
      Alaskan Waters
where "yyyy" = "h006" or "h000" for -6 or zero hour hindcasts
where "yyyy" = "f006" to "f180" (multiples of 6 hours) for forecasts
where "zzzz" =
"h.gif" Wave Height Forecast
"h.2.gif" Wave Period and Direction Forecast
"h.3.gif" Wind Speed and Direction Forecast
e.g. 24hr Wind Speed and Direction Forecast for North Atlantic =
http://polar.ncep.noaa.gov/waves/latest_run/nww3_na.f024h.3.gif
(See SAILDOCS or OTHERS described below to retrieve via e-mail,
file size \sim = 30k Bytes )
And similarly, to retrive sea surface temperature and surface
current forecasts from NOAA's for Real-Time Ocean Forecast System (Atlantic):
URLs = http://polar.ncep.noaa.gov/ofs/aofs_images/aofs_zzz_yyyy_xxxx.png
where xxxx =
"natl"
           North Atlantic
          Western North Atlantic
"wnatl"
"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 quaranteed. 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
```

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

information, or see: http://www.nhc.noaa.gov/signup.shtml

ody: 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@weather.noaa.gov Subject line: Put anything you like

Body: open cd fax

cu rax

get uiuclist.txt

quit

Hurricane Watch Net YahooGroup Listserver

The Amateur Radio "HAM" Hurricane Watch Net manages two YahooGroup Lists, HWN, and hwn\_epac, which are of special interest to mariners who do not have direct access to the World Wide Web but who are equipped with an e-mail system. These Lists provide an automated means to receive NWS hurricane forecast products via e-mail. However, performance may vary and receipt cannot be guaranteed. Due to a system limitation, duplicate e-mails are likely. To get started in using the HWN/hwn\_epac YahooGroup Listserver, follow these simple directions to obtain further information, or see: http://www.hwn.org/, http://groups.yahoo.com/group/HWN and http://groups.yahoo.com/group/hwn\_epac

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

Body:

open cd fax

get hwnlist.txt

quit

# SAILDOCS

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

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

#### NAVIMAIL

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

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

Body: open cd fax

get navimail.txt

quit

## U.S. NOTICES TO MARINERS BY E-MAIL

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

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

# Privacy Act Advisory

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

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

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

Subject line: Leave blank Body: Leave blank

U.S. COAST GUARD LOCAL NOTICES TO MARINERS (LNM) LISTSERVER LNM's and other maritime related information are available via a one-way

listserver at: http://www.navcen.uscg.gov/lnm/listserver.htm

NANUS & GPS STATUS MSGS BY EMAIL

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

#### OTHERS

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

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

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

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

Author: Timothy Rulon timothy.rulon@noaa.gov

Marine and Coastal Weather Services Branch W/OS21

National Weather Service Last Modified Oct 12, 2005

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

# **AMVER/SEAS**

# In Pursuit of Safety At Sea

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

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

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

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

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

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

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

# For Information on SEAS contact:

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

# For Information on AMVER contact:

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

e-mail: bmstrong@batteryny.uscg.mil

or visit the SEAS website at:

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

# **MAROB**

# An Experimental Voluntary Marine Observation Program

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

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

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

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

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

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

For information on the MAROB Program see:

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

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

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

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

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

# **USEFUL MARINE WEATHER PUBLICATIONS**

Marine Service Charts (MSC) - \$1.251

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

Location	<u>Number</u>
Eastport, ME to Montauk Point, NY	MSC-1
Montauk Point, NY to Manasquan, NJ	MSC-2
Manasquan, NJ to Cape Hatteras, NC	MSC-3
Cape Hatteras, NC to Savannah, GA	MSC-4
Savannah, GA to Apalachicola, FL	MSC-5
Apalachicola, FL to Morgan City, LA	MSC-6
Morgan City, LA to Brownsville, TX	MSC-7
Mexican Border to Point Conception, CA	MSC-8
Point Conception, CA to Point St George,CA	MSC-9
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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.