

# **WORLDWIDE MARINE RADIOFACSIMILE BROADCAST SCHEDULES**

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

## **NATIONAL WEATHER SERVICE**

**Feb 10, 2012**

# INTRODUCTION

Ships....The U.S. Voluntary Observing Ship (VOS) program needs your help! 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 the Internet at:

<http://www.nws.noaa.gov/om/marine/rfax.pdf>

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

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

This PDF file contains links to http pages and FTPMAIL commands. The links may not be compatible with all PDF readers and e-mail systems. The Internet is not part of the National Weather Service's operational data stream and should never be relied upon as a means to obtain the latest forecast and warning data. Become familiar with and use other means such as NOAA Weather Radio to obtain the latest forecasts and warnings. Please read our ***disclaimer***  
<http://www.nws.noaa.gov/disclaimer.php>.

# TABLE of C O N T E N T S

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

## AFRICA

CAPE NAVAL, SOUTH AFRICA-----	I-2
-------------------------------	-----

## ASIA

TOKYO, JAPAN-----	II-1-2
PEVEK, CHUKOTKA PENINSULA-----	II-2
TAIPEI, REPUBLIC OF CHINA-----	II-3
SEOUL, REPUBLIC OF KOREA-----	II-4
BANGKOK, THAILAND-----	II-5
KYODO NEWS, JAPAN/SINGAPORE-----	II-6
NORTHWOOD, UNITED KINGDOM (GULF)--- (not currently active)-----	II-7

## SOUTH AMERICA

RIO DE JANEIRO, BRAZIL-----	III-1
VALPARAISO PLAYA ANCHA, CHILE-----	III-1
PUNTA ARENAS MAGALLANÉS, CHILE-----	III-1

## NORTH AMERICA

HALIFAX, NOVA SCOTIA, CANADA--- (not currently active)-----	IV-1
IQALUIT, CANADA-----	IV-2
RESOLUTE, CANADA-----	IV-2
SYDNEY-NOVA SCOTIA, CANADA-----	IV-3
INUVIK, CANADA-----	IV-3
KODIAK, ALASKA, U.S.A.-----	IV-4
POINT REYES, CALIFORNIA, U.S.A.-----	IV-5,6
NEW ORLEANS, LOUISIANA, U.S.A. -----Until Apr 03, 2012-----	IV-7,8
NEW ORLEANS, LOUISIANA, U.S.A. -----After Apr 03, 2012-----	IV-7,8
BOSTON, MASSACHUSETTS, U.S.A.-----	IV-9,10

## PACIFIC OCEAN BASIN

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

## EUROPE

ATHENS, GREECE-----	VI-1
MURMANSK, RUSSIA-----	VI-1
HAMBURG-PINNEBERG, GERMANY-----	VI-2
NORTHWOOD, UNITED KINGDOM-----	VI-3

## APPENDICIES

MARINE WEATHER VIA THE INTERNET INCLUDING RADIOFAX-----	A
FTPMAIL INSTRUCTIONS-----	B
AMVER/SEAS PC PROGRAM-----	C
EXPERIMENTAL MAROB VOLUNTARY OBSERVATION PROGRAM-----	C
USEFUL MARINE WEATHER PUBLICATIONS-----	D
PORT METEOROLOGICAL OFFICERS-----	E
NOAA WEATHER RADIO-----	Right Cover

# ABOUT THIS PUBLICATION

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

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

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

For information on weather broadcasts worldwide, also refer to NGA Publication 117, the Canadian Coast Guard Radio Aids to Navigation (Canada Only) and the British Admiralty List of Signals, which are updated through Notices to Mariners. Information on these and other marine weather publications may be found in Appendix D. These publications are HIGHLY recommended.

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

This PDF file contains links to http pages and FTPMAIL commands. The links may not be compatible with all PDF readers and e-mail systems. The Internet is not part of the National Weather Service's operational data stream and should never be relied upon as a means to obtain the latest forecast and warning data. Become familiar with and use other means such as NOAA Weather Radio to obtain the latest forecasts and warnings. Please read our ***disclaimer*** <http://www.nws.noaa.gov/disclaimer.php>.

