### WORLDWIDE MARINE RADIOFACSIMILE BROADCAST SCHEDULES

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

### NATIONAL WEATHER SERVICE

August 16, 2004

#### 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 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.

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

This document also includes information on how to obtain National Weather Service text and graphic marine forecasts via the World Wide Web and e-mail (FTPMAIL). Mariners are highly encouraged to explore these options. In this issue, we have added instructions on how buoy and C-MAN observations may be downloaded.

The accuracy of this publication depends on <u>YOUR</u> input.

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

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

# AFRICA

#### NAIROBI, KENYA

<b>CALL SIGN</b> 5YE 5YE	IS FREQUENCIES TIMES 9044.9 kHz CONTINUOUS 17447.5 kHz CONTINUOUS	EMISSION F3C F3C	<b>PC</b> 6 6	WER KW KW
TIME	CONTENTS OF TRANSMISSION	RPM/IOC	VALID TIME	MAP AREA
0100/ 0140/ 0630/ 0800/ 0830/ 1017/ 1017/ 1057/1638 1112/1653 1127/ 1142/1802 1210/1820 1229/1839 1248/1858 1307/1917 1326/1936 1345/ 1430/ 1455/	SIGWX BELOW FL240 (1200) - FORM NO. 585A TABULAR FORECAST- FORM NO. 2053 SIGWX FL100-250 DMC-CHART DMC-CHART SIGWX BELOW FL240 - FORM NO. 585A TEST CHART SIG WX FL100-250 SIG WX FL250 (SEGMENT) SURFACE ANALYSIS 850 HPA UPPER AIR ANALYSIS 24-HOUR CHANGE OF PRESSURE INDIAN OCEAN ANALYSIS SIG WX FL100-250 H+24 SURFACE PROGNOSIS FL100 UPPER AIR ANALYSIS FL180 UPPER AIR ANALYSIS FL300 UPPER AIR ANALYSIS	120/576 120/576	0000 1200 1800 0000 0600 1200 0000 06/12 06/12 1200 1200 0600 06/12 00/1	

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

(INFORMATION DATED June 18, 2003) Update 03/2002 - Reported as having a RPM/IOC of 180/576 vs. 120/576

#### CAPE NAVAL, SOUTH AFRICA

CALL	SIGNS	FREQUE	NCIES	TIMES			EMISSION	I PC	WER
ZSJ ZSJ ZSJ ZSJ		4014 7508 13538 18238	kHz kHz kHz kHz	16Z-06Z (wł CONTINUO CONTINUO 06Z-16Z (wł	nen availabl US US nen availabl	e) e)	F3C F3C F3C F3C	10 10 10 10	KW KW KW KW
TIME	CONTE	NTS OF TR	RANSMISSIO	N			RPM/IOC		
0430 0500 0630 0730 0800 0915 1030 1100 1530 1700 2230	SCHEDULE SURFACE AN UPPER AIR F SURFACE PF ANTARTIC IC RTTY WEATH SURFACE AN SURFACE AN RTTY WEATH SURFACE AN	IALYSIS(SH PROG COG E LIMITS (( HER BULLE IALYSIS(SH IALYSIS(SH HER BULLE IALYSIS(SH	HPPING) DCT-MAR) TINS FOR C HPPING) HPPING) TINS FOR C HPPING)	OASTAL WATEF OASTAL WATEF	RS AND HIGH RS AND HIGH	ISEAS	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 Hz shift, 75 1800	ASXX FUXX FSXX AIAA Baud) ASXX FSXX ASXX baud) ASXX
MAP A ASXX FUXX FSXX	REAS: 1:20,000 Lam 1:20,000 Mero 1:20,000 Mero	bert cator cator	00S20W 05S15W 05S15W	00S70E 05S60E 05S60E	60S50W 60S15W 60S15W	60S90 60S60 60S60	E E E		

FSXX 1:20,000 Mercator 05S15W 05S60E 60S15W AIAA 30E to 30W Antarctic coast to edge of ice pack except NIC West

(INFORMATION DATED June 18, 2003)

http://www.weathersa.co.za/forecasts/shippingschedule.html

#### DAKAR, SENEGAL

<b>CALL SIGN</b> 6VU 23 6VU 73 6VU 79	IS	FREQUE 4790.5 13667.5 19750	NCIES kHz kHz kHz	TIME: CONT CONT CONT	<b>S</b> FINUOL FINUOL FINUOL	JS JS JS		EMISSION F3C F3C F3C F3C		<b>PO</b> 5 10 10	<b>WER</b> KW KW KW
ТІМЕ	CONTE	NTS OF TR	RANSMISSIO	N				RPM/IOC		D	
/1240 0100/1300 0340/ 0400/1600 0445/1645 0500/1700 0515/1715 0530/1730 0545/1745 0615/1815 0630/1830 0700/1900 0740/1940 0820/2020 0840/2040 0900/2100 0920/2120 0940/2140 1000/2200 1040/2240 1145/2345	TEST C 18HR S SURFA 850MB 300MB 250MB 300MB 250MB 18HR S 200MB 18HR S 200MB 18HR L 24HR L 24H	CHART CEANALYSIS ANALYSIS ANALYSIS ANALYSIS ANALYSIS ANALYSIS CANALYSIS CHART CEANALYSIS CHART C	T WEATHER SIS T WEATHER T WEATHER PROG (FL 18 PROG (FL 30 PROG (FL 30 PROG (FL 30 SIS T WEATHER CENTERED (	2 PROG 2 PROG 3 PROG 30) 30) 40) 90) 2 PROG 1 900 H7	ABOVE	THE ASSIC	SNED FR	120/576 60/576 120/576	12/00 00/12 00/12 00/12 00/12 18/06 00/12 18/06 00/12 00/12 00/12 00/12 00/12 00/12		B A A A A A C A A/B B B B B B B B C
				005112					50		
MAP AREAS:	A - B - C -	1:15,000,00	35N 00 55N 00 40N	035W, 030W, 050W,	35N 55N 40N	022.5E, 040.0E, 033.0E,	EQ 05S 20S	035W, 030W, 050W,	EQ 05S 20S	022. 040. 033.	5E 0E 0E

(INFORMATION DATED 09/1996) Update 03/2000 - Operations of this station may have terminated in 1998

# ASIA

#### **BEIJING (PEKING), CHINA**

CALL SIGNS BAF6 BAF36 BAF4 BAF8 BAF9 BAF33	FREQUENCI 5526.9 kH: 8121.9 kH: 10116.9 kH: 14366.9 kH: 16025.9 kH: 18236.9 kH:	ES Z Z Z Z Z Z	TIMES			EMISSION F3C F3C F3C F3C F3C F3C F3C	0 6-1 6-1 10 15 ??	DWER 3 KW 3 KW KW KW KW 3 KW
TIME CON	TENTS OF TRANS	SMISSIC	N			RPM/IOC	VALID TIME	MAP AREA
0008 24HR/36HR 0132 36HR/48HR 0154 TYPHOON 0216 36HR MININ 48HR MAXI 0238 24HR/48HR 60HR MININ	48HR PRECIPITA SURFACE PROG WARNING (IN ENG MUM TEMP PROG MUM TEMP PROG PRECIPITATION MUM TEMP PROG	GLISH & GLISH & (1 OCT) G(1 MA) PROG ( (1 OCT)	ROG (1 JUN CHINESE)( -30 APR) (-30 SEP) 1 MAY-30 SE -30 APR) -30 APR	-30 SEP) I) EP)		120/576 120/576 120/576 120/576 120/576 120/576 120/576 120/576	1200 1200 0000	E A1 E E E
0406 500MB PLC 0428 48HR SURF 0450 SURFACE	ANAL ANAL ANAL ANAL	SIS (1 IN	1AT-30 SEP)			120/576 120/576 120/576 120/576	0000 1800 0000	E F H
0724 SATELLITE 0746 TYPHOON 0830 SURFACE I 0852 24HR PREC 1126 TYPHOON 1148 TEST CHAF 1158 PROGRAM	VICTORE ANAL WARNING (IN ENG PRESSURE ANAL CIPITATION PROG TRACK PROG (2) AMENDMENTS (4)	GLISH 8 GLISH 8 YSIS	CHINESE)(	1)		120/576 120/576 120/576 120/576 120/576 120/576 120/576	0600 0000 0000	C J D
1340         TYPHOON           1904         500MB PLC           1926         SURFACE I           1948         TYPHOON           2134         24 HR SUR           2218         36HR/48HR           2240         TYPHOON	WARNING (IN END DTTED DATA PRESSURE ANAL WARNING (IN END FACE ANALYSIS 500 MB VORICIT TRACK PROG (2)	ĞLISH A YSIS GLISH A Y ANAL	ND CHINES ND CHINES YSIS	E)(1) E)(1)		120/576 120/576 120/576 120/576 120/576 120/576 120/576 120/576	1200 1200 1200 1800 1200 1200 1200	E G A1 I D
NOTES: (1) (4)	IN CASE OF TY ON MONDAYS	(PHOON	١					
MAP AREAS: A1 - C - D - E - F - G - H - I - J -	1:30,000,000 1:23,000,000 1:10,000,000 1:20,000,000 1:20,000,000 1:10,000,000 1:10,000,000 1:10,000,000 1:03,000,000	NORT 70S 50N 10N 05S 06N 04S 15N 43N	HERN HEMI 040E, 700 105E, 500 085E, 101 033E, 043 085E, 03 070E, 023 075E, 151 108E, 431	SPHERE S 130W, N 160E, N 135E, S 130E, N 142E, S 145E, N 125E, N 120E,	40N 040E, 45N 105E, 45N 066E, 43N 041E, 47N 063E, 42N 023E, 40N 040E, 33N 108E	40N 45N 20N 41N 48N 45N 33N	130W 160E 150E 160E 168E 174E 150E 120E	

(INFORMATION DATED 11/1997)

#### **BEIJING (PEKING), CHINA**

CALL SIGN 3SD 3SD 3SD	NS FREQUENCIES TIMES 8461.9 kHz 12831.9 kHz 16903.9 kHz	EMISSION F3C F3C F3C	<b>PO\</b> 10 10 30	<b>NER</b> KW KW KW
TIME	CONTENTS OF TRANSMISSION	RPM/IOC V/ TI	ALID ME	MAP AREA
0755/1130	Wave Analysis, 24h forecast	120/576		

0755/1130	Wave Analysis, 24h forecast	1
	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	ו)

(Date of Information Unknown)

#### SHANGHAI, CHINA

CALL SIGN BDF	FREQUENCIES         TIMES           3241         kHz           5100         kHz           7420         kHz           11420         kHz           18940         kHz	<b>EMISSION</b> F3C F3C F3C F3C F3C F3C	POWER
ТІМЕ	CONTENTS OF TRANSMISSION	RPM/IOC	VALID MAP TIME AREA
0010 0130 1810 2030	SURFACE PROG SURFACE ANALYSIS SURFACE PROG SURFACE ANALYSIS	120/576 120/576 120/576 120/576	B A B A

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

(INFORMATION DATED 12/1992) Update 02/2000 - This schedule reported as being out of date

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

CALL SIGN ATP57 ATP65	IS FREQUENCIES TIMES 7404.9 kHz 1430-0230 14842.0 kHz 0230-1430	EMISSION B9W B9W	F	<b>POWER</b> 10 KW 10 KW
ТІМЕ	CONTENTS OF TRANSMISSION	RPM/IOC	VALID TIME	MAP AREA
0011/1211 0030/1230 0050/1248 0110/1306 0130/1324 0150/ /1342 0210/1400 0238/ /1430 0300/ 0430/ 0400/ 0420/ 0420/ 0420/ 0420/ 0422/1810 0634/1820 /1840 0654/1910 0714/1928 0734/1946 0753/2004 0856/2100 0916/2118 0936/ /2136 1005/2205	SURFACE ANALYSIS 24HR 250MB WIND & TEMP PROG 24HR 500MB WIND & TEMP PROG 24HR 850MB WIND & TEMP PROG 12HR SIGNIFICANT WEATHER PROG (4 PANEL) 96HR 500MB PROG (ECMWF) 24HR 300MB WIND & TEMP PROG 24HR 400MB WIND & TEMP PROG 24HR 200MB WIND & TEMP PROG 24HR 700MB WIND & TEMP PROG 24HR 500MB WIND PROG (ECMWF) 72HR 500MB PROG (ECMWF) 7 DAY MEAN SST ANALYSIS INSAT IR SATELLITE IMAGE TEST CHART SURFACE ANALYSIS 500MB RELATIVE VORTICITY ANAL 850MB ANALYSIS 300MB ANALYSIS 300MB ANALYSIS 300MB ANALYSIS 24HR SURFACE PROG 12HR SIGNIFICANT WEATHER PROG (4 PANEL) 200MB ANALYSIS 850-500MB THICKNESS ANALYSIS 24HR 500MB PROG 500MB RELATIVE VORTICITY ANALYSIS 31GNIFICANT WEATHER RECEIVED FROM TOKYO	$\begin{array}{c} 120/576\\ 120/5$	18/06 12/00 12/00 12/00 12/00 12/00 12/00 12/00 12/00 1200 0000 1200 12	ΑΑΗΗΒΑΗΗΗΗΗΗΗΗΑΑΓΕ ΑΨΑΑΑΑΑΒΑΑΑΟ

#### NEW DELHI, INDIA

TIME	CONTENTS OF T	RANSMISSION	RPM/IOC	VALID TIME	MAP AREA
/2223 1025/2241 1055/2259 1115/2317 1135/2335 1153/2353	24HR 500MB PRC 24HR 300MB PRC 24HR 250MB PRC 24HR 200MB PRC 24HR TROPOPAL 24HR 100MB PRC	DG DG DG DG ISE/MAX WIND PROG DG	120/576 120/576 120/576 120/576 120/576 120/576	1200 00/12 00/12 00/12 00/12 00/12	A A A A A A
MAP AREAS	: A - 1:20,000,000 B - 1:20,000,000 D - 1:20,000,000 E - 1:20,000,000 F - 1:20,000,000 H - 1:20,000,000	45N - 25S, 30E - 125E EQ - 40N, 30E - 125E 5N - 42.5N, 40E - 120E EQ - 60N, 25E - 120E EQ - 25N, 55E - 100E 15S - 67.5N, 000E - 180E			

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

#### TOKYO, JAPAN

CALL SIGN JMH JMH2 JMH4 JMH5	IS FREQ 3622.5 7305 13597 18220	JENCIES 5 kHz kHz kHz kHz kHz	TIMES CONTINUOUS CONTINUOUS CONTINUOUS CONTINUOUS	EMISSIO F3C F3C F3C F3C F3C	N P	OWER 5 KW 5 KW 5 KW 5 KW
TIME	CONTENTS OF	TRANSMIS	SION	RPM/IOC	VALID TIME	MAP AREA
0000/1200 0020/ 0040/ /1220 /1239 0102/1202	RETRANSMISSI 96HR SURFACE 120HR SURFAC RETRANSMISSI RETRANSMISSI TEST CHART	ON OF 220 PRESSUR E PRESSUI ON OF 021 ON OF 030	0/0840 E/PRECIP PROGS RE/PRECIP PROGS 0 0	120/576 120/576 120/576 120/576 120/576	1200 1200	C C
0110/1310	GOES 9 SATELL	ITE IMAGE		120/576	00/12	C'
0130/1330 0150/1350 0210/	RETRANSMISSI TROPICAL CYC SEA SURFACE CU	UN OF 101 LONE FORI JRRENT, WA	9/0730 ECAST(1) ATER TEMPERATURE AT 100M DEPTH	120/576 120/576 120/576	00/12	C'
0240/1440 0300/ 0320/1520 0340/ 0400/1540	SURFACE ANAL SEA SURFACE ANAL RETRANSMISSI BROADCAST SO RETRANSMISSI	YSIS WATER TEI ON OF 024 CHEDULE/N ON OF 015 OF 1019	MPERATURE 0/1440 /ANUAL AMENDMENTS 0/1350	120/576 120/576 120/576 120/576 120/576 120/576	00/12	C'
0421/ 0440/ 0459/1640 0518/1700 /1719 0548/ 0610/1750	WAVE ANALYSI WAVE ANALYSI 500HPA HEIGHT 850HPA HEIGHT WAVE ANALYSI 24HR SURFACE THE SECOND R 48/72 HR SUPE	S (NORTH ) S (JAPAN A , TEMPER/ , TEMPER/ S (1)(JAPAN PRESSUR ETRANSMI	PACIFIC) REA) ATURE ATURE, DEW POINT DEPRESSION N AREA) E, WIND, FOG, ICING, SEA ICE PROG SSION OF 0240/1440 SSION OF 0240/1440	120/576 120/576 120/576 120/576 120/576 120/576 120/576 120/576	0000 0000 00/12 00/12 1200 0000	Ċ X C C X Ċ

#### TOKYO, JAPAN

TIME	CONTENTS OF TRANSMISSION		RPM/IOC		MAP
0651/ 0710/1910 0730/ /1930 0750/1950 /2010 0820/ 0840/2040 0200/	24HR WAVE PROG (NORTH PACIFIC) METEOROLOGICAL SATELLITE PICTURE (GOES-9) 24HR WAVE HEIGHT PROG (JAPAN AREA) 24HR SURFACE PRESSURE, WIND, FOG, ICING, SEA IC TROPICAL CYCLONE FORECAST (1) 24HR WAVE HEIGHT PROG (1) (JAPAN AREA) 48HR SURFACE PRESSURE, WIND, FOG, ICING, SEA IC SURFACE ANALYSIS DETEANSMISSION OF 0750	CE PROG CE PROG	120/576 120/576 120/576 120/576 120/576 120/576 120/576 120/576	0000 06/18 0000 1200 06/18 1200 0000 06/18	
/2100 0920/2120 0940/ 1000/ /2200	48HR SURFACE PRESSURE, WIND, FOG, ICING, SEA IC RETRANSMISSION OF 0840/2040 RETRANSMISSION OF 0630/1950 RETRANSMISSION OF 0820 48/72HR SURFACE PRESSURE, PRECIPITATION PROG RETRANSMISSION OF 1719	CE PROG	120/576 120/576 120/576 120/576 120/576 120/576	1200 12/12	С
1019/ /2220 1040/2240 1100/2300 1119/2320 1140/2340	SEA ICE CONDITION ANAL(2)/48HR & 168 HR PROGS(3 72HR 500HPA HT/VORTICITY PROG RETRANSMISSION OF 0548/2040 RETRANSMISSION OF 0421/1930 RETRANSMISSION OF 0440/2010 RETRANSMISSION OF 0651/2100	)	120/576 120/576 120/576 120/576 120/576 120/576 120/576	LATEST 1200	L/L' C
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: A EVERY WEDNESDAY AND SATURDAY (SEASONAL). RETRANSMIS	AT 0130 ON TH SSION: AT 013	IE NEXT DAY 30 ON THE NEX'	TDAY	
MAP AREAS:	C - 1:20,000,000 27N 062E, 51N 152W, 05S C' - 1:20,000,000 39N 066E, 39N 146W, 01S C" - 1:20,000,000 38N 067E, 39N 148W, 01S L - 1:10,000,000 SEA OF OKHOTSK, NORTHERN SEA	106E, 02N 113E, 01S 112E, 01S OF JAPAN	160E 167E 167E I, BO HAI, AN	D	
	L' - 1:05,000,000 49N 140E 49N 151E, 41N X - 1: 6,000,000 46N 107E, 43N 160E, 18N	140E 40N 118E, 17N	149E 147E		

(INFORMATION DATED 01 APR 2004) http://www.kishou.go.jp/177jmh/JMH\_2004-04-01-(ENG).pdf

#### PEVEK, CHUKOTKA PENINSULA

CALL SIGN	IS FREQUENCIES 148 kHz	TIMES CONTINUOUS	EMISSION F3C	N PC	OWER
TIME	CONTENTS OF TRANSMISSIO	Ν	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 SIGN BMF	I FREQUENCIES TIMES 4616 kHz 5250 kHz 8140 kHz 13900 kHz 18560 kHz	EMISSION F3C F3C F3C F3C F3C F3C	<b>PO</b> 10 10 10 10 10	WER KW KW KW KW KW
TIME	CONTENTS OF TRANSMISSION	RPM/IOC		MAP Arfa
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 0600/1800 0620/1820 0630/1830 0640/1840 0650/1850 0710/1910 0730/1930 0745/1945 0755/1955 0805/ 0820 0820 /2035 0850/2050 0930/2130 1010/ /2150 /2150 /2200 /2210	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 300HPA ANALYSIS WITH PLOTTED DATA 300HPA ANALYSIS WITH PLOTTED DATA 850 SURFACE PRESSURE ANALY/RFS 500HPA HEIGHT ANALYS 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 36HR SURFACE PROG/RFS 24HR 500HPA PROG RFS 72HR SURFACE PROG/RFS 72HR 500HPA PROG GFS 200HPA EQUATORIAL BELT WIND ANALYSIS GFS 200HPA EQUATORIAL BELT WIND ANALYSIS GFS 200HPA EQUATORIAL BELT WIND PROG GFS 24HR 850HPA 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 72HR 200HPA EQUATORIAL BELT WIND PROG GFS 72HR 850HPA EQUATORIAL BELT WIND PROG GFS 72HR 80UFFACE PROG GFS 72HR 80UFFACE PROG GFS 72HR 80UFFACE PROG GFS 72HR 80UFFACE PROG GFS 72HR 80FFACE PROG GFS 120HR SURFACE PROG GFS 1	120/576 120/576	00/12 0000 1200 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	EMISSION	POWER
HLL2	5385 kHz	CONTINUOUS	F3C	3 KW
HLL2	5857.5 kHz	CONTINUOUS	F3C	3 KW
HLL2	7433.5 kHz	CONTINUÕUS	F3C	3 KW
HLL2	9165 kHz	CONTINUÕUS	F3C	3 KW
HLL2	13570 kHz	CONTINUÕUS	F3C	3 KW