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

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

National Weather Service W/OS21  
1325 East-West Highway  
Silver Spring, MD 20910 USA  
1-301-713-1677 x128  
1-301-713-1520 (fax)  
[marine.weather@noaa.gov](mailto:marine.weather@noaa.gov)

AFRICA



# CAPE NAVAL, SOUTH AFRICA

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

TIME	CONTENTS OF TRANSMISSION	RPM/IOC	VALID TIME	MAP AREA
0430	SCHEDULE	120/576		
0500	SURFACE ANALYSIS(SHIPPING)	120/576	0000	ASXX
0630	AIR PROGNOSES (PREVIOUS DAY'S RUN)	120/576	1200	FUXX
0730	SURFACE PROGNOSES (PREVIOUS DAY'S RUN)	120/576	1200	FSXX
0800	ANTARCTIC ICE LIMITS (OCTOBER TO MARCH)	120/576		AIAA
0915	RTTY WEATHER BULLETINS FOR COASTAL WATERS AND HIGHSEAS	RTTY (170 Hz shift, 75 Baud)		
1030	SURFACE ANALYSIS(SHIPPING)	120/576	0600	ASXX
1100	SURFACE PROGNOSES	120/576	0000	FSXX
1530	SURFACE ANALYSIS(SHIPPING)	120/576	1200	ASXX
1700	RTTY WEATHER BULLETINS FOR COASTAL WATERS AND HIGHSEAS	RTTY (170 Hz shift, 75 baud)		
2230	SURFACE ANALYSIS(SHIPPING)	120/576	1800	ASXX

## MAP AREAS:

ASXX	1:20,000 Lambert	00S20W	00S70E	60S50W	60S90E
FUXX	1:20,000 Mercator	05S15W	05S60E	60S15W	60S60E
FSXX	1:20,000 Mercator	05S15W	05S60E	60S15W	60S60E
AIAA	30E to 30W Antarctic coast to edge of ice pack except NIC West				

(INFORMATION DATED 2009) <http://old.weathersa.co.za/Marine/FrequencyShipFCBroadcast.jsp>





ASIA



# TOKYO, JAPAN

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

  