#### SEOUL, REPUBLIC OF KOREA

TIME	CONTENTS OF TRANSMISSION	RPM/IOC	VALID TIME	MAP AREA
0000/1200	LOCAL WEATHER ADVISORY/WARNING REPORT (KOREAN)	120/576	00/40	
0020/1220		120/576	00/12	
0032/		120/576	0000	
0046/1246	MANUAL MENDMENTS	120/576	00/12	
0120/		120/576	00/12	
0200/1400	TYPHOON WARNING AND EOPECAST (1)(KOPEAN)	120/576	00/12	
0200/1400	KODEAN DENINGLIKA MONTHI Y WEATHED EODECAST (2)(KODEAN)	120/576	00/12	
/1500	I OCAL WEATHER ADVISORTE WEARNING REPORT (KOREAN)	120/576		
0320/1520	SEA-SHORE WEATHER OBSERVATION REPORT (KOREAN)	120/576	03/15	
0332/	LIGHTHOUSE WEATHER OBSERVATION REPORT (KOREAN)	120/576	0300	
0346/1546	WEATHER OBSERVATION REPORT FOR FISHERY (KOREAN)	120/576	03/15	
0415/	KOREAN PENINSULA WEEKLY WEATHER FORECAST (KOREAN)	120/576		
0440/1640	SURFACE ANALYSIS	120/576	03/15	
0455/1655	850MB ANALYSIS	120/576	00/12	
0507/1707	700MB ANALYSIS	120/576	00/12	
0519/1719	500MB ANALYSIS	120/576	00/12	
0600/1800	LOCAL WEATHER ADVISORY/WARNING REPORT (KOREAN)	120/576		
0620/1820	SEA-SHORE WEATHER OBSERVATION REPORT (KOREAN)	120/576	0618	
0632/	LIGHTHOUSE WEATHER OBSERVATION REPORT (KOREAN)	120/576	0600	
0646/1846	WEATHER OBSERVATION REPORT FOR FISHERY (KOREAN)	120/576	06/18	
0700/1900		120/576	0530/1730	
0712/	SSI OBSERVATION CHART OF NEAR KOREAN PENINSULA AREA	120/576	00/40	
0740/1940		120/576	06/18	
0800/2000	13HD SEA WAYLE HT & WIND FORECAST OF NEAD KODEAN DENINGULA	120/576	00/18	
0021/2021	27 A WAVE HT & WIND FORECAST OF NEAR KOREAN FENINSULA	120/576	00/12	
0034/2034	24 TR SEA WAVE HT & WIND FORECAST OF NEAR KOREAN FENINSULA	120/576	00/12	
004772047	SEA WEATHER CORECAST OVER NEAR KOREAN PENINSULA (KOREAN)	120/576	00/12	
0920/2120	SEA-SHORE WEATHER OBSERVATION REPORT (KOREAN)	120/576	0000/2000	
0920/2120		120/576	09/21	
0946/2146	WEATHER OBSERVATION REPORT FOR FISHERY (KOREAN)	120/576	09/12	
1012/2212	WEATHER FORECAST FOR SHIP ROUTE (KOREAN)	120/576	0830/2030	
/2227	LIGHTHOUSE WEATHER OBSERVATION REPORT (3) (KOREAN)	120/576	2200	
1040/2240	SURFACE ANALYSIS	120/576	09/21	

NOTES:

- 1. 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	IS FREQUENCIES TIMES 7396.8 kHz 17520 kHz	EMISSION F3C F3C	<b>PO</b> 3 10	WER KW KW
TIME CONT	TENTS OF TRANSMISSION	RPM/IOC	VALID TIME	MAP AREA
0100/0700 0120/ 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 12/12 1200	A A A A A A A A A

#### **BANGKOK, THAILAND**

TIME	CONTENTS OF TRANSMISSION	RPM/IOC	VALID TIME	MAP AREA
0400/1000 0420/ 0500/1020	FORECAST FOR SHIPPING (IN ENGLISH) 24 HR 850 MB WIND/TEMP PROG SURFACE ANALYSIS	120/576 120/576 120/576	03/09 1200 00/06	A A A
0500/ 0520/ 0540/ 0600/	TEST CHART 850 MB ANALYSIS 700 MB ANALYSIS 500 MB ANALYSIS	120/576 120/576 120/576 120/576	0000 0000 0000	A A A
/1300 /1700 /1720	FORECAST FOR SHIPPING (IN ENGLISH) FORECAST FOR SHIPPING (IN ENGLISH) SURFACE ANALYSIS	120/576 120/576 120/576 120/576	1200 1700 1200	A A
/2300 /2320	FORECAST FOR SHIPPING (IN ENGLISH) SURFACE ANALYSIS	120/576 120/576	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 SIGN RBV70 RPJ78 RBV78 RBX72 RCH72 RBV76	IS FREQUENCIES 3690 kHz 4365 kHz 5890 kHz 7570 kHz 9340 kHz 14982.5 kHz 0	<b>TIMES</b> 1300-0130 CONTINUOUS CONTINUOUS 0130-1300 CONTINUOUS CONTINUOUS	EMISSION F3C F3C F3C F3C F3C F3C	I P(	OWER
ТІМЕ	CONTENTS OF TRANSMISSION		RPM/IOC	VALID TIME	MAP AREA
/1215 0110/ 0130/1325 0155/1355 0255/1455 0345/1540 /1615 0420/ 0450/ 0515/ 0625/1850 0633/ 0650/ 0755/1930 0720/ 0755/1930 0845/ 0755/1930 0845/ 2020 0845/ 0930/2122 /2105 0930/2122 /2200 1005/ 1055/2255 /2345	NEPHANALYSIS RADAR DATA 18HR SIGNIFICANT WEATHER P SURFACE ANALYSIS SURFACE ANALYSIS 700MB ANALYSIS 400MB ANALYSIS 400MB ANALYSIS 300MB ANALYSIS 300MB ANALYSIS 300MB ANALYSIS 500/1000MB ANALYSIS 36HR 500MB PROG 36HR 850MB/700MB/500MB VER RADAR DATA PRECIPITATION AND MAX TEMF 400MB ANALYSIS SURFACE ANALYSIS SURFACE ANALYSIS 50MB ANALYSIS 36HR 850MB/700MB/500MB VER TROPOPAUSE ANALYSIS RADAR DATA 500/1000MB ANALYSIS SURFACE ANALYSIS SURFACE ANALYSIS 36HR 850MB/700MB/500MB VER TROPOPAUSE ANALYSIS SURFACE ANALYSIS	TICAL MOTION PROGS	90/576 90/576 60/576 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	0000 06/18 00/12 00/12 1200  0000 1500 0000 1200 12/00 12/00 12/00 12/00 12/00 12/00 0600 0600 06/18 1800 0600 06/18 1800 0600 00/12 2100 0000 09/21 1200	* ЕДВАААААВААССЕКАВААСАЕАВС

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

(INFORMATION DATED 09/1990)

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

CALL SIGN RBX70 RBX71 RIJ75 RCH73 ROM5	FREQUENCIES 3280 kHz 5285 kHz 8083 kHz 9150 kHz 13947 kHz	TIMES CONTINUOU CONTINUOU 1400-0200 CONTINUOU 0200-1400	SI SI SI	EMISSION F3C F3C F3C F3C F3C	N P(	OWER
TIME	CONTENTS OF TRANSMISSIO	N		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/ 0640/ 0715/ 0750/1930 /2 015 0830/ 0915/2105 /2122 /2139 0950/ /2155 /2212 1140/2320	BROADCAST SCHEDULE RADAR DATA 18HR SIGNIFICANT WEATHER PREBARIC CHART 48HR 500MB PROG 300MB ANALYSIS RADAR DATA 500MB ANALYSIS 850MB ANALYSIS 850MB ANALYSIS 200MB ANALYSIS 200MB ANALYSIS 100MB ANALYSIS PRECIPITATION/TEMPERATUR 400MB ANALYSIS RADAR DATA 100MB ANALYSIS 15HR 300MB/SIGNIFICANT WEA MAX WIND ANALYSIS 500MB ANALYSIS 500MB ANALYSIS 500MB ANALYSIS 700MB ANALYSIS 700MB ANALYSIS 800MB ANALYSIS 700MB ANALYSIS 300MB ANALYSIS 300MB ANALYSIS	PROG RE EXTREMES ATHER PROG ATHER PROGS		90/576 90/576 60/576 90/576	00/12 06/18 1800 00/12 03/15 00/12 1200 0300 00/12 1200 1200 1200 1200 0000 15/03 1200 0600 00/18 1800 1800 1800 1800 1800 1800	EHHCAEAABAAAAEAHDAA/DDEDDH *********************************
MAP AREAS:	$\begin{array}{llllllllllllllllllllllllllllllllllll$	43N 125E, 27N 123E, 49N 081E, 48N 095E, 58N 108E, 47N 118E, 58N 108E, 49N 079E,	16N         011E,           14N         030E,           26N         040E,           25N         026E,           30N         016E,           34N         029E,           30N         016E,           30N         046E,	15N 078E 02N 088E 28N 077E 22N 072E 31N 072E 24N 082E 31N 072E 31N 174E		

(INFORMATION DATED 07/1997) Update 03/2002 - Reported as being non-operational since mid 2001

#### KYODO NEWS AGENCY, JAPAN/SINGAPORE

CALL SIGN JJC JJC JJC JJC JJC JJC JJC 9VF/252 9VF/252	S FREQUENCIES 1 4316 kHz 0 8467.5 kHz 0 12745.5 kHz 0 16971 kHz 0 17069.6 kHz 0 22542 kHz 0 16035 kHz 0 17430 kHz 0	TIMES CONTINUOUS CONTINUOUS CONTINUOUS CONTINUOUS CONTINUOUS CONTINUOUS 0740-1010, 1415-1815 0740-1010, 1415-1815	EMISSION F3C F3C F3C F3C F3C F3C F3C F3C F3C	<b>PO</b> 5 10 15 15 15 10 10	WER KW KW KW KW KW KW KW
ТІМЕ	CONTENTS OF TRANSMISSION		RPM/IOC	VALID	MAP
0145 0200 0200 0245 0430 0540 0540 0540 0540 0610 0635	Sports Ed 2(R), (Seasonal during S MON: NX for 1 week TUE-SUN: NX (R),Epidemic Inform Ocean Information(N)(4th,14th, and Morning Ed(R), Sports Ed 1(R), NX WX Chart Ocean Information(n)(4th,14th, and TUE&FRI: Satellite Fishery Informa SAT&SUN: Ocean Graphic Informa SUN&MON: Sea Surface Current F TUE-SAT: English Ed (R) MON-SAT: FAX DAYORI 4(N), (exc	Sumo or High School baseball series) ation(R)(SUN only), d 24th,3rd,13th,23rd if a MON) (R) l 24th) tion Prog cept 2nd & 4th MON	60/576 120/576 60/576 60/576 120/576 120/576 60/576 60/576 60/576 120/576 60/576 60/576	0000	AREA
0650 0650 0705 0745	and every WED and FRI) SUN:WX Chart, Fishing Information MON-SAT: WX Chart Background Stories(N), Life(N)(exc SUN: Sunday Ed(N), FAX DAYORI 1,2,3 Sumo match (begins 0930 SAT as	(3 times per month) ept MON) (N) well)	60/576 60/576 60/576 60/576 60/576	0300 0300	
0745	MON-SAT: Evening Ed(N), Kaiun-Suisan News Epidemic Information(N)(SAT only) Sumo match (Seasonal)(N), FAX D	s(N) (Except SAT), , FAX DAYORI 1(N), AYORI 2(N)(except TUE&SAT)	60/576 60/576 60/576		
1100 1130 1335 1415 1445 1500 1645 1645 1810 1930 1930	Morning Ed(R), Sports Ed 1 (R), FA Sumo match (Seasonal)(N)FAX DA NX (N), Sumo match (Seasonal)(R) MON-FRI: English Ed (N) Background Stories(R), Life(R)(exc MON-FRI: Kaiun-Suisan News(R) Sports Ed 2(N), (Seasonal during S Morning Ed(N), Sports Ed 1(N), NX MON: Sunday Ed(R) TUE-SUN: Evening Ed(R) TUE-SUN: Evening Ed(R) MON: Evening Ed(R), NX(R), FAX TUE-SUN: Evening Ed(R), NX(R), FAX TUE-SUN: Evening Ed(R), NX(R), FAX TUE-SUN: Evening Ed(R), NX(R), I (no 4 on THU, SAT and TUE followi Also no 2 on WED and SUN)(R)	AX DAYORI 1(N), AYORI 2(N) ept MON) Sumo or High School baseball series; (R) DAYORI 2,1,3 (R) FAX DAYORI 2,1,4 ng 2nd & 4th MON 'S: NX(R), FAX DAYORI 2,1,4 (R)	60/576 60/576 60/576 60/576 60/576 60/576 60/576 60/576 60/576 60/576 60/576 60/576		
2215 2215	MON and DAY AFTER NATIONAL Morning Ed(R),Sports Ed 1,2(R),NX WX Chart TUE-SUN: Morning Ed(R), Sports Ed 1,2(R), N Kaiun-Suisan News(R) (Except SUI FAX DAYORI 1,2 (R)(no 2 on SUN WX Chart NX: Navigational Warning, N: New,	HOLIDAYS: ((R),FAX DAYORI 1-3(R)(3 Mon onl IX(R), N), Epidemic Info (SUN only) and WED) R: Repeat	y)60/576 60/576 60/576 60/576 60/576 60/576	2100 2100	

Some of these transmissions may be encrypted

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

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

<b>CALL SIGN</b> GYA GYA GYA GYA	IS FREQUE 6834 3289.5 18261 14436	ENCIES kHz kHz kHz kHz kHz	TIMES CONTINUOUS ALTERNATE CONTINUOUS ALTERNATE	EMISSION F3C F3C F3C F3C F3C	l PO 10 10 10 10	WER KW KW KW KW
TIME	CONTENTS OF TR	RANSMISSIO	N	RPM/IOC	VALID TIME	MAP AREA
0230/1430 0306/1506 0406/ 0506/1806 0630/1830 0642/1842 0654/1854 0706/1906 0718/1918 0754/ 0806/2006 0818/2018 0830/ 0842/2030 /2042 /2206	SCHEDULE SURFACE ANALYS SURFACE ANALYS SURFACE ANALYS SURFACE PROG SURFACE PROG SURFACE PROG SURFACE PROG SURFACE PROG SURFACE PROG Mixed Layer Depth Sea and Swell Prog Sea Surface Temp Sea and Swell Prog SURFACE PROG	SIS SIS SIS T +24 T +48 T +72 T +96 T +120 T +24 g T +24 g T +24 T +24 T +24 T +24 T +24 T +24		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	00/12 0000 00/12 00/12 00/12 00/12 00/12 00/12 00/12 0000 0000	

INFORMATION DATED 04 FEB 2004

http://www.users.zetnet.co.uk/tempusfugit/marine/fwocgulf.htm (Unofficial link, information unavailable from official sources)

## SOUTH AMERICA

#### PUERTO BELGRANO ARGENTINA

CALL SIGN LOR

#### FREQUENCIES 5705 kHz 12672 kHz

TIMES

EMISSION	POWER
F3C	
F3C	

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

(INFORMATION DATED July 1997)

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

<b>CALL SIGN</b> PWZ-33 PWZ-33	NS FREQUENCIES 12665 kHz 16978 kHz	TIMES CONTINUOUS CONTINUOUS	EMISSION F3C F3C	I PO 1 1	WER KW KW
TIME	CONTENTS OF TRANSMISSI	ON	RPM/IOC	VALID TIME	MAP AREA
0745/1630 0750/1635 0810/1655 0830/1715 0850/1735	TEST CHART SURFACE ANANYSIS (Hpa) WAVES SIG HEIGHT (m) AND WIND AT 10 m (KTS) PROG 1 SEA SURFACE TEMPERATU	) DIR PROG 12Z+36HR 2Z+36 HR RE	120/576 120/576 120/576 120/576 120/576	00/12 00/12 00/12 12/00	A B C D
MAP AREA:	A: 1:53,000,000 20N 090W, 20	0N 020E, 70S 090W, 70S 020E			

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

(INFORMATION DATED 15 Jun 2004)

http://www.dhn.mar.mil.br/chm/meteo/info/apend\_4ing.htm

#### VALPARAISO PLAYA ANCHA, CHILE

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

TIME	CONTENTS OF TRANSMISSION	RPM/IOC	VALID TIME	MAP AREA
1115 1130 1630 1645 1915 1930 2200 2215 2230 2310 2325	SURFACE ANALYSIS SATELLITE IMAGE SURFACE ANALYSIS SATELLITE IMAGE SIGNIFICANT WAVE MAP (MTS) SATELLITE IMAGE SURFACE ANALYSIS ICE REPORT 12HR WINDS BARB ISOTACHS FORECAST 12HR SURFACE FORECAST SATELLITE IMAGE	120/576 120/576 120/576 120/576 120/576 120/576 120/576 120/576 120/576 120/576 120/576	0600 0900 1200 1500 1200 1800 1800 1200 2100	444444444

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 CFH	FREQUE 122.5 4271 6496.4 10536 13510	NCIES kHz kHz kHz kHz kHz kHz	TIMES CONTINUOUS CONTINUOUS CONTINUOUS CONTINUOUS CONTINUOUS	EMISSION F3C F3C F3C F3C F3C F3C	POV 10 H 6 H 6 H	NER (W (W (W (W (W (W
TIME	CONTENTS OF	TRANS	MISSION	RPM/IOC TIME	VALID AREA	MAP
0001/ /1201 0101/ /1222 /1301 0201/1401 0301/1501 0322/1522 /1601 0401/1622 0422/1701 0501/ 0601/1801 /1822 0701/1901 0501/2101 1001/ 1001/ 1001/ /2201 /2201 1022/ /2201 1022/ /2201	LABRADOR COAS 3-DAY PROG SATELLITE PHOT 4-DAY PROG 5-DAY PROG 12/00Z SIGNIFICA 500MB ANALYSIS SURFACE ANALY 850MB FORECAS 36HR SURFACE F 850MB FORECAS 36HR SURFACE F 850MB FORECAS 18/06Z SIIGNIFICA 24/36HR SIGNIFICA 24/36HR SIGNIFICA SURFACE ANALY SST: NOVA SCOT OFA: NOVA SCOT OFA: NOVA SCOT SATELLITE PHOT NEWFOUNDLAND CFH BROADCAST GULF OF ST LAW	ST ICE CH O INFRAF NT WEAT SIS ECAST YROG T WINDS YROG T WINDS YROG YROS YROS YROS YROS YROS YROS YROS YROS	ART (SEASONAL) RED HER DEPICTION /E PROGNOSIS NEWFOUNDLAND - TUE/FRI SAT NEWFOUNDLAND - SUN/THU HU/FRI NEWFOUNDLAND - SUN/THU HU/FRI NEWFOUNDLAND - WED/SAT NEWFOUNDLAND - MON RT LE ECHART (SEASONAL)	120/576 120/576	LATEST 1200 0000 1200 12/00 00/12 00/12 12/00 00/12 12/00 00/12 18&00 12/00 06&12 18/06 0&12/12&0 06/18 LATEST LATEST LATEST LATEST LATEST LATEST LATEST LATEST	G GGABFBTACACAAFEEEE

#### NOTES:

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

(INFORMATION DATED 2003) http://www.ccg-gcc.gc.ca/mcts-sctm/ramn\_arnm/Atlantic/part\_5\_e.htm

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

<b>CALL SIGN</b> VFF VFF	FREQU 3253.0 7710.0	ENCIES kHz USB kHz USB	TIMES	EMISSION J3C J3C	Р	OWER 5 KW 5 KW
TIME	CONTENTS OF T	RANSMISSION		RPM/IOC		MAP
0500/ 1000/2100	ICE ANALYSIS (Al Marine Surface An Marine wind progn	REAS 1,2,3,4,5 alysis (Arctic) osis (Arctic) ( e	6,7) (perimental product)	120/576 120/576		AREA
/2125	Regional Marine W ICE ANALYSIS (Al	REAS 1,2,3,4,5	on request) 6,7)	120/576		
MAP AREA:	1. HUDSON 3. HUDSON 5. LABRADO 7. BAFFIN B	BAY (SOUTH) STRAIT PR COAST AY	2. 4. 6.	HUDSON BAY (NORTH) FOXE BASIN DAVIS STRAIT		

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

(INFORMATION DATED 2003) http://www.ccg-gcc.gc.ca/mcts-sctm/ramn\_arnm/Atlantic/part\_2\_e.htm