TIME	CONTENTS OF TRANSMISSION	RPM/IOC	VALID TIME	MAP AREA
0000/1200	RETRANSMISSION OF 2200/0750 (1)	120/576		
0020/-----	96HR SURFACE PRESSURE, PRECIP PROGS	120/576	1200	C
0400/-----	120HR SURFACE PRESSURE, PRECIP PROGS	120/576	1200	C
-----/1220	12/24/48/72HR OCEAN WAVE PROG	120/576	0000	
-----/1240	24 HR 500HPA TEMPERATURE AND 700HPA DEWPOINT DEPRESSION PROG	120/576	0000	
	24HR 850HPA TEMPERATURE WIND AND 700HPA VERTICAL P-VELOCITY PROG			
-----/1251	36 HR 500HPA TEMPERATURE AND 700HPA DEWPOINT DEPRESSION PROG	120/576	0000	
	36HR 850HPA TEMPERATURE WIND AND 700HPA VERTICAL P-VELOCITY PROG			
0103/1303	TEST CHART	120/576		
0110/1310	METEOROLOGICAL SATELLITE PICTURE (MSAT)	120/576	00/12	C'
0130/1330	RETRANSMISSION OF 1019/0730	120/576		
0150/1350	TROPICAL CYCLONE FORECAST(1)	120/576	00/12	C'
0210/-----	SEA SURFACE CURRENT, WATER TEMPERATURE AT 100M DEPTH (2)	120/576		
0229/-----	RADIO PREDICTION (3)	120/576		
-----/1420	RETRANSMISSION OF 0210 (2)			
0240/1440	SURFACE ANALYSIS	120/576	00/12	C'
0300/-----	SEA SURFACE WATER TEMPERATURE (2)	120/576		
0320/1520	THE FIRST RETRANSMISSION OF 0240/1440	120/576		
0340/-----	BROADCAST SCHEDULE and MANUAL AMENDMENTS	120/576		
0400/1540	TROPICAL CYCLONE FORECAST (6)	120/576		
-----/1600	RETRANSMISSION OF 0300 (2)	120/576		
0421/1620	OCEAN WAVE ANALYSIS	120/576	00/12	C''
0440/-----	COASTAL WAVE ANALYSIS	120/576	0000	X
0459/1640	500HPA HEIGHT, TEMPERATURE	120/576	00/12	C
0518/1700	850HPA HEIGHT, TEMPERATURE, DEW POINT DEPRESSION	120/576	00/12	C
-----/1719	COASTAL WAVE ANALYSIS	120/576	1200	X
0537/1739	24HR 500HPA HEIGHT, VORTICITY PROGNOSIS	120/576	00/12	
	24 HR SURFACE PRESSURE, PRECIPITATION PROGNOSIS			
0548/-----	24HR SURFACE PRESSURE, WIND, FOG, ICING, SEA ICE PROG	120/576	0000	C'
0610/1750	RETRANSMISSION OF 0150/1350 (1)	120/576		
0630/-----	48/72 HR SURFACE PRESSURE, PRECIPITATION PROGNOSIS	120/576	00/00	
-----/1810	36HR 500HPA HEIGHT, VORTICITY PROGNOSIS	120/576	1200	
	36HR SURFACE PRESSURE, PRECIPITATION PROGNOSIS			
-----/1821	24 HR 500HPA TEMPERATURE AND 700HPA DEWPOINT DEPRESSION PROG	120/576	1200	
	24HR 850HPA TEMPERATURE WIND AND 700HPA VERTICAL P-VELOCITY PROG			
-----/1832	36 HR 500HPA TEMPERATURE AND 700HPA DEWPOINT DEPRESSION PROG	120/576	1200	
	36HR 850HPA TEMPERATURE WIND AND 700HPA VERTICAL P-VELOCITY PROG			
-----/1850	12/24/48/72HR OCEAN WAVE PROG	120/576	1200	
0651/-----	24HR WAVE PROG (NORTH PACIFIC)	120/576	0000	C''
0710/1910	METEOROLOGICAL SATELLITE PICTURE (MSAT)	120/576	06/18	C'
0730/-----	24HR COASTAL WAVE PROG	120/576	0000	X
-----/1930	24HR SURFACE PRESSURE, WIND, FOG, ICING, SEA ICE PROG	120/576	1200	C'
0750/1950	TROPICAL CYCLONE FORECAST (1)	120/576	06/18	C'
-----/2010	24HR COASTAL WAVE PROG (1)	120/576	1200	X
0809/-----	36HR 500HPA HEIGHT, VORTICITY PROGNOSIS	120/576	0000	
	36HR SURFACE PRESSURE, PRECIPITATION PROGNOSIS			
0820/-----	48HR SURFACE PRESSURE, WIND, FOG, ICING, SEA ICE PROG	120/576	0000	C'
0840/2040	SURFACE ANALYSIS	120/576	06/18	C'
-----/2100	48HR SURFACE PRESSURE, WIND, FOG, ICING, SEA ICE PROG	120/576	1200	C
0900/-----	TROPICAL CYCLONE FORECAST (6)	120/576		
0920/2120	THE FIRST RETRANSMISSION OF 0840/2040	120/576		
0940/-----	RETRANSMISSION OF 0630/1950	120/576		
-----/2140	TROPICAL CYCLONE FORECAST(6)	120/576	1800	C'
1000/-----	RETRANSMISSION OF 0820	120/576		

# TOKYO, JAPAN

TIME	CONTENTS OF TRANSMISSION	RPM/IOC	VALID	MAP
-----/2200	48/72HR SURFACE PRESSURE, PRECIPITATION PROGNOSIS	120/576	1200	
1019/-----	SEA ICE CONDITION ANAL(4), 48HR & 168 HR PROGS(5)	120/576	LATEST	L/L'
-----/2220	RETRANSMISSION OF 1719	120/576		
1040/2240	RETRANSMISSION OF 0548/1950	120/576		
1100/2300	RETRANSMISSION OF 0421/1930	120/576		
1119/2320	RETRANSMISSION OF 0440/2010	120/576		
1140/2340	RETRANSMISSION OF 0651/2100	120/576		