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

<b>CALL SIGN</b> VFR VFR	FREQU 3253.0 7710.0	ENCIES kHz kHz	TIMES 1 JUL 1 JUL	<b>5</b> -15 OCT -15 OCT	EMISSION J3C J3C J3C	PO 5 5	<b>WER</b> KW KW
ТІМЕ	CONTENTS OF T	RANSMISSION	N		RPM/IOC	VALID TIME	MAP AREA
0010/ 0700/ 1100/2330	ICE ANALYSIS (A ICE ANALYSIS (A Marine Surface Ar Marine wind progr Regional Marine V	REAS 7, 8, 9, 1 REAS 7, 8, 9, 1 halysis (Arctic) nosis (Arctic) (e: Vind Prognosis	10, 11) 10, 11) xperimei (on requ	ntal product) iest)	120/576 120/576 120/576		
MAP AREAS:	7. BAFFIN B 10. PARRY C	AY HANNEL	8. 11.	APPROACHES TO RESOL QYENN MAUDE/PRINCE F	UTE 9.E REGENT	EUREKA SC	OUND
(INFORMATIC	ON DATED 2003)	http://www.co	cg-gcc.g	c.ca/mcts-sctm/ramn_arnm/A	tlantic/part_2_	_e.htm	
SYDNEY - NOVA SCOTIA, CANADA							
CALL SIGN	FREQU	ENCIES	TIMES	6	EMISSION	PO'	WER

CALL SIGN VCO VCO	FREQUENCIES 4416 kHz 6915 kHz	5 TIMES 1121-1741 2200-2331	<b>EMISSION</b> J3C J3C J3C	POWER
TIME	CONTENTS OF TRANSMIS	SSION	RPM/IOC	VALID MAP TIME AREA
1121 1142 1741 2200 2331	ICE ANALYSIS GULF OF S ICE ANALYSIS EAST OR S ICE ANALYSIS ICEBERG L ICE ANALYSIS GULF OF S ICE ANALYSIS EAST OR S	T. LAWRENCE OUTHEAST NEWFOUNDLAN IMIT T. LAWRENCE OUTHEAST NEWFOUNDLAN	120/576 D WATERS 120/576 120/576 120/576 D WATERS 120/576	

(INFORMATION DATED 2003) http://www.ccg-gcc.gc.ca/mcts-sctm/ramn\_arnm/Atlantic/part\_2\_e.htm

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

CALL SIC NOJ	GN FREQUE 2054 4298 8459 12412.5	ENCIES kHz kHz kHz kHz kHz	<b>TIMES</b> 0950-1159, 1600-1748 CONTINUOUS CONTINUOUS 0400-0548, 2150-0018	<b>EMISSIC</b> F3C F3C F3C F3C F3C	ON PC 4 4 4 4	DWER KW KW KW KW
TIME	CONTENTS OF T	RANSMIS	SION	RPM/IOC	VALID	MAP
0400/1600 0403/1603 0427/1627 0437/1647 0456/1656 0506/1706 0517/1717 0548/1748 0950/2150 0953/2153 1017/2217 1027/2227 1037/2237 1047/2247 1057/2257 1117/2317 1128/2328 1138/2338 1148/	TEST PATTERN SURFACE ANALYS REBROADCAST 24 REBROADCAST 48 COASTAL MARINE SEA STATE ANALY GOES IR SATELLIT 500 MB ANALYSIS SYMBOLS AND CO REQUEST FOR CO TEST PATTERN SURFACE ANALYS 24HR WIND/WAVE 24HR SURFACE FC 48HR SURFACE FC 48HR SURFACE FO GOES IR SATELLIT 48HR WAVE PERIO 48HR 500 MB ANAL SEA SURFACE TEM COOK INI FT SEA IO	IS HR SURF FORECAS SIS/REBF E IMAGE NTRACTI MMENTS IS FORECAST PRECAST RECAST RECAST RECAST RECAST E IMAGE D, SWELI YSIS PERATUI	ACE F'CAST 2227/1027 ACE F'CAST 2237/1037 ST TABLES (ALASKA) ROADCAST ONS/SCHEDULE /PRODUCT NOTICE ST SEA ICE ANALYSIS L DIRECTION RE ANALYSIS	120/576 120/576 120/576 120/576 120/576 120/576 120/576 120/576 120/576 120/576 120/576 120/576 120/576 120/576 120/576 120/576 120/576 120/576	00/12 12/00 02/00 LATEST 00/00 00/12 00/12 00/12 00/12 00/12 LATEST 00/12 00/12 00/12 00/12 00/12 00/12	231 151 23311651147
/2348 /2358 /0008 /0018	96HR SURFACE FO 96HR WIND/WAVE F 96HR WAVE PERIO 96HR 500 MB ANAL	RECAST ORECAS D, SWELL YSIS		120/576 120/576 120/576 120/576 120/576	1200 1200 1200 1200 1200	- 1 1 1

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

NOTES: 1. BROADCAST MAY BE PERFORMED ON FOUR FREQUENCIES SIMULTANEOUSLY WHEN RESOURSES ARE AVAILABLE 2. CARRIER FREQUENCY IS 1.9 kHz BELOW THE ASSIGNED FREQUENCY 3. 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: nwsfoanc@alaska.net

(EFFECTIVE DATE Jan 15, 2004) (INFORMATION DATED Feb 10, 2004)tdr

MAP AREAS:

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

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

CALL SIGN NMC	FREQUENCIES TI 4346 kHz NI 8682 kHz C0 12590.5 kHz C0	I <b>MES</b> IGHT ONTINUOUS ONTINUOUS	EMISSION F3C F3C F3C	<b>PO</b> 4 4 4	WER KW KW KW
	22527 kHz D	AY	F3C F3C	4 4	KW
ТІМЕ	CONTENTS OF TRANSMISSION		RPM/IOC	VALID TIME	MAP AREA
0230/1430 0235/ 0248/1438 0259/1449 0310/1500 /1510 0320/1520 0333/1533 0345/1545 0355/1555 0408/ 0755/1608 /1930 0808/1933 0818/1943 0828/1953 0838/2003 0848/2013 0808/1953 0838/2003 0848/2013 0858/2023 /2033 /2033 /2033 /2149 0908/2113 0908/2113 0908/2113 0908/2113 0908/2137 0944/ 1008/ 1008/ 1008/ 1008/ 1115/2335 1126/ 1137/ 1148/ 1158/	IEST PATTERN TROPICAL 0/24 HR WIND/WAVE FG GOES IR SATELLITE IMAGE SEA STATE ANALYSIS TROPICAL 0/24HR WIND/WAVE FG SURFACE ANALYSIS (PART 1 NE I SURFACE ANALYSIS (PART 2 NW 500MB ANALYSIS TROPICAL CYCLONE DANGER AR TROPICAL CYCLONE DANGER AR TROPICAL A8HR WIND/WAVE FOR TEST PATTERN 24HR SURFACE FORECAST 24HR SURFACE FORECAST 48HR SURFACE FORECAST 48HR SURFACE FORECAST 48HR WIND/WAVE FORECAST 48HR WIND/WAVE FORECAST 48HR WIND/WAVE FORECAST 96HR WAVE PERIOD FORECAST 96HR SST ANALYSIS 85T ANALYSIS	ORECAST DRECAST (2 CHARTS) PACIFIC) REA (see note 1) REA (see note 1) REA (see note 1) REA (see note 1) RECAST ECTION FORECAST ECTION FORECAST PACIFIC) PACIFIC) PACIFIC) DRECAST (2 CHARTS) SWELL DIRECTION D/SWELL DIRECTION ) FORECAST	120/576 120/576	00&00 LATEST D0/12 12&12 00/12 00 1200 12	4 7/5 5/8 4 2 3 1 0 4 4 8 8 1 1 1 1 1 1 7 2 3 5 4 4 4 4 4 9 6 4 4
MAP AREAS:	1.         20N - 70N, 115W - 135E           3.         20N - 70N, 175W - 135E           5.         05N - 60N, WEST OF 100W           7.         05N - 55N, EAST OF 130W           9.         40N - 53N, EAST OF 136W	2. 20N - 701 4. 20S - 301 6. 23N - 421 8. 25N - 601 10. 0N - 40	N, 115W - 175W N, EAST OF 145\ N, EAST OF 136\ N, EAST OF 155\ N, 80W – 180	W W W W	
NOTES:1.REF 2.CAF 3. CO	PLACED BY HIGH WIND/WAVE WAP RRIER FREQUENCY IS 1.9 KHZ BEL MMENTS AND SUGGESTIONS COM	RNING WHEN NOT IN HURRIC LOW ASSIGNED FREQUENCY NCERNING THIS BROADCAST	ANE SEASON	RECTED T	-O:
	NATIONAL WEA	ATHER SERVICE/NOAA			

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

(INFORMATION DATED Aug 16, 2004)

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

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

CALL SIGN NMG	FREQUENCIESTIMES4317.9kHzCONTINUOUS8503.9kHzCONTINUOUS12789.9kHzCONTINUOUS17146.4kHz1200-2045	EMISSION F3C F3C F3C F3C F3C	<b>P(</b> 4 4 4	DWER KW KW KW KW
TIME	CONTENTS OF TRANSMISSION	<b>RPM/IOC</b>		
0000/1200 0005/1205 0020/1220 0035/1235 0045/1245 0055/1255 0105/1305 0115/1315 0125/1325 0135/1335 0150/ /1350 0200/1400 0215/1415 /1425 0225/1445 0600/1800	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 72 HR SURFACE FORECAST 72 HR WAVE PERIOD/SWELL DIRECTION (REBROADCAST OF 0150) GOES IR TROPICAL SATELLITE IMAGE 00HR SEA STATE ANALYSIS PRODUCT NOTICE BULLETIN HIGH SEAS FORECAST (IN ENGLISH) TEST PATTERN	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 18/06 00/12 00/12 00/12 00/12 00/12 00/12 21/09 0000 0000 00012 00/12 22/10	AREA 1 2 3 3 3 3 3 3 3 3 6 3 3 4 3 5
0605/1805 0620/1820 0635/1835 0645/1845 0655/1855 0705/1905 0715/1915 0725/1925 0735/1935 0750/1950 0800/2000 0815/2015 0825/2025 0845/2045	U.S. / TROPICAL SURFACE ANALYSIS (W HALF) 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 0125/1325 TROPICAL CYCLONE DANGER AREA* or HIGH WIND/WAVES 48 HR WAVE PERIOD/SWELL DIRECTION GOES IR TROPICAL SATELLITE IMAGE REBROADCAST OF 0215/1415 REQUEST FOR COMMENTS/BROADCAST SCHEDULE HIGH SEAS FORECAST (IN ENGLISH)	120/576 120/576 120/576 120/576 120/576 120/576 120/576 120/576 120/576 120/576 120/576 120/576 120/576 120/576	00/12 00/12 00/12 00/12 00/12 00/12 00/12 00/12 03/15 12/00 07/18 00/12 07/18 00/12	1233333 336343 5

NOTES:1.REPLACED BY HIGH WIND/WAVE WARNING WHEN NOT IN HURRICANE SEASON DEC 01 - MAY 15. VALID TIMES 00Z, 06Z,12Z AND 18Z. 05N - 40N, 35W - 100W 2.CARRIER FREQUENCY IS 1.9 KHZ BELOW ASSIGNED FREQUENCY 3.THIS BROADCAST ORIGINATES FROM THE TROPICAL PREDICTION CENTER (FORMERLY THE NATIONAL HURRICANE CENTER) OF THE NATIONAL WEATHER SERVICE. COMMENTS AND SUGGESTIONS SHOULD BE DIRECTED TO:

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

MAP AREAS: 1. 05S-5	0N, 55W-125W
2. 05S-5	0N, 00W-070W
3. 00N-3	1N, 35W-100W
4. 12S-4	4N, 28W-112W
5. 07N-3	1N, 35W-098W (AREA COVERED BY TEXT FORECAST)
6. 05N-6	0N, 00W-100W `

(Information dated Feb 10, 2004) http://weather.noaa.gov/fax/gulf.shtml

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

CALL SIGN NMF	I FREQUENCIES 4235 kHz 6340.5 kHz 9110 kHz 12750 kHz	TIMES 0230z-1015z CONTINUOUS CONTINUOUS 1400z-2215z	EMISSION F3C F3C F3C F3C F3C	<b>PO</b> 4 4 4 4	WER KW KW KW KW
TIME	CONTENTS OF TRANSMISSIO	Ν	RPM/IOC	VALID TIMEARE	MAP EA
0230/1400 /1405 /1420 /1433 /1443 0233/1453 0243/ 0305/ 0305/ 0305/1515 0325/1525 0338/1538 0351/ /1600 /1720 0402/1723 0415/1736 0428/1749	TEST PATTERN BROADCAST SCHEDULE (PAR BROADCAST SCHEDULE (PAR REQUEST FOR COMMENTS PRODUCT NOTICE BULLETIN PRELIMINARY SURFACE ANAL BROADCAST SCHEDULE (PAR BROADCAST SCHEDULE (PAR REQUEST FOR COMMENTS GOES IR SATELLITE IMAGE SEA STATE ANALYSIS SURFACE ANALYSIS (PART 1 M SURFACE ANALYSIS (PART 1) SURFACE ANALYSIS (PART 1) SURFACE ANALYSIS (PART 2) 500MB ANALYSIS	T 1) T 2) YSIS T 1) T 2) NE ATLANTIC) NW ATLANTIC) FIONAL ICE PATROL) (REBROADCAST OF 0325/1525) (REBROADCAST OF 0338/1538)	120/576 120/576 120/576 120/576 120/576 120/576 120/576 120/576 120/576 120/576 120/576 120/576 120/576 120/576 120/576 120/576 120/576	1200 00/12 00/12 00/12 00/12 0000 LATEST 00/12 00/12 00/12	1 51235 234
0428/1749 /1759 /1810 0745/1900 0755/ 0805/1905 0815/1915 0825/1925 0835/1935 0845/1945 0845/1945 0905/2005 0915/2015 /2035 /2035 /2045 /2045 /2055 /2105 /2115 0925/2125 0938/2138 0951/2151 1002/2202 1015/2215	SUMB ANALYSIS SEA STATE ANALYSIS ICE CHARTS (FROM INTERNA) TEST PATTERN PRELIMINARY SURFACE ANAL 24HR SURFACE FORECAST 24HR WIND/WAVE FORECAST 24HR 500MB FORECAST 36HR 500MB FORECAST 48HR SURFACE FORECAST 48HR WIND/WAVE FORECAST 48HR WAVE PERIOD FORECAST 96HR SURFACE FORECAST 96HR SURFACE FORECAST 96HR SURFACE FORECAST 96HR WIND/WAVE FORECAST 96HR WIND/WAVE FORECAST 96HR SURFACE ANALYSIS (PART 1) SURFACE ANALYSIS (PART 1) SURFACE ANALYSIS (PART 1) SURFACE ANALYSIS (PART 1)	TIONAL ICE PATROL) YSIS ST EBROADCAST OF 2045) NE ATLANTIC) WW ATLANTIC) (REBROADCAST OF 0925/2125) (REBROADCAST OF 0938/2138)	120/576 120/576	00/12 1200 LATEST 0600 00/12 00/12 12/00 00/12 00/12 00/12 00/12 00/12 00/12 1200 1200	44 111144444414444423623
MAP AREAS	1.       28N-52N, 45         2.       18N-65N, 10         3.       18N-65N, 40         4.       18N-65N, 55         6.       EQ-60N, 40	5W-85W E-45W W-95W E-95W W-95W W-130W			
NOTES:	<ol> <li>CARRIER FREQUENCY IS 1</li> <li>COMMENTS AND SUGGEST NATIONAL V NATIONAL O MARINE FO 5200 AUTH CAMP SPRI PHONE: (30 EMAIL: Davi</li> </ol>	9 KhZ BELOW THE ASSIGNED FRE IONS SHOULD BE DIRECTED TO: WEATHER SERVICE/NOAA CENTER FOR ENVIRONMENTAL PF RECAST BRANCH W/NMC31 ROAD NGS, MD 20746-4304 1) 763-8000 X7401/FAX: (301) 763-8 d.Feit@noaa.gov	EQUENCY. REDICTION 085		

(INFORMATION DATED Jul 20, 2004)

http://weather.noaa.gov/fax/marsh.shtml
### **INUVIK, CANADA**

<b>CALL SIGN</b> VFA	FREQUENCIES TIMES 8457.8 kHz	EMISSION J3C	POWER 1 KW
TIME	CONTENTS OF TRANSMISSION	RPM/IOC	VALID MAP TIME 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 2003) http://www.ccg-gcc.gc.ca/mcts-sctm/ramn\_arnm/pacific/part\_2\_e.htm (Update Mar 2002) Frequencies listed may be carrier frequencies, add 1.9 kHz for center frequency.

## **AIRBORNE ICE TRANSMISSIONS, CANADA**

CALL SIGN	I FREQUENCIES T 4616.0 kHz s 7708.1 kHz s 6915.1 kHz s	FIMES see below see below see below	EMISSION F3C F3C F3C	PC	OWER
TIME	CONTENTS OF TRANSMISSION		RPM/IOC	VALID TIME	MAP AREA
H+0 to H+29	Gulf of St. Lawrence (Winter)	7708.1 kHz	120/576		
H+0 to H+29	East Newfoundland waters (Winte	er) 7708.1 kHz	120/576		
H+0 to H+29	Eastern Arctic (Summer)	6915.1 kHz	120/576		
H+0 to H+19	Western Arctic (Summer)	7708.1 kHz or 4616.0 kHz	120/576		

Airborne Facsimile Transmissions of observed ice conditions from ice reconnaissance aircraft schedule on days flights are flown (as soon as possible after airborne):

(a) Specific Coast Guard and aerial reconnaissance units will be designated by operational orders as appropriate.
 (b) Frequencies are primary frequencies. The following alternate frequencies (kHZ USB) assigned to MSC/CCG for Radio

Facsimile Communications may be used as appropriate for

1) Unscheduled broadcasts to Canadian Ice Service.

2) Unscheduled aircraft tactical support.

3) Intership tactical support or when necessary due to prevailing HF propagation conditions:

3251.1, 4616.0, 6915.1 (Winter only) 8113.1, 10155.1, 10169.1, 12055.1, 13440.0, 14440.0, 15642.1, 17443.1, 18168.1, 20168.1, 20530.1.

For correct reception of these broadcasts on WMO standard facsimile recorders requiring 2300 Hz for black and 1500 Hz for white, radio receivers should be tuned in the upper sideband mode to the frequencies listed.

(INFORMATION DATED 2003http://www.ccg-gcc.gc.ca/mcts-sctm/ramn\_arnm/Atlantic/part\_5\_e.htm

## COAST GUARD ICE BREAKERS, CANADA

CALL SIGN	I FREQUENCIES 14770 kHz	TIMES see below	EMISSION F3C	I F	OWER
TIME	CONTENTS OF TRANSMISSION	١	RPM/IOC	VALID TIME	MAP AREA
1630-1649	CG UNIT 1		120/576		
1650-1709	CG UNIT 2		120/576		
1710-1729	CG UNIT 3		120/576		
1730-1749	CG UNIT 4		120/576		
1750-1809	CG UNIT 5		120/576		
1810-1829	CG UNIT 6		120/576		
1830-1849	CG UNIT 7		120/576		
1910-1929	CG UNIT 9		120/576		
1850-1909	CG UNIT 8		120/576		
1930-1949	CG UNIT 10		120/576		

(a) Specific Coast Guard and aerial reconnaissance units will be designated by operational orders as appropriate.
 (b) Frequencies are primary frequencies. The following alternate frequencies (kHZ USB) assigned to MSC/CCG for Radio

Facsimile Communications may be used as appropriate for

1) Unscheduled broadcasts to Canadian Ice Service.

2) Unscheduled aircraft tactical support.

3) Intership tactical support or when necessary due to prevailing HF propagation conditions:

3251.1, 4616.0, 6915.1 (Winter only) 8113.1, 10155.1, 10169.1, 12055.1, 13440.0, 14440.0, 15642.1, 17443.1, 18168.1, 20168.1, 20530.1.

For correct reception of these broadcasts on WMO standard facsimile recorders requiring 2300 Hz for black and 1500 Hz for white, radio receivers should be tuned in the upper sideband mode to the frequencies listed.

(INFORMATION DATED 2003) http://www.ccg-gcc.gc.ca/mcts-sctm/ramn\_arnm/Atlantic/part\_5\_e.htm

## PACIFIC OCEAN BASIN

## CHARLEVILLE, AUSTRALIA

CALL SIGN VMC VMC VMC VMC VMC VMC	IS FREQU 2628 5100 11030 13920 20469	ENCIES kHz kHz kHz kHz kHz kHz	TIMES 0900-1900 CONTINUOUS CONTINUOUS CONTINUOUS 1900-0900	EMISSION F3C F3C F3C F3C F3C F3C	N PC 1 k 1 k 1 k 1 k 1 k	OWER (W (W (W (W (W (W
WILUN	A, AUSTR	ALIA				
CALL SIGN VMW VMW VMW VMW VMW	N FREQU 5755 7535 10555 15615 18060	ENCIES kHz kHz kHz kHz kHz kHz	TIMES 1100-2100 CONTINUOUS CONTINUOUS CONTINUOUS 2100-1100	EMISSION F3C F3C F3C F3C F3C F3C	N PC 1 k 1 k 1 k 1 k 1 k	OWER (W (W (W (W (W (W
TIME	CONTENTS OF	<b>FRANSMISS</b>	ION	RPM/IOC		MAP Arfa
/1200 0015/1215 0030/1230 0045/ 0100/ 0130/	Australian MSLP VMC/VMW Scher VMC/VMW Scher VMC/VMW Inform IPS Recommend IPS RECOMMEN Indian Ocean MS	Prog (H+36) dule Page 1 d dule Page 2 d nation Notice ed Frequenci IDED FREQU I P Prog (H+1)	of 2 of 2 es for VMC (Charleville)) JENCIES FOR VMW 36)	120/576 120/576 120/576 120/576 120/576 120/576 120/576	1200	AUST
/1300 /1315 /1330 /1345 /1400 0200/ 0215/ 0230/	Australian Sigwx South Pacific Oce Indian Ocean Tot Pacific Ocean Se Indian Ocean Sea Australian MSLP Australian Sigwx Asian Current Wa	Prog Valid ean Total Wa al Waves (H- a Surface Te Prog (H+24) Prog arnings Sumr	ves (H+48) +48) mps (Weekly) mps (Weekly)	120/576 120/576 120/576 120/576 120/576 120/576 120/576 120/576	0600 0000 LATEST LATEST 0000 1800 LATEST	RSW SWP IO SWP IO AUST RSW H
/1415 0245/1430 /1445 0300/1500	Casey Eastern ar Australian MSLP Asian Current Wa Australian 500 hF	nd Western H Anal (Manua arnings Pa Anal	ligh Seas (H+48) I)	120/576 120/576 120/576 120/576	0000 00/12 LATEST 00/12	AUST H AUST
/1515 0330/1530 0400/1600 /1630 /1700	Australian MSLP Asian Sigwx Prog Australian 500 hF IPS Recommend IPS Recommend	Prog (H+36) Valid Pa (H+24) Pro ed Frequenci ed Frequenci	og es for VMC (Charleville) es for VMC (Wiluna)	120/576 120/576 120/576 120/576 120/576 120/576	1200 12/00 00/12	AUST D AUST
0600/1800 0623/1823 0645/ 0715/1900 0730/1915 0745/1930 0800/1945 0815/ 0830/ 0845/ 0845/ 0845/ 0845/	Asian (Part A) Gr Asian (Part B) Gr Asian MSLP Ana Australian Sigwx Indian Ocean MS Australian Wind V Australian Swell V Asian Current Wa South Pacific Oce Australian MSLP South Pacific Oce Casey Eastern an Australian MSLP	adient Level adient Level (Manual) Prog LP Anal (Mar Vaves Ht(m) Vaves Ht(m) Arnings Sum ean MSLP Ar Anal (Manua ean MSLP Ar d Western H	Wind Anal (Manual) Wind Anal (Manual) Prog Prog (H+24) nary nal I) nal (Manual) ligh Seas (H+24)	120/576 120/576 120/576 120/576 120/576 120/576 120/576 120/576 120/576 120/576 120/576 120/576	00/12 00/12 00/12 00/12 00/12 00/12 LATEST 0000 0600 1200 1200	A B C RSW IO AUST AUST SWP
/2030 /2045 0903/2100 0923/2120 0941/2140 1000/2200 1015/	Australian MSLP Asian Current Wa Asian 200 hPa Si Asian 500 hPa Si Asian 700 hPa Si Asian Sigwx Prog Casey Eastern ar	Anai (Manua arnings Sumn reamline Ana reamline Ana reamline Ana d Western H ad Western H	i) nary al al ligh Seas (H+24) ligh Seas (H+24)	120/576 120/576 120/576 120.576 120/576 120/576 120/576	LATEST 00/12 00/12 00/12 18/06 0000 1200	AUST H C C C D
/2215 1030/2230 1045/2245 1100/ 1115/2300 /2315	Casey Eastern an S.H. 500 hPa Pro S.H. MSLP Prog Casey Eastern an S.H. 500 hPa Ana Casey Eastern an	id vvestern H ig (H+48) (H+48) id Western H al id Western H	ligh Seas (H+36) ligh Seas (H+36) ligh Seas (H+48)	120/576 120/576 120/576 120/576 120/576 120/576	00/12 00/12 0000 00/12 1200	SH SH SH

## **CHARLEVILLE & WILUNA, AUSTRALIA**

TIME TIME	CONTENTS OF TR AREA	ANSMISSION			RPM/IOC	VALID	MAP
1130/ /2330 /2345 1145/	Asian Sea Surface Australian MSLP Pr Indian Ocean MSLF VMC/VMW Informa	Temp Anal (W <sup>r</sup> og (H+36) P Prog (H+48) tion Notice	eekly)		120/576 120/576 120/576 120/576	LATEST 0000 1200	e Aust Io
NOTES: 1. 2.	ALL WEEKLY OCEAI WERE BROADCAST THE CHARTS ARE C IS AVAILABLE TO RE FOR FURTHER INFO	NOGRAPHIC PI ONLY ONE DA DNLY UPDATED EPLACE THE O DRMATION COM	RODUCTS, SUCH AS SE Y A WEEK, ARE NOW B ONCE A WEEK, BUT BI LD CHART. ITACT:	A SURFACE T ROADCAST E\ ROADCAST EV	EMPERATURE /ERY DAY.HO /ERY DAY UNT	CHARTS, W WEVER, NC IL A NEW CI	/HICH )TE HART
			SYSTEM HELP PH: (+613) 9662 FAX: (+613) 966 EMAIL: opsgen(	DESK 2 2182 52 1223 @bom.gov.au			
MAP AREAS:	A: B: C: D: E: H: AUST: SEAUST- SWAUST- SWAUST RSW - IO - SWP - SWP - SH -	LAMBERT MERCATOR MERCATOR MERCATOR POLAR POLAR POLAR POLAR	30N - 35S, 120E - 180 30N - 35S, 070E - 130 30N - 35S, 070E - 180 43S 110E, 34S 155E 23N - 23S, 100E - 170 25N - 25S, 080E - 180 10S 090E, 50S 080E 31S - 40S, 148E - 156 25S - 37S, 110E - 120 0S - 50S, 100E - 180 10S - 90S, EQ - 090 20S - 90S, ALL LONG	E , 34N 142E, 2 E , 10S 170E, 5 E E ) ) E - 180 ) - 90W GITUDES	29N 096E 50S 180		

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

http://www.bom.gov.au/nmoc/rad sch/

### WELLINGTON, NEW ZEALAND

CALL SIGN	FREQUENCIES	TIMES	EMISSION	POWER
ZKLF	3247.4 kHz	0945-1700	F3C	5 KW
	5807 kHz	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

0000/1200         SOUTHWEST PACIFIC 30HR SURFACE PROG (MSL)         120/576         00/12         SWP           0100/1300         SOUTHWEST PACIFIC 48HR SURFACE PROG (MSL)         120/576         00/12         SWP           0200/1400         SOUTHWEST PACIFIC 72HR SURFACE PROG (MSL)         120/576         00/12         SWP           0300/1600         TASMAN-NEW ZEALAND MSL ANALYSIS         120/576         00/12         TNZ           0400/1600         SOUTHWEST PACIFIC MSL ANALYSIS         120/576         00/12         SWP           0900/2100         TASMAN-NEW ZEALAND MSL ANALYSIS         120/576         00/12         SWP           0900/2100         TASMAN-NEW ZEALAND MSL ANALYSIS         120/576         06/18         TNZ           1000/2200         SOUTHWEST PACIFIC MSL ANALYSIS         120/576         06/18         TNZ           1100/2300         TRANSMISSION SCHEDULE         120/576         06/18         SWP	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	120/576 120/576 120/576 120/576 120/576 120/576 120/576 120/576	00/12 00/12 00/12 00/12 00/12 06/18 06/18	SWP SWP TNZ SWP TNZ SWP

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

(INFORMATION DATED MAY 2002) http://www.metservice.co.nz/services/radiofax\_schedule.asp

### HONOLULU, HAWAII, U.S.A.

CALL SIC KVM70	GN         FREQUENCIES         TIMES           9982.5         kHz         1030-1630           11090         kHz         EXCEPT 2345-0354           16135         kHz         EXCEPT 1030-1630           23331.5         kHz         2345-0354	EMISSION F3C F3C F3C F3C F3C	<b>POWER</b> 5 KW 5 KW 5 KW 5 KW
TIME	CONTENTS OF TRANSMISSION	RPM/IOC VAI TIM	LID MAP IE AREA
0007/1147 /1210 0030/1230 0045/1245 0103/1304 0128/1328 0148/1350 0209/ 0234/ 0234/ 1412 /1412 0258/1444 0309/1503 0320/1522 0331/1541 0354/ 0437/1630 0533/1733 0545/1745 0605/1804 0630/1827 0645/1842 0656/1853 0721/1918	PACIFIC STREAMLINE ANALYSIS 48 HR SURFACE FORECAST EAST PACIFIC GOES IR SATELLITE IMAGE WEST PACIFIC GOES IR SATELLITE IMAGE NORTH PACIFIC SURFACE PRESSURE ANALYSIS 48HR SURFACE/1000-500MB THICKNESS FORECAST TROPICAL SURFACE ANALYSIS 24HR STREAMLINE/ISOTACH FORECAST 48HR STREAMLINE/ISOTACH FORECAST 48HR WIND/WAVE FORECAST 0/24 HR WIND/WAVE FORECAST 0/24 HR WIND/SEAS FORECAST (2 CHARTS) 48HR,48/72HR(2) WIND/WAVE FORECAST 48/72HR(2),48HR WAVE PERIOD/SWELL DIR REBROADCAST OF 0103/1304 72 HR SURFACE FORECAST 24 HR SURFACE FORECAST 72 HR SURFACE FORECAST 74 HR SURFACE FORECAST 75 HR SURFACE FORECAST 76 HR SURFACE FORECAST 77 HR SURFACE FORECAST 78 HR SURFACE FORECAST 79 ACIFIC SEA STATE ANALYSIS 78 COLONE DANGER AREA 78 TEST-ID-SYMBOLS-GENERAL NOTICE 51 SIGNIFICANT CLOUD FEATURES 74 CIFIC STREAMLINE ANALYSIS 74 CIFIC STREAMLINE ANALYSIS 75 COLONE DANGER AREA 75 COLONE DANGER AREA 76 STREAMLINE ANALYSIS 76 COLONE DANGER AREA 77 STREAMLINE ANALYSIS 78 COLONE STREAMLINE ANALYSIS 78 COLONE STREAMLINE ANALYSIS 78 COLONE DANGER AREA 78 STREAMLINE ANALYSIS 78 COLONE DANGER AREA 78 STREAMLINE ANALYSIS 78 COLONE COLONE STREAMLINE ANALYSIS 78 COLONE COLONE STREAMLINE ANALYSIS 78 COLONE COLONE STREAMLINE ANALYSIS 78 COLONE DANGER AREA 79 COLONE STREAMLINE ANALYSIS 78 COLONE STREAMLINE AN	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	\$\langle 06       K         \$\langle 00       G         \$\langle 166       C         \$\langle 00       D         \$\langle 00       C         \$\langle 00       D         \$\langle 00       C         \$\langle 15       A         \$\langle 16       C         \$\langle 16       C <t< td=""></t<>
0800/1956	TROPICAL SURFACE ANALYSIS SCHEDULE	120/576 06&06 120/576 00 120/576	/12 H
1030/2230 1045/ /2335	TROPICAL CYCLONE DANGER AREA SCHEDULE 24HR SURFACE FORECAST	120/570 09 120/576 120/576 00	//21 M 100 G
/2345	48HR SURFACE FORECAST	120/576 00	õõ Ğ

MAP AREAS: A	-	50N-30S, 110W-160E	J	-	50N-EQ , 110W-130E
С	-	60N-55S, 055W-070E	Κ	-	30N-30S, 110W-130E
D	-	50N-30S, 100W-120E	Μ	-	30N-20S, 70W-140W
E	-	60N-35S, 110W-130E	EΡ	-	55N-40S, 110W-155E
F	-	50N-25S, 120W-120E	SP	-	05N-40S, 130W-165E
G	-	30N-20S, 145W-080W	NPA	۰ ۸	55N-EQ,010W-160E
Н	-	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 10N.
- (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) TROPICAL CYCLONE DANGER GRAPHIC TRANSMITTED DURING HURRICANE SEASON.

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

(8) BROADCAST MAY BE PERFORMED CONTINUOUSLY ON FOUR LISTED FREQUENCIES WHEN RESOURSES ARE AVAILABLE.

(9) TRANSMITTERS MAY BROADCAST AT 10KW AT TIMES.

(10) YOU MAY ADDRESS COMMENTS ABOUT THIS BROADCAST TO:

KVM70 National Weather Service 2525 Correa Rd. Honolulu, HI 96822-2219 PHONE: (808) 973-5286 x237/FAX: (808) 973-5271 E-Mail W-HFO.Webmaster@noaa.gov

(INFORMATION DATED June 17, 2004) http://weather.noaa.gov/fax/hawaii.shtml

## EUROPE

## SKAMLEBAEK, DENMARK

CALL SIGN OXT (1)	I FREQU 5850 9360	ENCIES kHz kHz	TIMES 0028-1005 0003-0025	EMISSION F3C	<b>PO</b> 20	WER KW
	0000	ΝΠΖ	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
ТІМЕ	CONTENTS OF	RANSMIS	SION	RPM/IOC	VALID TIME	MAP AREA
0003(2) 0028 0943 1008 1153 1218 1243 1308 1333 1803 1828	ICE CHART #2 (0 ICE CHART #2 (0 ICE CHART #1 ICE CHART #1 ICE CHART #1 ICE CHART #1 ICE CHART #2 (0 ICE CHART #2 (0 ICE CHART #2 (0 ICE CHART #1 ICE CHART #1	DR #1) DR #1) DR #1) DR #1) DR #1)		120/576 120/576 120/576 120/576 120/576 120/576 120/576 120/576 120/576 120/576 120/576		

NOTES:(1)

(2) (3)

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**

<b>CALL SIGN</b> SVJ4 SVJ4	FREQUENCY TIME 4481 kHz 8105 kHz	5	<b>EMISSIO</b> F3C F3C	N POWER 0.4 KW 0.4KW
ТІМЕ	CONTENTS OF TRANSMISSION	RP	M/IOC V T	ALID MAP IME 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+36) WAVE HEIGHT PROG (H+42) WAVE HEIGHT PROG (H+48)	120 120 120 120 120 120 120 120 120 120	0/576         0           0/576         0           0/576         1           0/576         1           0/576         1           0/576         1           0/576         1           0/576         1           0/576         1           0/576         1           0/576         1           0/576         1           0/576         1           0/576         1           0/576         1           0/576         1	600         A           600         A           600         A           200         B           200         B           200         B           200         C           200         C           200         C           200         C           200         C           200         C

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

C - AEGEAN

(INFORMATION DATED (04/2001)

## HAMBURG/PINNEBERG, GERMANY

CALL SIGN	S FREQUENCIES TIM	IES	<b>EMISSION</b>	PO	WER
DDH3	3855 kHz CO	NTINUOUS	F1C	10	KW
DDK3	7880 kHz CO	NTINUOUS	F1C	20	KW
DDK6	13882.5 kHz CO	NTINUOUS	F1C	20	KW
тімғ	CONTENTS OF TRANSMISSION		RPM/IOC		ΜΔΡ
· ···· <b>—</b>				TIME	AREA
/1206	H+96 (GSM) Sea and swell, Wind (10)	m)	120/576	0000	
/1219	Ice Chart northwesternpart atlantik		120/576	0000	
/1232	Ice conditions chart West Baltic Sea or	special area	120/576	0000	
/1540	Ice conditions chart West Baltic Sea or	special area	120/576	0900	
0430/1600	Surface weather chart	opeelal alea	120/576	00/12	
0500/	H + 00, H + 24( GME ) surface P and v	wind (10m)	120/576	0000	
0512/	h + 30 (GME) surface pressure	the design of the former of the	120/576	1800	
0525/1800	surface pressure analysis, arrows show	wing the movement of pressure	120/576	00/12	
0546/1821	Information of tropical storms. North At	tlantic (during the season)	120/576	03/15	
0559/	H + 12, H + 24 (GME) 500 hPa H + T,	surface P	120/576	0000	
0612/	H + 12, H + 24 (GME) 850 hPa H + T,	700 hPa_U	120/576	0000	
0625/	H + 36, H + 48 (GME) 500 hPa H + T,	surface P	120/576	0000	
/1834	H+24 (GME) SUFFACE pressure H+36 $H+48$ (GME) 850 bPa $H+T$		120/576	1200	
/1847	Repetition 07 30 UTC H+48 (GMF) su	Inface pressure	120/576	1200	
0651/	H + 60, H + 72 (GME) 500 hPa H + T,	surface P	120/576	0000	
/1900	Repetition 08.04 UTC, H+72 (GME) su	Irface pressure	120/576	1200	
0704/	H + 60, H + 72 (GME) 850 hPa H + T, 1	700 hPa U	120/576	0000	
1912*	H + 00, H + 24( GME ) surface P and v	wind (10m)	120/576	1200	
0730/	H+48 (GME) surface pressure		120/576	0000	
0743/	Repetition chart 0525 UTC		120/576	0000	
0804/	H+72 (GME) surface pressure		120/576	0000	
0817/	H+96 (GME) surface pressure		120/576	0000	
0830/1924*	analysis (GME) 500 hPa, pressure		120/576	00/12	
0842/1930"	H+36, H+48 (GME) SUFFACE P and WING	a (10 m)	120/576	00/12	
0004/1940	H+36 (GME) 850 hPa 700 hPa 11		120/576	00/12	
0918/2012*	H+72, $H+96$ (GME) surface P and wind	d (10 m)	120/576	00/12	
/2024	H+24 (GSM) sea and swell		120/576	1200	
/2036	H+48 (GSM) sea and swell		120/576	1200	
/2048	H+72 (GSM) sea and swell		120/576	1200	
/2100	H+24 (GSM) Sea and Swell, Wind (10)	m)	120/576	1200	
/2100	Ice conditions chart West Baltic Sea		120/576	1500	
/2137	H+48 wave prediction		120/576	1200	
0943/	Sea surface temperature North Sea		120/576	0000	
1004/	H+48 (GSM) Sea and swell, Wind (10)	m)	120/576	0000	
1016/	H+72 (GSM) Sea and swell, Wind (10)	m)	120/576	0000	
1029/	Surface weather chart		120/576	0000	
1111/	Transmission schedule		120/576	00/10	
1132/	Test chart		120/576		
1145/	Repetition chart 1050 utc		120/576	0600	

\* Special transmissions for FS Polarstern

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 (Jun 16, 2004, effective until 02 Oct 2004) http://www.dwd.de/de/wir/Geschaeftsfelder/Seeschifffahrt/Sendeplaene/e\_faxplan.htm

## **ROME, ITALY**

CALL SIGN IMB51 IMB55 IMB56	NS FREQUE 4777.5 8146.6 13597.4	NCIES kHz kHz kHz kHz	TIMES CONTINUOUS CONTINUOUS CONTINUOUS	EMISSION F3C F3C F3C F3C	I <b>PO</b> 5 5 5	<b>WER</b> KW KW KW
TIME	CONTENTS OF TR	RANSMISSIO	Ν	RPM/IOC	VALID TIME	MAP AREA
0048/ 0248/ 0400/ 0415/ 0425/ 0510/ 0522/ 0535/ 0848/ 0848/ 0906/ 0906/ 0920/ 1000/ 1030/ 1045/ 1045/ 1248/ 1248/ 1448/ 1610/ 1630/ 1645/ 1645/ 1645/ 1645/ 1645/ 1730/ 1730/ 1730/ 1730/ 1730/ 1730/ 1810/ 1730/ 2230/ 2230/ 22312/ 2335/	FL 390, 340, 300, 2 SW TMW FL 100.4 SW TMW FL 100.4 DP 3H 00/Z; AU 50 AS (ORA LEGALE) FRZL 00/Z; AU850 ITALIA 03/Z AS (ORA SOLARE AU 700 00/Z; AU 3 AU 200 00/Z; AU 3 AU 200 00/Z; TMW SWL for 12/Z FL 390, 340, 300, 2 SW TMW FL 100-4 FU 500 H + 36 FU 500 H + 72 FU 500 H	240, 180, 100, 50 for 12/Z di 50 FOR 12/Z 00/0Z 00/Z 00/Z 240, 180, 100, 450 for 18/Z d 450 18/Z (in m R 06/Z TERRANEO fi 240, 180, 100, 450 for 00/Z d 450 for 00/Z d 450 for 00/Z d 500/12Z 00 12/Z 12/Z 12/Z 240, 180, 100, 450 for 06/Z d TERRANEO fi R 18/Z 40 for 06/Z (in	50 SW for 12/Z di BRACKNELL BRACKNELL (in mancanza della SW delle 02:48) 50 SW for 18/Z di BRACKNELL i BRACKNEL nancanza della SW delle 08:48) or 12/Z 50 SW for 18/Z di BRACKNELL i BRACKNELL n mancanza della SW delle 14:48) 50 SW for 06/Z di BRACKNELL i BRACKNELL or 00/Z mancanza della SW delle 20:48)	120/576 120/576		

SW TMW: Tempo significativo + tropopausa e vento massimo; FZRL: freezing level; SWL: tempo significativo bassi livelli;

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

AS: analisi al suolo;

DP: tendenza barometrica.