- NOTES: (1) IN CASE OF TROPICAL CYCLONE  
 (2) EVERY TUESDAY AND FRIDAY  
 (3) ON THE 20TH AND 21ST.  
 (4) EVERY TUESDAY AND FRIDAY (SEASONAL) RETRANSMISSION: AT 0130 ON THE NEXT DAY  
 (5) EVERY WEDNESDAY AND SATURDAY (SEASONAL). RETRANSMISSION: AT 0130 ON THE NEXT DAY  
 (6) IF A TROPICAL CYCLONE IS EXPECTED IN 4 DAYS

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

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

MANAM 13th Feb.2009

JMA changes the transmitting station of JMH broadcasting from Ibaraki(36.10N 139.51E) to Kagoshima(31.19N 130.31E) at 4/Mar/2009 13:21 (JST).

MAP AREAS:

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

(INFORMATION DATED 15 Jun 2010) <http://www.jma-net.go.jp/common/177jmh/JMH-ENG.pdf>

# PEVEK, CHUKOTKA PENINSULA

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

(INFORMATION DATED 11/97)

# TAIPEI, REPUBLIC OF CHINA

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

  

TIME	CONTENTS OF TRANSMISSION	RPM/IOC	VALID TIME	MAP AREA
0040/-----	BROADCAST SCHEDULE	120/576		
0110/1300	TYPHOON WARNINGS* (ENGLISH & CHINESE)	120/576	00/12	
0120/1320	GMS SATELLITE IMAGE	120/576	00/12	
0305/1505	FISHERY WEATHER FORECAST (IN CHINESE)	120/576	00/12	
0330/1530	SURFACE ANALYSIS WITH PLOTTED DATA	120/576	00/12	
0350/-----	24HR SURFACE PROG	120/576	0000	
0410/1600	TYPHOON WARNING* (ENGLISH & CHINESE)	120/576	03/15	
0430/1620	500HPA HEIGHT ANALYSIS WITH PLOTTED DATA	120/576	00/12	
0440/1630	SURFACE PRESSURE ANALYSIS	120/576	00/12	
	RFS 500HPA HEIGHT ANALYSIS			
0450/1640	RFS SURFACE PRESSURE PROGNOSIS 12 HOUR	120/576	00/12	
	RFS 500HPA HEIGHT PROGNOSIS 12 HOUR			
0500/1650	RFS SURFACE PRESSURE PROGNOSIS 24 HOUR	120/576	00/12	
	RFS 500HPA HEIGHT PROGNOSIS 24 HOUR			
0510/1700	RFS SURFACE PRESSURE PROGNOSIS 36 HOUR	120/576	00/12	
	RFS 500HPA HEIGHT PROGNOSIS 36 HOUR			
0520/1710	RFS SURFACE PRESSURE PROGNOSIS 48 HOUR	120/576	00/12	
	RFS 500HPA HEIGHT PROGNOSIS 48 HOUR			
0530/1720	RFS SURFACE PRESSURE PROGNOSIS 72 HOUR	120/576	00/12	
	RFS 500HPA HEIGHT PROGNOSIS 72 HOUR			
0700/1900	TYPHOON WARNINGS* (ENGLISH & CHINESE)	120/576	06/18	
0720/1920	GMS SATELLITE IMAGE	120/576	06/18	
-----/2050	GFS 500HPA HEIGHT PROGNOSIS 96 HOUR	120/576	1200	
0905/2105	FISHERY WEATHER FORECAST (IN CHINESE)	120/576	06/18	
0930/2130	SURFACE ANALYSIS WITH PLOTTED DATA	120/576	06/18	
-----/2150	GFS 500HPA HEIGHT PROGNOSIS 120 HOUR	120/576	1200	
1000/2200	TYPHOON WARNINGS* (ENGLISH & CHINESE)	120/576	09/21	