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

## MOSCOW, RUSSIA

CALL SIGN RCC76 RDD78	IS FREQUENCIES TIMES 3830 kHz 5008 kHz 6987 kHz 7695 kHZ 10980 kHz 12961 kHz 11617 kHz	<b>EMISSION</b> F3C F3C F3C F3C F3C F3C F3C F3C	POWER
ТІМЕ	CONTENTS OF TRANSMISSION	RPM/IOC	VALID MAP TIME AREA
0003/ /1210 0016/ /1225 0029/ /1240 0044/ /1253 0059/ /1306 0114/ 0114/ 0151/1333 /1355 0215/1417 0245/1447 0337/1539 0407/1609 0437/1639 0513/1715 0543/ /1805 0607/ /1805 0607/ /1817 0619/ /1817 0619/ /1817 0619/ /1817 0619/ /1817 0619/ /1822 0644/ /1832 0644/ /1832 0644/ /1832 0644/ /1832 0704/ /1930 0739/ /1943 0752/ /1943 0752/ /1943 0752/ /2031 0822/ /2031 0934/ /2201 1013/ /2216	18HR SIGNIFICANT WEATHER PROG BELOW 400MB 24HR 300MB PROG 24HR 300MB PROG 30HR 200MB PROG 30HR 200MB PROG 30HR 250MB PROG 30HR 300MB PROG 30HR 300MB PROG 18HR SIGNIFICANT WEATHER PROG BELOW 400MB 30HR 300MB PROG 500MB ANALYSIS 500MB ANALYSIS 600MB ANALYSIS 700MB PROG 700MB PROG 7000MB P	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 90/576 120/288 120/288 120/288 120/288 120/288 120/576 12	1200         Q           0000         R           1200         M           0000         R           1200         R           0000         M           1200         R           0000         Q           1200         R           1800         R           1200         R           1200         R           1200         R           1200         R           1200         R           1200         N           00/12         U           0000         U           1200         M           0200         R           1200         M           0600         R           0600         R           0600         R           0600         R           0600         R           0600         R           0600         U

## **MOSCOW, RUSSIA**

TIME	CONTENTS OF TRANS	MISSION			RPM/IO		
/2231 1040/2246 1116/	24HR 300MB PROG SURFACE ANALYSIS				120/576 90/576	1200 09/21	R P
/2322 /2337 1140/ /2350 1155/	24HR SIGNIFICANT WE 18HR SIGNIFICANT WE 24HR 200MB PROG 18HR 300MB PROG 24HR 250MB PROG	ATHER PROG ATHER PROIG	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 P Q R U X	- 1:15,000,000 - 1:30,000,000 - 1:05,000,000 - 1:07,500,000 - 1:30,000,000 - 1:20,000,000 - 1:30,000,000	56N 018W, 03N 097W, 67N 002E, 61N 010E, 39N 066W, 32N 051W, NORTHERN H	58N 108E, 03S 027W, 42N 028E, 43N 022E, 08N 014E, 15N 014E, EMISPHERE 90	30N 016W, EQ 142E, 74N 061E, 61N 071E, 18N 149E, 32N 167E, N - 20N	32N 05S 44N 43N 02S 16N	072E 077E 055E 059E 088E 103E	

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

## **MURMANSK, RUSSIA**

CALL RBW 4 RBW4	<b>SIGN</b> 41 .8	<b>FREQUE</b> 5336 6445.5 7908.8 10130	NCIES kHz kHz kHz kHz	TIMES CONTINUOUS 1900-0600 0600-1900	EMISSION F3C F3C F3C F3C F3C	PC	)WER
TIME	CONTE	NTS OF TR	ANSMISSION	I	RPM/IOC	VALID TIME	MAP AREA
0700 0800 1400 1400 1430 1850 2000	36HR SURFA SEA STATE A SURFACE TE ANAL OF ICE 24HR SEA ST BROADCAST ICEBERG PR	CE PROG NALYSIS MP ANALYS BERG POS ATE PROG SCHEDULE OGNOSIS	SIS/ICEBERG ITIONS FOR F E	POSITIONS PAST+24HR	120/576 120/576 120/576 120/576 120/576 90/576 120/576	0000 0600 1200 1200 1200	ACBCC

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

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

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

## NORTHWOOD, UNITED KINGDOM

CALL SIGNS	FREQUE	NCIES	TIMES	EMISSION	POWER
GYA	2618.5	kHz	At least 2 freg in use at any time	F3C	10 KW
GYA	4610	kHz	At least 2 freq in use at any time	F3C	10 KW
ĞYA	8040	kHz	At least 2 fred in use at any time	F3C	10 KW
GYA	11086.5	kHz	At least 2 freq in use at any time	F3Č	10 KW

TIME	CONTENTS OF TRANSMISSION	RPM/IOC	VALID TIME	MAP AREA
0000/1200 0012/1212 0024/1224 0036/1236 0048/1248 0100/1300 0112/1312	Analysis Prog 24 Prog 24 Wind/Pptn Prog 24 Td/SST diff Ship Ice Accretion Main schedule OSI	120/576 120/576 120/576 120/576 120/576 120/576 120/576	18/06 18/06 18/06 18/06 12/00	
0024/1324 0036/1336 0236/1436 0300/1500 0336/1536	Auxiliary schedule Front and Eddies Analysis Analysis SST	120/576 120/576 120/576 120/576 120/576 120/576	00/00 00/12 00/12	
0348/1548 0400/1600 0412/1612 0424/1624 0436/1636	Gale Warning summary Analysis Prog 24 Prog 24 Wind/Pptn Prog 24 Td/SST diff	120/576 120/576 120/576 120/576 120/576	04/16 00/12 00/12 00/12 00/12	
0448/1648 0500/1700 0512/1712 0524/1724	SCEXA TAFS Analysis Prog 24 Prog 48	120/576 120/576 120/576 120/576 120/576	06/12 00/12 00/12 00/12 00/12	
0530/1730 0548/1748 0600/1800 0612/1812 0648/1848	Gale Warning summary Analysis Prog 24 SCEXA TAFS	120/576 120/576 120/576 120/576 120/576	06/18 06/18 00/12 00/12 07/19	
0700/1900 0712/1912 0724/1924 0736/1936 0748/1948	Spare TAFS 850Mb WBPT prog 24 Prog 48 Prog 72 Prog 96	120/576 120/576 120/576 120/576 120/576	00/07/12/13 00/12 00/12 00/12 00/12	
0800/2000 0812/2012 0824/2024 0836/2036 0848/2048	Prog 120 Thickness/GPH Anal Sig Winds Countour 48 Sig Winds Countour 72 Sig Winds Countour 96	120/576 120/576 120/576 120/576 120/576	00/12 00/12 00/12 00/12 00/12	
0900/2100 0912/2112 0924/2124 0936/2136 0948/2148	Analysis Thickness/GPH Anal Thickness/GPH Prog 24 850 winds 24 700 winds 24	120/576 120/576 120/576 120/576 120/576	06/18 00/12 00/12 00/12 00/12	
1000/2210 1012/2212 1024/2224 1036/2236	Analysis Prog 24 Reduced Vis Prog 24 Prog 24 Td/SST diff	120/576 120/576 120/576 120/576 120/576	06/18 06/18 06/18 06/18 06/18	
1100/2300 1112/2312 1124/2324 1136/2336	Analysis Prog 24 Sea and Swell Prog 24 Thickness/GPH Prog 24	120/576 120/576 120/576 120/576 120/576	06/18 06/18 06/18 06/18 00/12	

(INFORMATION DATED 20 MAY 2004)

# ANTARTICA

## CASEY, ANTARCTICA

<b>CALL SIGN</b> VLM	FREQUENCIES 7470 kHz	TIMES CONTINUOUS	EMISSION F3C	<b>PO</b> 1	NER KW
TIME	CONTENTS OF TRANSMISSION	١	RPM/IOC	VALID TIME	MAP AREA
0000/1200 0020/1220 0040/1240 0100/1300 0200/0320 0700/ /1900 0800/2000 1000/2200 1000/2200 1020/2220 1040/2240 1100/2300 1120/2320 1140/2340	48Hr Mean Sea Level Prognosis 48Hr Surface Wind Forecast 48Hr Total Wave Height Forecast 60Hr Mean Sea Level Prognosis 72Hr Mean Sea Level Prognosis BROADCAST SCHEDULE SEA SURFACE TEMPS NMOC Manual Surface Analysis 24Hr Mean Sea Level Prognosis 24Hr Surface Wind Forecast 24Hr Total Wave Height Forecast 36Hr Mean Sea Level Prognosis 36Hr Surface Wind Forecast 36Hr Total Wave Height Forecast	t t	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	12/00 12/00 00/12 12/00 WEEKLY 00/12 00/12 00/12 00/12 00/12 12/00 12/00	
NOTES:	COMMENTS OR SUGGESTIONS STEVE s.pendl Phone: GPO B Hobart,	S MAY BE FORWARDED TO: PENDLEBURY ebury@bom.gov.au +61 3 62212021, FAX +61 3 622120 OX 727G Tasmania 7001, Australia	80		

(INFORMATION DATED 2004)

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

## APPENDICIES

#### NATIONAL WEATHER SERVICE MARINE PRODUCTS VIA INTERNET INCLUDING RADIOFAX

The Internet is **not** part of the National Weather Service's operational data stream and should never be relied upon as a means to obtain the latest forecast and warning data. 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 Product Dissemination Information webpage** contains information on the dissemination of U.S. National Weather Service marine products including radiofax such as frequency and scheduling information as well as links to products. The webpage may be found at:

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

#### Marine Text 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. A limited number of graphics using these data are available via the Internet on an experimental basis. 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://sgiot2.wwb.noaa.gov/COASTWATCH/). Information and links to Sea Surface Temperature Charts and Gulf Stream charts may be found on our FAQ webpage (http://www.nws.noaa.gov/om/marine/faq.htm). NEXRAD Doppler Radar images (http://weather.noaa.gov/radar/mosaic/DS.p19r0/ar.us.conus.shtml) are available on the Internet on the NWS Homepage (http://www.nws.noaa.gov) and Iocal NWS Forecast Offices homepages (http://www.nws.noaa.gov/om/marinr/marine\_map.htm). NEXRAD Doppler Radar images may also be found on local cable channels and the Internet webpages of local media including TV stations, radio stations and newspapers as well as others

#### 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://co-ops.nos.noaa.gov/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. 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.

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.

#### 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.

#### 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://coops.nos.noaa.gov/d\_ports.html). PORTS is a program of the U.S. **National Ocean Service** (http://www.nos.noaa.gov) that supports safe and cost-efficient avoid groundings and collisions. Several National Ocean Service tide gages are also equipped with ancillary meteorological sensors (http://tidesonline.nos.noaa.gov/geographic.html). Regionally focused observation data may also be found on the webages of local NWS Forecast Offices. Some marine observations may also be found on our **NWS Marine Product Listing and Schedule** (http://www.nws.noaa.gov/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://wwwfrd.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. Among these mesonets, are observing systems at several U.S. Coast Guard stations (http://uscg.instaweather.com/) as part of the Homeland Security WeatherNet Network (http://www.aws.com/aws\_2001/homeland/index.html) which is a public-private partnership between AWS Convergence Technologies (http://www.aws.com/aws\_2001/default.asp) and NWS. 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://www.coops.nos.noaa.gov) for the calendar year are available from the **National Ocean Service** (http://www.nos.noaa.gov). Read the **NOS Tides FAQ** (http://www.co-ops.nos.noaa.gov/faq1.html) for further information on obtaining NOS tides and tidal current data. *Caution is urged in using tide data made available at University and other webpages. This information may not be based on current government data and be of unknown quality.* 

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://coops.nos.noaa.gov/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/), Penn State http://www.ems.psu.edu/cgi-bin/wx/offshore.cgi), Oceanweather (http://www.oceanweather.com/data/index.html) and Great Lakes Ship Locations (http://reef.atmos.colostate.edu/drummond/)

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), **Palm.Net** (http://www.palm.com/products/palmvii/wireless.html), **OmniSky** (www.omnisky.com/), **TeleSea** (http://www.teleseawireless.net// ), **Motient** (http://www.motient.com/), **eHarbor** (www.eharbor.org) and **AlwaysOnline.net** (www.alwaysonline.net) 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.thuraya.com), **Emsat** (www.eutelsat.com/products/2\_4\_2.html), **AceS** (www.accesinternational.com/), **tracNet/DirecPC** (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/), **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.sailmail.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 are by voice where there is always the possibility of misunderstanding. Visit http://www.nhc.noaa.gov/aboutwap.html 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 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/mia/newpage/cgi-bin/master.pl?suite=wireless)

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/)

A Palm Query application named MarineWX for PALM compatible PDA's is now available to obtain the most popular NWS marine text forecasts. This software requires that your Palm be directly connected to the Internet using a Palm Modem, interconnection to your cellular telephone, etc. See: http://www.nws.noaa.gov/om/marine/internet.htm#palm

#### 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:	ftpmail@weather.noaa.gov
Subject line:	Put anything you like
Body:	help

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

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).

#### University of Illinois Listserver

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

#### Internet Broadcasts

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

#### 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).

#### **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/pub/data/raw/ http://iwin.nws.noaa.gov/pub/data/text/ ftp://iwin2.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 NWS Marine Forecasts NWS Marine Text Products NWS Marine Radiofax Products NWS Voluntary Observing Ship Program AMVER/SEAS Homepage http://www.nws.noaa.gov http://www.nws.noaa.gov/om/marine/home.htm http://www.nws.noaa.gov/om/marine/home.htm#text http://www.nws.noaa.gov/fax/marine.shtml http://www.vos.noaa.gov http://seas.amverseas.noaa.gov/seas/

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

See these sites for further links

Naval Oceanographic Office	http://www.navo.navy.mil
Navy Fleet Numerical	http://www.fnmoc.navy.mil
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

**APPENDIX A-7** 

FTPMAIL help file \* \* \* \* \* \* \* \* \* \* \* \* \* \* \* \* \* WARNING \* \* This is a United States Government Computer. Use of \* this computer for purposes for which authorization \* has not been extended is a violation of federal law. \* \* (Reference Public Law 99-474) \* For Help contact: \* \* Timothy.Rulon@noaa.gov 301-713-1677 x 128 \* Clifford.Fridlind@noaa.gov 301-713-0882 x 122 \*

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

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

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

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

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.html

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 gdil1.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 get ftpcmd.txt (List of FTPMAIL commands) get rfaxtif.txt (TIFF suggestions) get rfaxatl.txt (Atlantic radiofax file directory) get rfaxpac.txt (Pacific radiofax file directory) get rfaxmex.txt (Gulf of Mexico and Trop Atl radiofax file dir) get rfaxak.txt (Alaska radiofax and ice file directory) get rfaxhi.txt (Hawaii radiofax file directory) (Foreign charts file directory) get otherfax.txt (Highseas, Offshore, Open Lakes, NAVTEX text file dir) get marinel.txt get marine2.txt (Hurricane text file directory) get marine3.txt (Coastal forecasts text file directory) (Offshore forecasts by zone directory) get marine4.txt get marine5.txt (Atlantic coastal forecasts by zone directory) (Pacific coastal forecasts by zone directory) get marine6.txt get marine7.txt (Gulf of Mexico coastal forecasts by zone dir) get marine8.txt (Great Lakes coastal forecasts by zone directory) get marine9.txt (Alaska coastal forecasts by zone directory) get marine10.txt (Hawaii&Trust coastal forecasts by zone directory) qet uk.txt (UK marine forecasts from Bracknell directory) (Canadian marine text forecast directory) qet canada.txt (Buoy and C-MAN data directory) get buoydata.txt get robots.txt (Marine forecasts via e-mail systems) 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 Body: open iwin.nws.noaa.gov cd data cd text cd FZNT01 get KWBC.TXT quit or Send an e-mail to: ftpmail@weather.noaa.gov Subject Line: Put anything you like Body: 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/

A free service which is similar in concept to FTPMAIL and also allows retrieval of NWS marine GRIB files, simple webpages, and products to be retrieved on a scheduled, recurring basis may be found at: www.saildocs.com or send a blank email to: info@saildocs.com

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.

Author: Timothy Rulon, Marine and Coastal Weather Services Branch W/OS21
National Weather Service
Last Modified April 01, 2004
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 the given job delete jobid (jobid is received from server) open [site [user [pass]]] Site to ftp to. Default is: default\_site anonymous reply-to-address. >>If there was an open then it can be followed by up to 100 of the >>following commands Change directory. cd pathname
cd cd /	Move up 1 directory. 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 btoa	These are mutually exclusive options for converting a binary file before emailing. (Default is uuencode.)
force uuencode force btoa	Force all files or directory listings to 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 uuen	code 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 mode ascii	Change the mode selected for the get command. Defaults to binary.
quit	End of input - ignore any following lines.

Author: Timothy Rulon, Office of Meteorology, National Weather Service Last Modified August 01, 2003 Document URL: http://weather.noaa.gov/pub/fax/ftpcmd.txt ftp://weather.noaa.gov/fax/ftpcmd.txt

## Suggested TIFF Viewers

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

Commercial Viewers for DOS/Windows 3.1 HyperFax.111 by Hypersoft (603) 356-0210 Viewdirector by TMS, Inc. (800) 944-7654 Imagehandler by LeadTools (800) 637-4699 Keyview by FTP Software (800) 242-4FTP Snowview Platinum by Snowbound Software (617) 630-9495 Shareware viewers for DOS/Windows 3.1 Paint Shop Pro 3.0 by Jasc, Inc. (612) 930-9171 Graphic Workshop v1.1p VIDVUE v1.1 by L. Gozum QuickView v1.2e (limited - can't rotate)

Shareware viewers for OS/2 PMJPEG PMView v0.9

Shareware viewer for Apple/MAC GraphicConverter 2.6

Author: Timothy Rulon, Office of Meteorology, National Weather Service Last Modified Tuesday, 14-JAN-97, 10:17:34 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. These charts may be found in directory: ftp://weather.noaa.gov/fax or http://weather.noaa.gov/pub/fax

.TIF files now also available as .gif files

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FILE
```

WIND/SEAS CHARTS

NAME

12Z	Sea State Analysis, 1	0E-95W Northern Hemisphere	PJAA99.TIF
00Z	Sea State Analysis, 4	5W-85W Northern Hemisphere	PWAA88.TIF
12Z	Sea State Analysis, 4	5W-85W Northern Hemisphere	PWAA89.TIF
	Sea State Analysis, (	Most Current)	PWAA90.TIF
24HR	Wind/Wave Chart VT00Z	Forecast 45W-85W N. Hemisphere	PWAE98.TIF
24HR	Wind/Wave Chart VT12Z	Forecast 45W-85W N. Hemisphere	PWAE99.TIF
24HR	Wind/Wave Chart Foreca	st (Most Current)	PWAE10.TIF
48HR	Wind/Wave VT00Z Foreca	st 10E-95W Northern Hemisphere	PJAI98.TIF
48HR	Wind/Wave VT12Z Foreca	st 10E-95W Northern Hemisphere	PJAI99.TIF
48HR	Wind/Wave Chart Foreca	st (Most Current)	PJAI10.TIF
48HR	Wave Period VT00Z Fore	cast 10E-95W Northern Hemisphere	PJAI88.TIF
48HR	Wave Period VT12Z Fore	cast 10E-95W Northern Hemisphere	PJAI89.TIF
48HR	Wave Period Chart Fore	cast (Most Current)	PJAI20.TIF
96HR	Wind/Wave Chart VT12Z	Forecast 10E-95W N. Hemisphere	PJAM98.TIF
96HR	Wave Period VT12Z Fore	cast 10E-95W N. Hemisphere	PJAM88.TIF

SURFACE CHARTS

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

#### UPPER AIR CHARTS

00Z 500MB Surface Chart Analysis 10E-95W Northern Hemisphere PPAA50.TIF 12Z 500MB Surface Chart Analysis 10E-95W Northern Hemisphere PPAA51.TIF 500MB Surface Chart Analysis (Most Current) PPAA10.TIF 24HR 500MB Chart VT00Z Forecast 45W-85W Northern Hemisphere PPAE50.TIF 24HR 500MB Chart VT12Z Forecast 45W-85W Northern Hemisphere PPAE51.TIF 24HR 500MB Chart Forecast (Most Current) PPAE11.TIF 36HR 500MB Chart VT00Z Forecast 10E-95W Northern Hemisphere PPAG50.TIF 36HR 500MB Chart VT12Z Forecast 10E-95W Northern Hemisphere PPAG51.TIF 36HR 500MB Chart Forecast (Most Current) PPAG11.TIF 48HR 500MB Chart VT00Z Forecast 10E-95W Northern Hemisphere PPAI50.TIF 48HR 500MB Chart VT12Z Forecast 10E-95W Northern Hemisphere PPAI51.TIF 48HR 500MB Chart Forecast (Most Current) PPAI10.TIF 96HR 500MB Chart VT12Z Forecast 10E-95W Northern Hemisphere PPAM50.TIF SATELLITE IMAGERY 00Z GOES Infrared evnt00.jpg 06Z GOES Infrared evnt06.jpg 12Z GOES Infrared evnt12.jpg 18Z GOES Infrared evnt18.jpg GOES Infrared (Most Current) evnt99.jpg ICE CHARTS Ice Chart (When Available) PIEA88.TIF (Ice chart normally not available on this server see: http://www.uscg.mil/lantarea/iip/home.html) SCHEDULE INFORMATION Radiofax Schedule Part 1 (Boston, MA) PLAZ01.TIF Radiofax Schedule Part 2 (Boston, MA) PLAZ02.TIF Radiofax Schedule (DOS Text Version) hfmarsh.txt Request for Comments PLAZ03.TIF Product Notice Bulletin PLAZ04.TIF Test Pattern PZZZ94.TIF Internet File Names (This file) rfaxatl.txt Further information see: http://www.nws.noaa.gov/om/marine/home.htm Author: Timothy Rulon, Office of Marine and Coastal Services W/OS21, National Weather Service Last Modified Jul 07, 2004 Document URL: http://weather.noaa.gov/pub/fax/rfaxatl.txt ftp://weather.noaa.gov/fax/rfaxatl.txt

## NATIONAL WEATHER SERVICE RADIOFAX PRODUCTS for the Eastern Pacific Ocean

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

Assigned frequencies 4346, 8682, 12590.5, 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- Subject l:	-mail t ine:	:	ftpmail@weather.noaa.gov Put anything you like
Body:			open cd fax get PWBE10.TIF get PWBM99.gif
			quit

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

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

#### WIND/WAVE CHARTS

FILE NAME

00Z Sea State Analysis 20N-70N, 115W-135E PJBA99.TIF @00Z Sea State Analysis 25N-60N, E OF 155W PWBA88.TIF 12Z Sea State Analysis 25N-60N, E OF 155W PWBA89.TIF Sea State Analysis 25N-60N, E OF 155W (Most Current) PWBA90.TIF 24HR Wind/Wave Forecast VT00Z 25N-60N, E of 155W PWBE98.TIF 24HR Wind/Wave Forecast VT12Z 25N-60N, E of 155W PWBE99.TIF 24HR Wind/Wave Forecast (Most Current) PWBE10.TIF 48HR Wind/Wave Forecast VT00Z 20N-70N, 115W-135E PJBI98.TIF 48HR Wind/Wave Forecast VT12Z 20N-70N, 115W-135E PJBI99.TIF 48HR Wind Wave Forecast (Most Current) PJBI10.TIF

48HR	Wave	Period/Swell	Direction	VTOOZ	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 20	)N-70N,	115W-135	5E	PJBM98.TIF
96HR	Wave	Period/Swell	Direction	VT12Z	20N-70N,	115W-135E	PJBM88.TIF

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

## TROPICAL WIND/WAVE CHARTS

0/24HR Wind/Wave Forecasts(2 Charts) VT00Z 30N-20S, E of 145WPWFA88.TIF0/24HR Wind/Wave Forecasts(2 Charts) VT06Z 30N-20S, E of 145WPWFA89.TIF0/24HR Wind/Wave Forecasts(2 Charts) VT12Z 30N-20S, E of 145WPJBA00.TIF0/24HR Wind/Wave Forecasts(2 Charts) VT18Z 30N-20S, E of 145WPJBA01.TIF0/24HR Wind/Wave Forecasts(2 Charts) VT18Z 30N-20S, E of 145WPJBA00.TIF0/24HR Wind/Wave Forecasts(2 Charts) VT18Z 30N-20S, E of 145WPJBA90.TIF48HR Wind/Wave Forecast VT00Z 30N-20S, E of 145WPWF188.TIF48HR Wave Period/Swell Direction VT12Z 30N-20S, E of 145WPJF188.TIF48/72HR Wave Period/Swell Direction VT00Z 30N-20S, E of 145WPJFK88.TIF48/72HR Wind/Wave Forecast VT12Z 30N-20S, E of 145WPJFK88.TIF900.TIFPJFK88

SURFACE CHARTS

00Z 3	Surface	Analysis	$\mathbf{NE}$	Pacific	(Part	1)	20N-70W,	115W-175W	PYBA01.TIF
00z :	Surface	Analysis	NW	Pacific	(Part	2)	20N-70W,	175W-135E	PYBA02.TIF
06Z 3	Surface	Analysis	NE	Pacific	(Part	1)	20N-70W,	115W-175W	PYBA03.TIP
06Z 3	Surface	Analysis	NW	Pacific	(Part	2)	20N-70W,	175W-135E	PYBA04.TIF
12Z 3	Surface	Analysis	NE	Pacific	(Part	1)	20N-70W,	115W-175W	PYBA05.TIF
12Z 3	Surface	Analysis	NW	Pacific	(Part	2)	20N-70W,	175W-135E	PYBA06.TIP
18Z 3	Surface	Analysis	NE	Pacific	(Part	1)	20N-70W,	115W-175W	PYBA07.TIP
18Z 3	Surface	Analysis	NW	Pacific	(Part	2)	20N-70W,	175W-135E	PYBA08.TIF
:	Surface	Analysis	, Pa	art 1 (M	ost Cu	rrer	nt)**		PYBA90.TIF
:	Surface	Analysis	, Pa	art 2 (M	ost Cu	rrer	nt)**		PYBA91.TIF
24HR	Surface	Forecast	CV 2	COOZ For	ecast	25N-	-60W, E of	E 155W	PPBE00.TIF
24HR	Surface	Forecast	- VI	12Z For	ecast	25N-	-60W, E of	E 155W	PPBE01.TIF
24HR	Surface	Forecast	: (N	lost Cur	rent)				PPBE10.TIF
48HR	Surface	Forecast	U U	COOZ 20N	-70W,	1150	7-135E		PWBI98.TIF
48HR	Surface	Forecast	CV 2	12Z 20N	-70W,	1150	7-135E		PWBI99.TIF
48HR	Surface	Forecast	: (N	lost Cur	rent)				PWBI10.TIP
96HR	Surface	Forecast	U U	T12Z 20N	-70W,	1150	7-135E		PWBM99.TIP

UPPER AIR CHARTS

00Z	500	MB	Analysis 20N	-70N 115W-135E	PPBA50.TIF
12Z	500	MB	Analysis 20N	-70N, 115W-135E	PPBA51.TIF
	500	MB	Analysis (Mo	st Current)	PPBA10.TIF
48HF	2 500	) MB	Forecast VT	00Z 20N-70N, 115W-135E	PPBI50.TIF
48HF	2 500	) MB	Forecast VT	12Z 20N-70N, 115W-135E	PPBI51.TIF
48HF	s 500	) MB	Forecast (Me	ost Current)	PPBI10.TIF
96HF	s 500	) MB	VT12Z 20N-7	ON, 115W-135E	PPBM50.TIF

### TROPICAL SURFACE CHARTS

00Z Tropical Surface Analysis 30N-20S, E of 145W PYFA96.TIF 06Z Tropical Surface Analysis 30N-20S, E of 145W PYFA97.TIF 12Z Tropical Surface Analysis 30N-20S, E of 145W PYFA98.TIF 18Z Tropical Surface Analysis 30N-20S, E of 145W PYFA99.TIF Tropical Surface Analysis Most Current PYFA90.TIF @00Z U.S./Tropical Surface Analysis (W Half) 5S-50N,55W-125W; PYEB86.TIF @06Z U.S./Tropical Surface Analysis (W Half) 5S-50N,55W-125W; PYEB87.TIF @12Z U.S./Tropical Surface Analysis (W Half) 5S-50N,55W-125W; PYEB85.TIF @18Z U.S./Tropical Surface Analysis (W Half) 5S-50N,55W-125W; PYEB88.TIF U.S./Tropical Surface Analysis (W Half) (Most Current); PYEB11.TIF @

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@24HR Tropical Surface Forecast(W Half)VT00,20S-30N,80W-145W; PYFE79.TIF
@24HR Tropical Surface Forecast(W Half)VT12,20S-30N,80W-145W; PYFE80.TIF
@24HR Tropical Surface Forecast(Most Current); PYFE10.TIF
@48HR Tropical Surface Forecast(W Half)VT12,20S-30N,80W-145W; PYFI81.TIF
@48HR Tropical Surface Forecast(W Half)VT12,20S-30N,80W-145W; PYFI82.TIF
@48HR Tropical Surface Forecast(Most Current); PYFI82.TIF
@48HR Tropical Surface Forecast(W Half)VT10,20S-30N,80W-145W; PYFI82.TIF
@72HR Tropical Surface Forecast(W Half)VT00,20S-30N,80W-145W; PYFK83.TIF
@72HR Tropical Surface Forecast(W Half)VT12,20S-30N,80W-145W; PYFK83.TIF
@72HR Tropical Surface Forecast(W Half)VT12,20S-30N,80W-145W; PYFK84.TIF
@72HR Tropical Surface Forecast (Most Current); PYFK84.TIF
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@ Not transmitted via Pt. Reyes radiofax but listed here for convenience

## TROPICAL CYCLONE CHARTS

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

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

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

SEA SURFACE TEMPERATURES

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

SATELLITE IMAGERY

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

SCHEDULE INFORMATION

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

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

Author: Tim Rulon, NWS Marine And Coastal Weather Services Branch W/OS21 Last Modified August 16, 2004 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 Pacific U.S. Coast Guard Communications Station NMG - New Orleans, Louisiana Assigned frequencies 4317.9, 8503.9 12789.9 kHz Select a carrier frequency 1.9 kHz below those listed when using a single sideband radio in the USB mode to receive these broadcasts. The latest version of marine weather charts for broadcast by the U.S. Coast Guard are available from the National Weather Service Telecommunication Gateway on this server. The listed charts are in the G4(T4) format and enveloped in TIFF for viewing. These charts may be found in directory: ftp://weather.noaa.gov/fax or http://weather.noaa.gov/pub/fax For information of how these files and other text and graphic marine forecasts may be downloaded via e-mail (FTPMAIL) see: http://weather.noaa.gov/pub/fax/ftpmail.txt .TIF files now also available as .gif files This file is intended to assist mariners using the FTPMAIL system which is used to obtain National Weather Service products via e-mail. The following is an example in the use of the FTPMAIL system. PAY ATTENTION TO CAPITALIZATION: Example using FTPMAIL: Send an e-mail to: ftpmail@weather.noaa.gov Subject line: Put anything you like Body: open cd fax get PWEE11.TIF get PYEA11.gif quit The "help" file contains a more detailed description of the FTPMAIL system and available products. To obtain a copy of the FTPMAIL "help file". Send an e-mail to: ftpmail@weather.noaa.gov Subject Line: Put anything you like Body: help FILE WIND/WAVE CHARTS NAME 00Z Sea State Analysis, ON-31N, 35W-100W; PJEA88.TIF 12Z Sea State Analysis, ON-31N, 35W-100W; PJEA90.TIF Sea State Analysis (Most Current); PJEA11.TIF 24HR Wind/Wave Forecast VT00, 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 VT12, 0N-31N, 35W-100W; PJEI88.TIF

48HR Wave Period/Swell Direction Forecast (Most Current); PJEI11 72HP Wind/Wave Forecast VT00 0N-31N 35W-100W: DJEK88	
72HP Wind/Wave Forecast VT00 0N-31N 35W-100W: DIFK88	TIF
/ZIIK WIIIG/WAVE FOIECast VIOO, ON SIN, SSW 100W/	TIF
72HR Wind/Wave Forecast VT12, ON-31N, 35W-100W; PJEK89	TIF
72HR Wind/Wave Forecast (Most Current); PJEK11	TIF
72HR Wave Period/Swell Dir Forecast VT00, ON-31N, 35W-100W; PKEK88	TIF

### SURFACE CHARTS

00Z U.S./Tropical Surface Analysis (W Half) 5S-50N,55W-125W; PYEB86.TIF 06Z U.S./Tropical Surface Analysis (W Half) 5S-50N,55W-125W; PYEB87.TIF 12Z U.S./Tropical Surface Analysis (W Half) 5S-50N,55W-125W; PYEB85.TIF 18Z U.S./Tropical Surface Analysis (W Half) 5S-50N,55W-125W; PYEB88.TIF PYEB11.TIF U.S./Tropical Surface Analysis (W Half) (Most Current); 00Z Tropical Surface Analysis (E Half) 5S-50N, 0W-70W; PYEA86.TIF 06Z Tropical Surface Analysis (E Half) 5S-50N, 0W-70W; PYEA87.TIF 12Z Tropical Surface Analysis (E Half) 5S-50N, 0W-70W; PYEA85.TIF 18Z Tropical Surface Analysis (E Half) 5S-50N, OW-70W; PYEA88.TIF Tropical Surface Analysis (E Half) (Most Current); PYEA11.TIF @24HR Tropical Surface Forecast(W Half)VT00,20S-30N,80W-145W; PYFE79.TIF @24HR Tropical Surface Forecast(W Half)VT12,20S-30N,80W-145W; PYFE80.TIF @24HR Tropical Surface Forecast(Most Current); PYFE10.TIF @48HR Tropical Surface Forecast(W Half)VT00,20S-30N,80W-145W; PYFI81.TIF @48HR Tropical Surface Forecast(W Half)VT12,20S-30N,80W-145W; PYFI82.TIF @48HR Tropical Surface Forecast(Most Current); PYFI10.TIF @72HR Tropical Surface Forecast(W Half)VT00,20S-30N,80W-145W; PYFK83.TIF @72HR Tropical Surface Forecast(W Half)VT12,20S-30N,80W-145W; PYFK84.TIF @72HR Tropical Surface Forecast (Most Current); PYFK10.TIF 24HR Tropical Surface Forecast(E Half)VT00,00N-31N, 35W-100W; PYEE79.TIF 24HR Tropical Surface Forecast(E Half)VT12,00N-31N, 35W-100W; PYEE80.TIF Tropical Surface Forecast(Most Current); PYEE10.TIF 48HR Tropical Surface Forecast(E Half)VT00,00N-31N, 35W-100W; PYEI81.TIF 48HR Tropical Surface Forecast(E Half)VT12,00N-31N, 35W-100W; PYEI82.TIF Tropical Surface Forecast(Most Current); PYEI10.TIF 72HR Tropical Surface Forecast(E Half)VT00,00N-31N, 35W-100W; PYEK83.TIF 72HR Tropical Surface Forecast(E Half)VT12,00N-31N, 35W-100W; PYEK84.TIF Tropical Surface Forecast(Most Current); PYEK10.TIF

@ Not transmitted via New Orleans radiofax but listed here for convenience

## TROPICAL CYCLONE CHARTS

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

## HIGH SEAS FORECASTS

04Z High Seas Forecast 7N-31N, 35W-98W, In English;PLEA86.TIF10Z High Seas Forecast 7N-31N, 35W-98W, In English;PLEA87.TIF16Z High Seas Forecast 7N-31N, 35W-98W, In English;PLEA89.TIF22Z High Seas Forecast 7N-31N, 35W-98W, In English;PLEA88.TIFHigh Seas Forecast (Most Current);PLEA10.TIF

## SATELLITE IMAGERY

0645Z	GOES	IR	Satellite	Image,	12S-44N,	28W-112W;	evst06.jpg
1145z	GOES	IR	Satellite	Image,	12S-44N,	28W-112W;	evst12.jpg
1745z	GOES	IR	Satellite	Image,	12S-44N,	28W-112W;	evst18.jpg

2345Z	GOES	IR	Satellite	Image,	12S-44N,	28W-112W;	evst00.jp	g
	GOES	IR	Satellite	Image	(Most Curr	rent);	evst99.jp	g

SCHEDULE INFORMATION

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

 \* Tropical Cyclone Danger Area chart replaced by High Wind/Wave Warning chart Dec 01 - May 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 June 10, 2003 Document URL: http://weather.noaa.gov/pub/fax/rfaxmex.txt

## NATIONAL WEATHER SERVICE RADIOFAX PRODUCTS for Alaska and the North 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. These charts may be found in directories:

ftp://weather.noaa.gov/fax
or
ftp://inetsrv.arh.noaa.gov/pub/marfax/ (for files indicated by #)

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

PAY ATTENTION TO CAPITALIZATION:

Example using FTPMAIL:

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

00Z Sea State Analysis 20N-70N, 115W-135E