MAP AREA: 48N 060E, 48N 172W, EQ 099E, EQ 154E  
 \* IN CASE OF TYPHOON WARNING

(SCHEDULE EFFECTIVE MAY 01, 2009)  
 (INFORMATION DATED MAY 01, 2009)

# SEOUL, REPUBLIC OF KOREA

CALL SIGN	FREQUENCIES	TIMES	EMISSION	POWER
HLL2	3585 KHz	1200-0000 UTC	F3C	3 KW
HLL2	5857.5 KHz	ALL BROADCAST TIMES	F3C	3 KW
HLL2	7433.5 KHz	ALL BROADCAST TIMES	F3C	3 KW
HLL2	9165 KHz	ALL BROADCAST TIMES	F3C	3 KW
HLL2	13570 KHz	0000-1200 UTC	F3C	3 KW

TIME	CONTENTS OF TRANSMISSION	RPM/IOC	VALID TIME	MAP AREA
0000/1200	SPECIAL WEATHER REPORT	120/576		
0033/1233	SEA-SHORE WEATHER OBSERVATION REPORT	120/576		
0047/1247	FISHERY WEATHER OBSERVATION REPORT	120/576		
0100/-----	MANAM	120/576		
0133/-----	LIGHTHOUSE WEATHER OBSERVATION REPORT	120/576		B
0147/1347	SURFACE ANALYSIS FAR EAST	120/576		
0200/1400	WARNING TYPHOON REPORT	120/576		
0214/-----	GENERAL WEATHER CONDITIONS REPORT	120/576		
-----/1500	SPECIAL WEATHER REPORT	120/576		
-----/1530	SST OBSERVATION CHART OF NEAR KOREAN PENINSULA AREA	120/576		
0314/1547	LIGHTHOUSE SIGN WEATHER OBSERVATION REPORT	120/576		
0333/-----	LIGHTHOUSE WEATHER OBSERVATION REPORT	120/576		
0400/1600	SURFACE ANALYSIS FAR ASIA	120/576		
0447/1647	SURFACE ANALYSIS FAR EAST	120/576		B
0500/1700	500hPa UPPER AIR WEATHER CHART	120/576		A
0513/1713	650hPa UPPER AIR WEATHER CHART	120/576		A
0526/1726	700hPa UPPER AIR WEATHER CHART	120/576		A
0539/1739	300hPa UPPER AIR WEATHER CHART	120/576		A
0600/1800	SPECIAL WEATHER REPORT	120/576		
0633/-----	LIGHTHOUSE WEATHER OBSERVATION REPORT	120/576		
-----/1833	SEA-SHORE WEATHER OBSERVATION REPORT	120/576		
0647/1847	FISHERY WEATHER OBSERVATION REPORT	120/576		
0700/1900	12HR WAVE HEIGHT & SEA SURFACE WIND FORECAST	120/576		C
0714/1914	24HR WAVE HEIGHT & SEA SURFACE WIND FORECAST	120/576		C
0728/1928	36HR WAVE HEIGHT & SEA SURFACE WIND FORECAST	120/576		C
0747/1947	SURFACE ANALYSIS FAR EAST	120/576		
0800/2000	WARNING TYPHOON REPORT	120/576		
0814/2014	GENERAL WEATHER CONDITIONS REPORT	120/576		
0828/-----	SST OBSERVATION CHART OF NEAR KOREAN PENINSULA AREA	120/576		
0846/2046	MAIN SEASHORE WEATHER FORECAST FOR SHIP ROUTE	120/576		
0900/2100	SEA FORECAST	120/576		
0914/2114	LIGHTHOUSE SIGN WEATHER OBSERVATION REPORT	120/576		
0933/2133	LIGHTHOUSE WEATHER OBSERVATION REPORT	120/576		
0947/2147	WEEKLY SEA WEATHER FORECAST	120/576		
-----/2233	LIGHTHOUSE WEATHER OBSERVATION REPORT	120/576		
1047/2247	SURFACE ANALYSIS FAR EAST	120/576		B