```
24HR Wind/Wave Forecast VT00Z 40N-70N, 115W-170E
                                                                      PJBE88.TIF
                                                                    PJBE89.TIF
24HR Wind/Wave Forecast VT12Z 40N-70N, 115W-170E
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-135EPJBI88.TIF48HR Wave Period/Swell Direction VT12Z 20N-70N, 115W-135EPJBI89.TIF
96HR Wind/Wave Forecast VT12Z 20N-70N, 115W-135E
96HR Wave Period/Swall Diversion
48HR Wave Period/Swell Direction (Most Current)
                                                                      PJBI20.TIF
                                                                    PJBM98.TIF
96HR Wave Period/Swell Direction VT12Z 20N-70N, 115W-135E PJBM88.TIF
```

## SURFACE CHARTS

00Z 3	Surface <i>A</i>	Analysi	s 40N-70N	I, 125V	V-150E		S	fcmap00.gif#	ŧ
06Z 3	Surface A	Analysi	s 40N-70N	I, 125V	<i>I</i> -150E		s	fcmap06.gif#	ŧ
12Z :	Surface A	Analysi	s 40N-70N	I, 125V	<i>I</i> -150E		s	fcmap12.gif#	ŧ
18Z 3	Surface A	Analysi	s 40N-70N	I, 125V	<i>I</i> -150E		s	fcmap18.gif#	ŧ
:	Surface A	Analysi	.s (Most C	lurrent	.)			PYPA00.TIF	
	(Covers 2	larger	area than	on-ai	r broadca	ast)			
24HR	Surface	Chart	Forecast	VT00Z	40N-70N,	115W-170E		PYBE00.TIF	
24HR	Surface	Chart	Forecast	VT12Z	40N-70N,	115W-170E		PYBE01.TIF	
24HR	Surface	Chart	Forecast	(Most	Current)			PYBE10.TIF	
48 HR	Surface	Chart	Forecast	VT00Z	20N-70N	115W-135E		PWBI99.TIF	
48 HR	Surface	Chart	Forecast	VT12Z	20N-70N	115W-135E		PWBI98.TIF	
48 HR	Surface	Chart	Forecast	(Most	Current)			PWBI10.TIF	
96HR	Surface	Chart	Forecast	VT12Z				PWBM99.TIF	

### UPPER AIR CHARTS

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

SEA SURFACE TEMPERATURES

Sea	Surface	Temperature	Analysis	40N-60N,125W -	160E	sst.gif#

SATELLITE IMAGERY

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

ICE CHARTS

Sea Ice Analysis	ICE.GIF
5 Day Sea Ice Forecast	ICEF.GIF
Cook Inlet Sea Ice Analysis	COOKICE.GIF

AK Coastal Forecast Tables

## SCHEDULE INFORMATION and MISCELLANEOUS

Radiofax Schedule Kodiak, AK;	sched.gif#
Radiofax Schedule (DOS Text Version)	hfak.txt
Test Pattern;	xxxxxx.xxx
Radiofacsimile Symbols and Contractions	symbol.gif#
Internet File Names; (This file)	rfaxak.txt

xxxxxx.xxx = Currently unavailable

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 Jan 22, 2004
Document URL: http://weather.noaa.gov/pub/fax/rfaxak.txt
ftp://weather.noaa.gov/fax/rfaxak.txt

## NATIONAL WEATHER SERVICE RADIOFAX PRODUCTS for the Central Pacific

NAVY Communications Station KVM-70 - Honolulu, Hawaii

Assigned frequencies 9982.5, 11090, 16135 and 23331.5 kHz

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

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

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:

			C. 17
Send an	e-maı⊥	to:	<pre>itpmail@weather.noaa.gov</pre>
Subject	line:		Put anything you like
Body:			open
			cd fax
			get PJBA90.TIF
			get QDEQ99.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

0/24HR Wind/Wave Forecasts(2 Charts) VT00Z 30N-20S, 145W-80WPWFA88.TIF0/24HR Wind/Wave Forecasts(2 Charts) VT06Z 30N-20S, 145W-80WPWFA89.TIF0/24HR Wind/Wave Forecasts(2 Charts) VT12Z 30N-20S, 145W-80WPJBA00.TIF0/24HR Wind/Wave Forecasts(2 Charts) VT18Z 30N-20S, 145W-80WPJBA01.TIF0/24HR Wind/Wave Forecasts(2 Charts) VT18Z 30N-20S, 145W-80WPJBA01.TIF0/24HR Wind/Wave Forecasts(2 Charts) VT18Z 30N-20S, 145W-80WPJBA90.TIF24HR Wind/Wave Forecast VT00Z 60N-35S, 110W-130E;QWB199.TIF48HR Winds/Wave Forecast VT00Z 60N-35S, 110W-130E;QWB299.TIF48HR Tropical Wind/Wave Forecast VT00Z 30N-20S, 145W-80W;PJF188.TIF48HR Tropical Wave Period/Swell Dir VT12Z 30N-20S, 145W-80W;PJF188.TIF48/72HR Tropical Wave Period/Swell Dir VT00Z 30N-20S, 145W-80W;PJF188.TIF

48/72HR Tropical Wind/Wave Forecast VT12Z 30N-20S, 145W-80W; PWFI89.TIF

SURFACE CHARTS

00Z Pacific Streamline Analysis 30N-30S, 110W-130E; 06Z Pacific Streamline Analysis 30N-30S, 110W-130E; 12Z Pacific Streamline Analysis 30N-30S, 110W-130E; xxxxxx.TIF xxxxxx.TIF xxxxxx.TIF 18Z Pacific Streamline Analysis 30N-30S, 110W-130E; xxxxxx.TIF xxxxxx.TIF Pacific Streamline Analysis (Most Current); 00Z North Pacific Surface Pressure Analysis 50N-EQ, 110W-130E; xxxxx.TIF 06Z North Pacific Surface Pressure Analysis 50N-EQ, 110W-130E; xxxxxx.TIF 12Z North Pacific Surface Pressure Analysis 50N-EQ, 110W-130E; xxxxxx.TIF 18Z North Pacific Surface Pressure Analysis 50N-EQ, 110W-130E; xxxxxx.TIF North Pacific Surface Pressure Analysis (Most Current); xxxxxx.TIF Tropical Surface Analysis 50N-30S, 100W-120E; xxxxxx.TIF Tropical Surface Analysis 50N-30S, 100W-120E; xxxxxx.TIF North Pacific Surface Pressure Analysis (Nose Carlow 00Z Tropical Surface Analysis 50N-30S, 100W-120E; 06Z Tropical Surface Analysis 50N-30S, 100W-120E; 12Z Tropical Surface Analysis 50N-30S, 100W-120E; 18Z Tropical Surface Analysis 50N-30S, 100W-120E; Tropical Surface Analysis (Most Current) xxxxxx.TIF xxxxxx.TIF OYFA99.TIF 00Z Significant Cloud Features 50N-30S, 110W-160E; 12Z Significant Cloud Features 50N-30S, 110W-160E; xxxxxx.TIF xxxxxx.TIF 24HR Wind/Stream Forecast VT00Z 50N-30S, 100W-120E;XXXXX.TIF24HR Tropical Surface Forecast VT00Z 50N-30S, 100W-120E;OWFI99.TTF 24HR Tropical Surface Forecast(W Half)VT00,20S-30N,80W-145W; PYFE79.TIF 24HR Tropical Surface Forecast(W Half)VT12,20S-30N,80W-145W; PYFE80.TIF 24HR Tropical Surface Forecast(Most Current); PYFE10.TIF 48HR Wind/Stream Forecast VT00Z 50N-30S, 100W-120E; QWFQ99.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); ODEO99.TIF 48HR Tropical Surface Forecast(W Half)VT00,20S-30N,80W-145W; PYFI81.TIF 48HR Tropical Surface Forecast(W Half)VT12,20S-30N,80W-145W; PYFI82.TIF 48HR Tropical Surface Forecast(Most Current); PYFI10.TIF 72HR Tropical Surface Forecast(W Half)VT00,20S-30N,80W-145W; PYFK83.TIF 72HR Tropical Surface Forecast(W Half)VT12,20S-30N,80W-145W; PYFK84.TIF 72HR Tropical Surface Forecast (Most Current); PYFK10.TIF

UPPER AIR CHARTS

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

@ Not transmitted via Honolulu radiofax but listed here for convenience

## TROPICAL CYCLONE CHARTS

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

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

## SATELLITE IMAGERY

00Z Eastern Pacific Satellite Image (IR)55N-40S, 105W-155E; xxxxxx.jpg

06Z Eastern Pacific Satellite Image (IR)55N-40S, 105W-155E;xxxxxx.jpg12Z Eastern Pacific Satellite Image (IR)55N-40S, 105W-155E;xxxxxx.jpg18Z Eastern Pacific Satellite Image (IR)55N-40S, 105W-155E;xxxxxx.jpgEastern Pacific Satellite Image (Most Current);xxxxxx.jpg 00Z Southern Pacific Satellite Image (IR) 05N-40S, 130W-165E; xxxxxx.jpg 06Z Southern Pacific Satellite Image (IR) 05N-40S, 130W-165E; xxxxxx.jpg 12Z Southern Pacific Satellite Image (IR) 05N-40S, 130W-165E; xxxxxx.jpg 18Z Southern Pacific Satellite Image (IR) 05N-40S, 130W-165E; xxxxxx.jpg Southern Pacific Satellite Image (Most Current); xxxxxx.jpg SEA SURFACE TEMPERATURE CHARTS Pacific Sea Surface Temperature (VT Tuesday and Thursday); xxxxxx.TIF SCHEDULE INFORMATION Radiofax Schedule (Honolulu, HI); xxxxxx.TIF Radiofax Schedule (DOS Text Version) hfhi.txt Test/Map Symbols/General Notice; xxxxxxx.TIF

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

Internet File Names; (This file)

Author: Timothy Rulon, NWS Marine and Coastal Weather Services Branch W/OS21
National Weather Service
Last Modified December 11, 2003
Document URL: http://weather.noaa.gov/pub/fax/rfaxhi.txt
ftp://weather.noaa.gov/fax/rfaxhi.txt

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: Subject Line: Body:	<pre>ftpmail@weather.noaa.gov Put anything you like open cd data cd forecasts cd marine cd high_seas get north_pacific.txt get north_atlantic.txt quit</pre>
--	--

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

t
xt
xt
xt

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

Example:	
Send an e-mail to: Subject Line:	ftpmail@weather.noaa.gov 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 Atlanticagnt40.kwnm.mim.atn.txtNortheast Pacificagpn40.kwnm.mim.pac.txtGulf, Caribbean Sea & SW N. Atlanticagxx40.knhc.mim.ats.txt

## OFFSHORE FORECASTS

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

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

Example: Send an e-mail to: Subject Line: Body:

ftpmail@weather.noaa.gov Put anything you like 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

FILE NAME

fznt23.kwnm.off.n01.txt NAVTEX Boston, MA NAVTEX Chesapeake, VA fznt24.kwnm.off.n02.txt NAVTEX Savannah, GA fznt25.kwnm.off.n03.txt NAVTEX Miami, FL fznt25.knhc.off.n04.txt NAVTEX San Juan, PR fznt26.knhc.off.n05.txt NAVTEX New Orleans, LA fznt27.knhc.off.n06.txt fzpn24.kwnm.off.n09.txt NAVTEX Astoria, OR 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 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 fzus61.kbuf.glf.sl.txt St. Lawrence fzus61.kbuf.glf.lo.txt Lake Ontario Lake Erie fzus61.kcle.glf.le.txt Lake St. Clair fzus63.kdtx.glf.sc.txt Lake Huron fzus63.kdtx.glf.lh.txt Lake Michican 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 Jul 15, 2004 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!

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

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

ATLANTIC HURRICANE PRODUCTS

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

PRODUCT DESCRIPTION

FILE NAME

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

Hurricane Probabilities (Storm #3) /storm\_3/strike\_probability.txt Hurricane Probabilities (Storm #4) /storm\_4/strike\_probability.txt Hurricane Probabilities (Storm #5) /storm\_5/strike\_probability.txt RECON Plan TBD Atlantic Tropical Weather Outlook normally issued 0300z, 0900z, 1500z and 2100z during hurricane season, June 1 - November 30. Remaining products issued when active systems exist. May be issued at 3-hourly intervals and other unscheduled times as system approaches landfall. EASTERN PACIFIC HURRICANE PRODUCTS These files may be found in directory: ftp://weather.noaa.gov/data/hurricane\_products/eastern\_pacific PRODUCT DESCRIPTION FILE NAME Tropical WX Outlook /weather/outlook.txt Tropical WX Discussion /weather/discussion.txt Tropical WX Summary /weather/summary.txt Tropical WX Disturbance Stmt /weather/advisory.txt Tropical Cyclone Updates /weather/update.txt Tropical Cyclone Positions TBD Tropical Cyclone Discussion (Storm #1) /storm\_1/discussion.txt Tropical Cyclone Discussion (Storm #2) /storm\_2/discussion.txt Tropical Cyclone Discussion (Storm #3) /storm 3/discussion.txt Tropical Cyclone Discussion (Storm #4) /storm\_4/discussion.txt Tropical Cyclone Discussion (Storm #5) /storm\_5/discussion.txt Public Advisory (Storm #1) /storm\_1/advisory.txt Public Advisory (Storm #2) /storm\_2/advisory.txt Public Advisory (Storm #3) /storm\_3/advisory.txt Public Advisory (Storm #4) /storm\_4/advisory.txt Public Advisory (Storm #5) /storm 5/advisory.txt Tropical Depression Forecast (Storm #1) /storm\_1/technical\_advisory.txt Tropical Depression Forecast (Storm #2) /storm\_2/technical\_advisory.txt Tropical Depression Forecast (Storm #3) /storm\_3/technical\_advisory.txt Tropical Depression Forecast (Storm #4) /storm\_4/technical\_advisory.txt Tropical Depression Forecast (Storm #5) /storm\_5/technical\_advisory.txt RECON Plan TBD

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

## CENTRAL PACIFIC HURRICANE PRODUCTS

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

#### PRODUCT DESCRIPTION

FILE NAME

Tropical WX Outlook /weather/outlook.txt Tropical WX Discussion (discontinued) Tropical WX Summary /weather/summary.txt Tropical WX Disturbance Stmt /weather/advisory.txt Tropical Cyclone Updates /weather/update.txt Tropical Cyclone Discussion (Storm #1) /storm\_1/discussion.txt Tropical Cyclone Discussion (Storm #2) /storm\_2/discussion.txt Tropical Cyclone Discussion (Storm #3) /storm 3/discussion.txt

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

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

## WESTERN PACIFIC HURRICANE PRODUCTS

These files may be found in directory: http://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 /wtpn24.pgtw..txt NW Pacific Tropical Cyclone Formation Alert Storm #4 NW Pacific Tropical Cyclone Formation Alert Storm #5 /wtpn25.pgtw..txt SW Pacific Tropical Cyclone Formation Alert Storm #1 /wtps21.pqtw..txt SW Pacific Tropical Cyclone Formation Alert Storm #2 /wtps22.pqtw..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.pgtw..txt NW Pacific Tropical Cyclone Warning Storm #5 /wtpn35.pgtw..txt SW Pacific Tropical Cyclone Warning Storm #1 /wtpS31.pgtw..txt SW Pacific Tropical Cyclone Warning Storm #2 /wtpS32.pgtw..txt SW Pacific Tropical Cyclone Warning Storm #3 /wtpS33.pgtw..txt SW Pacific Tropical Cyclone Warning Storm #4 /wtpS34.pgtw..txt SW Pacific Tropical Cyclone Warning Storm #5 /wtpS35.pgtw..txt

Author: Timothy Rulon Marine and Coastal Services Branch, OS21 National Weather Service Last Modified Friday May 28, 2004 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: Subject Line: Body:	ftpmail@weather.noaa.gov Put anything you like open cd data cd raw	
Doug		cd data
		cu uata
		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:	ftpn	nail@weath	ner.r	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	fzus51.kgyx.cwf.gyx.txt
Taunton, MA	fzus51.kbox.cwf.box.txt
New York, NY	fzus51.kokx.cwf.okx.txt
Philadelphia, PA	fzus51.kphi.cwf.phi.txt
Washington, DC	fzus51.klwx.cwf.lwx.txt
Wakefield, VA	fzus51.kakq.cwf.akq.txt
Newport/Morehead City, NC	fzus52.kmhx.cwf.mhx.txt
Wilmington, NC	fzus52.kilm.cwf.ilm.txt
Charleston, SC	fzus52.kchs.cwf.chs.txt
Jacksonville, FL	fzus52.kjax.cwf.jax.txt
Melbourne, FL	fzus52.kmlb.cwf.mlb.txt
Miami, FL	fzus52.kmfl.cwf.mfl.txt
Key West, FL	fzus52.keyw.cwf.eyw.txt
San Juan, PR	fzca52.tjsj.cwf.sju.txt
San Juan, PR (Spanish)	fzca52.tjsj.cwf.spn.txt
Tampa, FL	fzus52.ktbw.cwf.tbw.txt
Tallahasee, FL	fzus52.ktae.cwf.tae.txt
Mobile, AL	fzus54.kmob.cwf.mob.txt
New Orleans, LA	fzus54.klix.cwf.lix.txt
Lake Charles, LA	fzus54.klch.cwf.lch.txt
Houston/Galveston, TX	fzus54.khgx.cwf.hgx.txt
Corpus Christi, TX	fzus54.kcrp.cwf.crp.txt
Brownsville, TX	fzus54.kbro.cwf.bro.txt
Seattle, WA	fzus56.ksew.cwf.sew.txt
Portland, OR	fzus56.kpqr.cwf.pqr.txt
Medford, OR	fzus56.kmfr.cwf.mfr.txt
Eureka, CA	fzus56.keka.cwf.eka.txt

fzus56.kmtr.cwf.mtr.txt San Francisco, CA fzus56.klox.cwf.lox.txt Los Angeles, CA San Diego, CA fzus56.ksgx.cwf.sgx.txt Hawaii fzhw50.phfo.cwf.hfo.txt Marianas (Guam) fzmy50.pqum.cwf.my.txt fzpq50.pgum.cwf.pq.txt Micronesia fzzs50.nstu.cwf.ppg.txt Samoa Buffalo,NY fzus51.kbuf.nsh.buf.txt Cleveland, OH fzus51.kcle.nsh.cle.txt Detroit/Pontiac,MI fzus53.kdtx.nsh.dtx.txt Gaylord, MI fzus53.kapx.nsh.apx.txt Grand Rapids, MI fzus53.kgrr.nsh.grr.txt Chicago, IL fzus53.klot.nsh.lot.txt fzus53.kmkx.nsh.mkx.txt Milwaukee/Sullivan,WI Green Bay,WI fzus53.kgrb.nsh.grb.txt fzus53.kmqt.nsh.mqt.txt Marquette,MI 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 Jul 15, 2004
Document URL: http://weather.noaa.gov/pub/fax/marine3.txt
ftp://weather.noaa.gov/fax/marine3.txt

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 to retrieve the latest NWS buoy and C-MAN observations. NOTE CAPITALIZATION!

For the latest operational status of buoy and C-MAN stations see: http://www.ndbc.noaa.gov/wstat.shtml

For questions on buoy or C-MAN observations contact: webmaster.ndbc@noaa.gov

Example:

Send an	e-mail	to:	ftpmail@weather.noaa.gov
Subject	Line:		Put anything you like
Body:			open www.ndbc.noaa.gov
			cd data
			cd latest_obs
			get 42007.txt
			get gdil1.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

BUOY and C-MAN OBSERVATION ID's

These files may be found in directory: ftp://www.ndbc.noaa.gov/data/latest\_obs/ e.g. ftp://www.ndbc.noaa.gov/data/latest\_obs/41001.txt

PLATFORM	HULL/		LOCATION	LATITUDE	LONGITUDE
ID	PAYLOA	D			
41001*	6N03	D	E. HATTERAS	34.68N	72.66W
41002*	6N26	V	S. HATTERAS	32.36N	75.46W
41004*	3D27	V	EDISTO	32.50N	79.10W
41008*	3D44	А	GRAYS REEF	31.40N	80.87W
41009	6N46	А	CANAVERAL	28.50N	80.18W
41010	6N19	V	CANAVERAL EAST	28.91N	78.55W
41012	3D48	А	ST. AUGUSTINE,	30.00N	80.50W
41013*	3D17	D	FRYING PAN SHOALS	33.48N	77.58W
41025*	3D33	D	DIAMOND SHOALS	35.15N	75.29W
42001*	10D10	М	MID GULF	25.86N	89.67W
42002*	10D08	М	WESTERN GULF	25.17N	94.42W
42003*	10D11	М	EAST GULF	26.01N	85.91W
42007*	3D14	D	BILOXI	30.09N	88.77W
42019*	3D61	D	LANEILLE	27.92N	95.36W
42020*	3D40	D	EILEEN	26.95N	96.70W

42035*	3D47	D	GALVESTON	29.25N	94.41W
42036*	3D12	D	WEST TAMPA	28.51N	84.51W
42038	3D35	A	NORTH MID GULF	27.42N	92.58W
42039	3D54	D	PENSACOLA S.	28.80N	86.06W
42040	3D60	D	MOBILE SOUTH	29.21N	88.20W
42041	3D24	М	NORTH MID GULF	27.50N	90.46W
44004*	6N07	D	HOTEL	38.50N	70.47W
44005*	6N23	D	GULF OF MAINE	43.19N	69.18W
44007*	3D46	V	PORTLAND	43.53N	70.14W
44008*	3D05	V	NANTUCKET	40.50N	69.43W
44009*	3D08	V	DELAWARE BAY	38.46N	74.70W
44011*	6N11	D	GEORGES BANK	41.06N	66.58W
44013*	3DV04	D	BOSTON	42.35N	70.69W
44014	3D18	D	VIRGINIA BEACH	36.58N	74.84W
44017*	3D49	А	MONTAUK POINT	40.70N	72.00W
44018*	3D51	А	SE CAPE COD	41.26N	69.30W
44025*	3D65	D	LONG ISLAND	40.25N	73.17W
44027*	3D29	А	JONESPORT	44.27N	67.31W
45001*	3D23	D	MID SUPERIOR	48.07N	87.78W
45002*	3D37	V	NORTH MICHIGAN	45.33N	86.42W
45003*	3DV03	V	NORTH HURON	45.35N	82.84W
45004*	3D38	V	EAST SUPERIOR	47.57N	86.55W
45005*	3D63	D.	WEST ERIE	41.68N	82.40W
45006*	3DV05	V	WEST SUPERIOR	47.32N	89.87W
45007*	3D35	, П	SOUTH MICHIGAN	42 67N	87 02W
45008*	3D33	V	SOUTH HURON	44.28N	82.42W
45012*	3DV02	v	LAKE ONTARIO	43.62N	77.41W
46001*	6N21	П	GULE OF ALASKA	56 30N	148 17W
46002*	6N16	D	WEST OREGON	42 52N	130 32W
46005*	6N01	ם	W ASTORIA	46 05N	131 02W
46006*	6N33	V	SW ASTORIA	40 80N	137 48W
46011*	3042	, П	SANTA MARIA	34 88N	120 87W
46012*	3052	D	HALF MOON BAY	37 36N	122 88W
46013	3D32 3D15	V	BODECA BAY	38 23N	122.00W
46014*	2021	v م	DUDECA DAI DT ARENA	39 22M	123.52W
46015*	3051	ם ח	DORT ORFORD	42 73N	123.97W
46022*	3036	V	FFL RIVER	40.72N	124 52W
46022	10סנענ 10ח	v م	DT ARCHIELLO	34 70N	121.52W
46025*	20201 2059	V	SANTA MONICA	33 75N	119 08W
46026*	2020	V VZ	SAN FRANCISCO	37 76N	122 83W
46027*	2020	V VZ	ST GEORGES	41 85N	122.05W
46028*	2002	л П	SAN MARTIN	35 74N	121.90W
46020*	3062	ם ח	COL RIVER BAR	46 12N	124.00W
46035*	בסםכ 1 2חח 2	M	BERING SEA	57 06N	177 59W
46041*	3002		CADE FLIZABETH	47 34N	124 75W
46042*	3005	ם ח	MONTEREV BAV	36 75N	122.75W
46047*	3053	V	TANNED BANK	30.73N	110 53W
46050*	3055	V VZ	STONEWALL BANK	44 61N	124 50W
46053*	3058	v N	F GANTA BARK	34 24N	119 85W
46054	טכעכ 1012	Л	W GANTA BARB	34 27M	120 44W
46059*	LUDIZ 6N13	ם ח	CALLEOPNIA	37 99M	120.44W
46060*	3061	D W	WEST ODCA DAV	57.55N	1/6 92W
46061*	5D04 6N22	V 17	SENI DOCKS (S	60.30N	146.03W
46062		v 7	DT CAN LUIC	25 10N	121 01W
40002	5DV01	A D	PI SAN LUIS	24 29M	120.67W
46066*	CMJE		LI'CONCULITON	57.20M	155 001
16060*	3D30 C7NTO	ل م		22 6 ENT	120 2017
16072*	SM24	л D	COLUMNIA KUSA		170.20W
46075*	6M27	ת	CUIT ALLUIIAN	53 02M	160 01m
46079*	CM10	ת	ALEATEOGC DAME	56 0EM	150.01W
16020*	6MJ0		WIND GGUAINGUA		150 0177
10000" 16001 *		ע	KENNEDI ENTKAN	00.00N	1/0 00TW
40001 ^	2D4T	D	MEDIEKN LKINCE	N81.00	140.2UW

CAPE SUCAL FAIRWEATHER 46082\* 6N42DCAPE SUCKLING59.61N143.67W6N36DFAIRWEATHER58.25N138.00W6N41DSITKA SOUND56.59N136.16W3D68ASAN CLEMENTE B32.50N118.00W6N18VNW. HAWAII23.43N162.21W6N27VSW. HAWAII17.15N157.79W6N28VW. HAWAII19.16N160.74W6N38ASE. HAWAII17.52N152.48W3D13DCHRISTMAS ISL.0.00N153.91W 6N42 D 59.61N 143.67W 46083\* 46084\* 46086\* 51001\* 51002\* 51003\* 51004\* 51028 Total Base Funded Buoys:74 Total Other Buoys :12 Total Moored Buoys :86 \*Base funded station of National Weather Service (NWS); however, all stations report data to NWS. NDBC MOORED BUOY STATION LEGEND: Hull Type-Anemometer Height 12D - 12 meter discus 10 m 10D - 10 meter discus 10 m 6N - 6 meter NOMAD 5 m 3D/3DV meter discus 5 m LNS - 12 meter discus 8.5 m Payload Types A - ARES D - DACT M - MARS V - VEEP PLATFORM PAYLOAD LOCATION LATITUDE LONGITUDE 

 ID

 aban6
 V
 ALEXANDRIA BAY NY
 44.33N
 75.93W

 alsn6\*
 A
 AMBROSE LIGHT NY
 40.45N
 73.80W

 amaa2\*
 A
 EAST AMATULI ISLAND
 58.92N
 151.95W

 auga2\*
 M
 AUGUSTINE ISLAND AK
 59.38N
 153.35W

 blia2\*
 V
 BLIGH REEF LIGHT
 60.84N
 146.88W

 burl1\*
 M
 SOUTHWEST PASS LA
 28.91N
 89.43W

 buzm3\*
 M
 BUZZARDS BAY MA
 41.40N
 71.03W

 caro3\*
 M
 CAPE ARAGO OR
 43.34N
 124.38W

 cdrf1\*
 V
 CEDAR KEY FL
 29.14N
 83.03W

 chlv2\*
 D
 CHESAPEAKE LIGHT VA
 36.91N
 75.71W

 clkn7\*
 M
 CAPE LOCKOUT NC
 34.62N
 76.53W

 dbin6\*
 D
 DESTRUCTION ISLAND WA
 47.68N
 124.49W

 dbisw3\*
 D
 DEVILS ISLAND AL
 30.25N
 88.07W

 drja1\*
 V
 DAUPHIN ISLAND AL
 30.25N
 124.49W

 dryf1\*
 M
 DRIFT RIVER TERMINAL
 60.55N
 ID

lscm4	V	LAKE ST. CLAIR	42.47N	82.76W	
mdrm1*	D	MT DESERT ROCK	43.97N	68.13W	
mism1*	D	MATINICUS ROCK ME	43.78N	68.86W	
mlrf1*	V	MOLASSES REEF FL	25.01N	80.38W	
mrka2*	V	MIDDLE ROCK LIGHT	61.08N	146.66W	
nwpo3*	D	NEWPORT OR	44.61N	124.07W	
pila2*	М	PILOT ROCK AK	59.74N	149.47W	
pilm4*	V	PASSAGE ISLAND MI	48.22N	88.37W	
pota2*	V	POTATO POINT AK	61.06N	146.70W	
ptac1*	М	POINT ARENA CA	38.96N	123.74W	
ptat2*	М	PORT ARANSAS TX	27.83N	97.05W	
ptgc1*	М	POINT ARGUELLO CA	34.58N	120.65W	
roam4*	D	ROCK OF AGES	47.87N	89.31W	
sanf1*	М	SAND KEY FL	24.46N	81.88W	
sauf1*	V	ST. AUGUSTINE FL	29.86N	81.27W	
sbiol*	М	SOUTH BASS ISLAND	41.63N	82.84W	
sgnw3*	D	SHEBOYGAN WI	43.75N	87.69W	
sgof1*	М	ST. GEORGE OFFSHORE	29.41N	84.86W	
sisw1*	М	SMITH ISLAND WA	48.32N	122.84W	
smkfl*	М	SOMBRERO KEY FL	24.63N	81.11W	
spgf1*	М	SETTLEMENT PT GBI	26.70N	78.99W	
srst2*	М	SABINE TX	29.67N	94.05W	
stdm4*	D	STANNARD ROCK MI	47.18N	87.23W	
supn6	V	SUPERIOR SHOALS NY	44.47N	75.80W	
thin6	V	THOUSAND ISL. NY	44.30N	75.98W	
tplm2*	М	THOMAS POINT MD	38.90N	76.44W	
ttiw1*	D	TATOOSH ISLAND WA	48.39N	124.74W	
venf1*	М	VENICE FL	27.07N	82.45W	
wpow1*	V	WEST POINT WA	47.66N	122.44W	
Total Ba	ase Fund	led Stations: 53			
Total Of	her Sta	tions: 04			
Total St	ations	: 57			
*Base fi	inded st	ation of National Weath	er Service	(NWS);	
however	, all st	ations report data to N	WS.		
NDBC C-N	MAN STAT	ION LEGEND:			
Payload	Types				
A - ARES	5				
D - DAC	Г				
M – MARS	5				
V - VEEI	2				
For curi	rent buo	ov status see: http://ww	w ndbc noaa	gov/wstat_shtml	
I OI CUII	Leffe Duo	y beacab beet neep , , ww	w.nabe.noaa	· gov/ wbcac.bitchit	
Further	informa	tion see: http://www.nw	s.noaa.gov/	om/marine/home.htm	
Author:	Timothy	Rulon, Office of Marin	e and Coast	al Services W/OS21,	
	Nationa	l Weather Service			
	Last Mo	dified Jun 18, 2004			
	Documen	t URL: http://weather.n	oaa.gov/pub	/fax/buoydata.txt	
		ftp://weather.n	oaa.gov/fax	/buoydata.txt	

National Hurricane Center Listserver

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

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

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

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

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

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

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

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

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

Subscription addresses:

Atlantic (Public Advisories and updates, morning Outlook) mail-storm-atlan-subscribe@hogfish.nhc.noaa.gov

- Atlantic Marine (Forecast/Advisories and updates, morning Outlook) mail-storm-atlan-marine-subscribe@hogfish.nhc.noaa.gov
- Atlantic Full (All Advisories and updates, morning Outlook) mail-storm-atlan-full-subscribe@hogfish.nhc.noaa.gov
- Atlantic Spanish (Spanish-language Public Advisory, morning Outlook) mail-atlan-outlook-sp-subscribe@hogfish.nhc.noaa.gov
- Atlantic Outlooks (the rest of the Outlooks) mail-atlan-outlook-subscribe@hogfish.nhc.noaa.gov
- Atlantic Outlooks Spanish (the rest of the Outlooks in Spanish) mail-atlan-outlook-sp-subscribe@hogfish.nhc.noaa.gov
- East Pacific (Public Advisories and updates, morning Outlook) mail-storm-epac-subscribe@hogfish.nhc.noaa.gov
- East Pacific Marine (Forecast/Advisories and updates, morning Outlook) mail-storm-epac-marine-subscribe@hogfish.nhc.noaa.gov
- East Pacific Full (All Advisories and updates, morning Outlook) mail-storm-epac-full-subscribe@hogfish.nhc.noaa.gov
- East Pacific Outlooks (the rest of the Outlooks) mail-epac-outlook-subscribe@hogfish.nhc.noaa.gov

Unsubscription addresses:

#### Atlantic

mail-storm-atlan-unsubscribe@hogfish.nhc.noaa.gov

#### Atlantic Marine

mail-storm-atlan-marine-unsubscribe@hogfish.nhc.noaa.gov

## Atlantic Full

mail-storm-atlan-full-unsubscribe@hogfish.nhc.noaa.gov

## Atlantic Spanish

mail-storm-atlan-sp-unsubscribe@hogfish.nhc.noaa.gov

## Atlantic Outlooks

mail-atlan-outlook-unsubscribe@hogfish.nhc.noaa.gov

#### Atlantic Outlooks Spanish

mail-atlan-outlook-sp-unsubscribe@hogfish.nhc.noaa.gov

## East Pacific

mail-storm-epac-unsubscribe@hogfish.nhc.noaa.gov

## East Pacific Marine

mail-storm-epac-marine-unsubscribe@hogfish.nhc.noaa.gov

# East Pacific Full mail-storm-epac-full-unsubscribe@hogfish.nhc.noaa.gov

## East Pacific Outlooks mail-epac-outlook-unsubscribe@hogfish.nhc.noaa.gov

If you desire to receive hurricane advisories from the Central Pacific Hurricane Center, or other NWS forecast products only as requested, the NWS FTPMAIL server will be more appropriate for your needs. To obtain the FTPMAIL "Help" file: ftpmail@weather.noaa.gov Send an e-mail to: Subject Line: Put anything you like Body: help Information on other e-mail "robots" may be found 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 If you have access to the World Wide Web be certain to check out the following webpages. See these pages for further links. http://www.nws.noaa.gov NWS Homepage http://www.nws.noaa.gov/om/marine/home.htm NWS Marine Page A non-NWS FAQ webpage describing several public FTP-to-EMAIL and WWW-to-EMAIL servers may be found at: http://www.faqs.org/faqs/internet-services/access-via-email/ Author: Timothy Rulon National Weather Service Last Modified July 20, 2004 Document URL: http://weather.noaa.gov/pub/fax/nhclist.txt

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

University of Illinois Listserver for Marine Applications

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

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

The University of Illinois at Urbana-Champaign (UIUC) operates an e-mail Listserver of which two Lists, WX-ATLAN, and WX-TROPL are of special interest to mariners who do not have direct access to the World Wide Web but who are equipped with an e-mail system. These Lists provide an automated means to receive hurricane information via e-mail. Information on this system may be found at: http://www.lsoft.se/scripts/wl.exe?XH=LISTSERV.UIUC.EDU

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

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

This List server is not operated or maintained by the National Weather Service, please direct all questions to WX-ATLAN-request@LISTSERV.UIUC.EDU

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

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

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

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

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

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

sub wx-atlan YourFirstName YourLastName

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

signoff wx-atlan

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

!!! IMPORTANT NOTE !!!

YOU WILL ONLY RECEIVE THE TROPICAL WEATHER OUTLOOK WHEN YOU FIRST SUBSCRIBE TO WX-ATLAN. THIS MEANS YOU WILL \*NOT\* RECEIVE ANY HURRICANE WATCHES, WARNINGS, OR ADVISORIES UNLESS YOU CHANGE YOUR SUB-TOPIC PROFILE (SEE BELOW).

The available sub-topics are:

ALL = All sub-topics OUTLOOK = Brief discussions concerning development trends [ABNT20] TROPDISC = Detailed discussions concerning development trends [AXNT20] FORECAST = Storm forecasts (wind and sea height estimates) [WTNT2x] ADVISORY = Storm status reports (movement, wind speeds, etc) [WTNT3x] STRMDISC = Discussion reports concerning a specific storm [WTNT4x] POSITION = Position reports [WTNT5x] UPDATE = Storm updates (they often cites recon reports) [WTNT6x] STRIKE = Strike probabilities (landfall probabilities) [WTNT7x] ALL = All sub-topics RECON = URNT12 FOS header Vortex messages SEAFCST = High Seas Forecast [FZNT01] SUMMARY = Tropical Storm Summary Information ESPANOL = Spanish-language bulletins [WTCA4x] [ACCA62] MARINE = Products specifically of interest to maritime interests

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

SET WX-ATLAN TOPICS: STRIKE

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

SET WX-ATLAN TOPICS: STRIKE, POSITION, TROPDISC

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

SET WX-ATLAN TOPICS: +ADVISORY -TROPDISC

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

You can also use the web interface to control your subscription

once you are subscribed:

http://listserv.uiuc.edu/wa.cgi?SUBED1=wx-atlan&A=1

Please address \*ALL\* questions concerning subscriptions to chris@siu.edu.

A Web Archive of WX-ATLAN may be found at: http://listserv.uiuc.edu/archives/wx-atlan.html

\*\*\*\*WX-TROPL TROPICAL INFORMATION\*\*\*\*

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

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

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

sub wx-tropl YourFirstName YourLastName

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

signoff wx-tropl

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

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

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

SET WX-TROPL TOPICS: PACIFIC-NW

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

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

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

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

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

You can also use the web interface to control your subscription once you are subscribed: http://listserv.uiuc.edu/wa.cgi?SUBED1=wx-tropl&A=1 Please address \*ALL\* questions concerning subscriptions to chris@siu.edu. A Web Archive of WX-TROPL may be found at: http://listserv.uiuc.edu/archives/wx-tropl.html If you wish to receive National Weather Service hurricane products via e-mail only upon individual request , the NWS FTPMAIL server may be more appropriate for your needs. NWS FTPMAIL SERVER National Weather Service radiofax charts broadcast by U.S. Coast Guard from Boston, New Orleans and Pt. Reyes, California are available via e-mail. Marine text products are also available. The FTPMAIL server is intended to allow Internet access for mariners and other users who do not have direct access to the World Wide Web but who are equipped with an e-mail system. Turnaround is generally in under three hours, however, performance may vary widely and receipt cannot be guaranteed. To get started in using the NWS FTPMAIL service, follow these simple directions to obtain the FTPMAIL "help" file (8 Kbytes). Send an e-mail to: ftpmail@weather.noaa.gov Subject line: Put anything you like Body: help or available at: http://weather.noaa.gov/pub/fax/ftpmail.txt also please visit: http://www.nws.noaa.gov/om/marine/home.htm \* \* \* \* \* National Weather Service, NOAA 1325 East West Highway Silver Spring, MD 20910 Webpage Content: Tim Rulon, NWS Office of Marine and Coastal Services W/OS21 Last Modified: March 26, 2003 Document URL: http://weather.noaa.gov/pub/fax/uiuclist.txt ftp://weather.noaa.gov/fax/uiuclist.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-maıl	to:	<pre>itpmail@weather.noaa.gov</pre>
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-m	nail to:	ftpma	ail@weath	ler.n	loaa.gov
Subject lin Body:	ie:	Put a help	anything	you	like

#### National Hurricane Center Listserver

The National Weather Service's National Hurricane Center operates an e-mail listserver which is special interest to mariners who do not have direct access to the World Wide Web but who are equipped with an e-mail system. This listserver provides an automated means to receive NWS hurricane forecast products via e-mail. However, performance may vary and receipt cannot be guaranteed. This is an experimental service. Interruptions or duplications in e-mail deliveries while we test the system are to be expected. To get started in using the National Hurricane Center Listserver, follow these simple directions for more information, or see: http://www.nhc.noaa.gov/signup.shtml

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

#### NEMOC Automated Chart System

The U.S. Naval European Meteorology and Oceanography Command (NEMOC) has developed a method of weather chart/warning delivery via e-mail for forecasts of the Eastern Atlantic and Mediterranean. For questions or comments on NEMOC's products and services contact the 24x7 Command Duty Officer at cdo@nemoc.navy.mil, or call 011-34-945-82-2410. To receive the NEMOC Automated Chart System "help" file:

Send an	e-mail	to:	proc	ducts@nemo	oc.na	avy.mi	1
Subject	line:		Put	anything	you	like	
Body:			Put	anything	you	like	

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 a	an	e-mail	to:	info	@saildocs	s.con	n
Subje	ct	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/meteonet/services/navimail/navimail.htm

e-mail	to:	ftpmail@weather.noaa.g	ov
line:		Put anything you like	
		open	
		cd fax	
		get navimail.txt	
		quit	
	e-mail line:	e-mail to: line:	e-mail to: ftpmail@weather.noaa.g line: Put anything you like open cd fax get navimail.txt quit

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

#### NANUS & GPS STATUS MSGS BY EMAIL

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

#### OTHERS

A non-NWS FAQ webpage describing several FTP-to-EMAIL and WWW-to-EMAIL servers may be found at: http://www.faqs.org/faqs/internet-services/access-via-email/

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

http://www.nws.noaa.gov	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 Jul 06, 2004 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:

Rick Kenney 1-212-668-7762 e-mail: rkenney@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, Ham 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) - \$1.25<sup>1</sup>

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

#### OTHER PUBLICATIONS OF VALUE TO THE MARINER

Mariner's Weather Log Magazine - \$13.00/2 issues/yr (\$18.20 foreign)<sup>3</sup> Selected Marine Worldwide Weather Broadcasts (9/92)<sup>5</sup> Voluntary Observing Ship Program Brochure (1999) Free<sup>6</sup> NWS Observing Handbook NO.1 (4/99)<sup>6</sup> Worldwide Marine Radiofacsimile Broadcast Schedules (06/03)<sup>4</sup> NOAA Weather Radio Brochure (NOAA/PA 94070, 3/97) Free<sup>2</sup> NOAA Weather Radio Handout (NOAA/PA 94061, 3/97) Free<sup>2</sup> A Mariners Guide to Marine Weather Services - Great Lakes (NOAA/PA 98053) Free<sup>2</sup> A Mariners Guide to Marine Weather Services - Coastal, Offshore, and High Seas (NOAA/PA 98054) Free<sup>2</sup> Safe Boating Weather Tips (NOAA/PA 94058, 6/98) Free<sup>2</sup> World Meteorological Organization Publication 9 - Weather Reporting, Volume D - Information for Shipping (Broadcast Schedules)<sup>1</sup> National Ocean Service Coast Pilot, Volumes 1-9<sup>1</sup> NGA Publication 117 "Radio Navigational Aids" (2002)...Includes CD<sup>13</sup> American Practical Navigator (Bowdich) Publication 9 (2002) <sup>13</sup> Pilot Chart Atlas - 5 areas<sup>13</sup> Sailing Directions - 42 volumes<sup>13</sup> U.S. Notices to Mariners<sup>14</sup> U.S. Notices to Mariners #1, Special Notice to Mariners Paragraphs<sup>14</sup> Summary of Notice to Mariners Corrections <sup>13</sup> The Future in Marine Radio Communications - GMDSS (1998) Free<sup>9</sup> Maritime Navigational Safety Information Sources, (9/94) \$87 Maritime Radio Users Handbook (1992) \$127 The British Admiralty List of Radio Signals<sup>8</sup> Volume 1 Coast Radio Stations (2 parts) Volume 2 Radio Navigational Aids, Satellite Navigation Systems, Legal Time, Radio Time Signals & Electronic Fixing Systems

Volume 3 Maritime Safety Information Services Volume 4 Meteorological Observation Stations Volume 5 Global Maritime Distress and Safety Systems Volume 6 Pilot Services, Vessel Traffic Services & Port Operations (5 parts) Canadian Coast Guard Radio Aids to Navigation - \$18.95 Cdn<sup>16</sup> Directory of Private Weather Services - Free TSUNAMI The Great Waves - Free <sup>11</sup> International SafetyNET Manual, 1994; IMO-908E<sup>12</sup> NAVTEX Manual, 1994; IMO-951E<sup>12</sup> GMDSS Handbook, 1995 (Includes GMDSS Master Plan); IMO-970E<sup>12</sup> SOLAS Consolidated Edition, 1997; IMO-110E<sup>12</sup> Mariners Guide for Hurricane Awareness in the North Atlantic Basin (large file 2.3 MB PDF format) (http://www.nhc.noaa.gov/marinersguide.pdf) U.S. NAVY Hurricane Havens/Heavy Weather Handbooks (https://www.cnmoc.navy.mil/nmosw/handbk.htm) Radiofacsimile Charts User's Guide (large file 2.2 MB PDF format) (http://www.mpc.ncep.noaa.gov/UsersGuide/UG.pdf)

1. FAA/National Aeronautical Charting Office

Distribution Division, AVN-530 6303 Ivy Lane, Suite 400 Greenbelt, MD 20770 (301) 436-8301 (800) 638-8972 toll free, U.S. only (301) 436-6829 FAX Email: 9-AMC-chartsales@faa.gov http://chartmaker.ncd.noaa.gov or your local chart agent: http://chartmaker.ncd.noaa.gov/nsd/states.html

2. Available Internet: Via http://www.nws.noaa.gov/om/index.html Or from your local National Weather Service Forecast Office.

3. Superintendent of Documents P.O. Box 371954 Pittsburgh, PA 15250-7954 (202) 512-1800 (7:30am-4:30pm EST) (202) 512-2250 FAX http://www.gpo.gov http://www.nws.noaa.gov/om/mwl/mwl.htm (Distributed free to ships in VOS program)

4. (Printed copies available only to ships participating in U.S. VOS program) web version http://www.nws.noaa.gov/om/marine/home.htm National Weather Service Voluntary Observing Ship Technical Lead Robert "Luke" Luke NDBC Bldg #1100 Stennis Space Center, MS 39529 1-228-688-1457 1-228-688-3153 (fax) robert.luke@noaa.gov http://www.vos.noaa.gov

5. Joint Publication of National Weather Service and Naval Oceanography Command Currently out of date, out of print, will no longer be available Tim Rulon, NOAA Marine Communications Program Manager National Weather Service W/OS21 1325 East-West Highway Silver Spring, MD 20910 1-301-713-1677 x128 1-301-713-1520 (fax) timothy.rulon@noaa.gov marine.weather@noaa.gov http://www.nws.noaa.gov/om/marine/home.htm 6. (Some publications available only to ships participating in U.S. VOS program) National Weather Service Voluntary Observing Ship Technical Lead Robert "Luke" Luke NDBC Bldg #1100 Stennis Space Center, MS 39529 1-228-688-1457 1-228-688-3153 (fax) robert.luke@noaa.gov http://www.vos.noaa.gov 7. Radio Technical Commission for Maritime Services (RTCM) 1800 Diagonal Rd., Suite 600 Alexandria, VA 22314-2840 (703)-684-4481 (703)-836-4229 (FAX) information@rtcm.org http://www.rtcm.org (New revisions in process) 8. UK Hydrographic Office Admiralty Way, Tauton, Somerset

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

10. National Weather Service Industrial Meteorology Staff 1325 East West Highway Silver Spring, MD 20910 (301)-713-0258 (301)-713-0610 nws.im@noaa.gov http://www.nws.noaa.gov/im

- 11. International Tsunami Information Center 737 Bishop St. Suite 2200 Honolulu, HI 96813-3213 808-532-6422 808-532-5576 (FAX) itic@itic.noaa.gov http://www.nws.noaa.gov/pr/hq/itic.htm
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  +44 0171 5873241 FAX (publication sales)
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13. Superintendent of Documents
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(202) 512-1800 (7:30am-4:30pm EST)
(202) 512-2250 FAX
http://www.gpo.gov
(NIMA product distribution is presently in a transition process from National Ocean Service to GPO)

- 14. Defense Supply Center-Richmond, Customer Assistance ATTN: Product Center 9 8000 Jefferson Davis Highway Richmond, VA 23297-5337 1-800-826-0342 http://164.214.2.59:80/Navigation/ntm/index.cfm
- 15. American Meteorological Society Attn: WMO Publications Center 45 Beacon Street Boston, MA 02108 USA 1-617-227-2425 Fax: 1-617-742-8718 wmopubs@ametsoc.org http://www.wmo.ch/web/catalogue/
- 16. http://www.ccg-gcc.gc.ca/mcts-sctm/ramn\_e.htm RAMN's may be purchased at any Canadian Hydrographic Service Authorized Chart Dealer.

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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.