- NOTES:
1. IN CASE OF TYPHOON.
  2. NOVEMBER TO APRIL.
  3. MAY TO SEPTEMBER
  4. ALTERNATING BLACK AND WHITE SIGNALS WITH FREQUENCY OF 300 Hz WILL BE TRANSMITTED FOR 10 SECONDS PRIOR TO THE PHASING SIGNAL.
  5. PHASING SIGNALS WILL BE TRANSMITTED FOR 30 SECONDS PRIOR TO TRANSMISSION OF EACH CHART.
  6. STOP SIGNALS WILL BE TRANSMITTED FOR 15 SECONDS AFTER EACH TRANSMISSION.
  7. "TSUNAMI WARNING" IS TRANSMITTED WITHOUT DELAY

MAP AREA: A – Lambert Conformal Conic 01.1N, 084.0E, 39.7N 41.9E, 06.5N 156.8E, 55.1N 199.4E  
 B – Lambert Conformal Conic 16.3N, 100.7E, 49.5 N 82.6E, 17.8N 145.5E, 52.4N 160.4E  
 C – Lambert Conformal Conic 20-50N, 115-150E

(INFORMATION DATED Jan 01, 2009) Many of these reports may be in Korean

# BANGKOK, THAILAND

<b>CALL SIGNS</b>	<b>FREQUENCIES</b>	<b>TIMES</b>	<b>EMISSION</b>	<b>POWER</b>
HSW64	7395.0 kHz *		F3C	3 KW

TIME	CONTENTS OF TRANSMISSION	RPM/IOC	VALID TIME	MAP AREA
0050/-----	TEST CHART	120/576		
0100/0700	FORECAST FOR SHIPPING (IN ENGLISH)	120/576	00/06	A
0120/-----	SURFACE PRESSURE	120/576	1200	A
0140/-----	SURFACE ANALYSIS	120/576	1800	A
0200/-----	BROADCAST SCHEDULE	120/576		
0300/0720	24 HR SURFACE PROG	120/576	12/12	A
0320/0740	48 HR SURFACE PROG	120/576	12/12	A
0340/0800	72 HR SURFACE PROG	120/576	12/12	A
-----/0820	24 HR 850 MB WIND/TEMP PROG	120/576	1200	A
0400/1000	FORECAST FOR SHIPPING (IN ENGLISH)	120/576	03/09	A
0420/-----	24 HR 850 MB WIND/TEMP PROG	120/576	1200	A
0500/1020	SURFACE ANALYSIS	120/576	00/06	A
0520/-----	850 MB ANALYSIS	120/576	0000	A
0540/-----	700 MB ANALYSIS	120/576	0000	A
0600/-----	500 MB ANALYSIS	120/576	0000	A
-----/1300	FORECAST FOR SHIPPING (IN ENGLISH)	120/576	1200	A
-----/1700	FORECAST FOR SHIPPING (IN ENGLISH)	120/576	1700	A
-----/1720	SURFACE ANALYSIS	120/576	1200	
-----/2300	FORECAST FOR SHIPPING (IN ENGLISH)	120/576	1700	A
-----/2320	SURFACE ANALYSIS	120/576	1800	A

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

\* May refer to carrier frequency, for center frequency add 1.9 kHz

(INFORMATION DATED JAN 2009)

# KYODO NEWS AGENCY, JAPAN/SINGAPORE

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

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

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

Some of these transmissions may be encrypted

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



# NORTHWOOD, UNITED KINGDOM (PERSIAN GULF) – not currently active –

CALL SIGNS	FREQUENCIES	TIMES	EMISSION	POWER
GYA	6834 KHz	1800-0800 UTC	F3C	10 KW
GYA	12390 KHz	ALL BROADCAST TIMES	F3C	10 KW
GYA	18261 KHz	0800-1800 UTC	F3C	10 KW

  

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

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

(INFORMATION DATED OCT 24 2007) (Reported as being held in abeyance as of late 2010)



SOUTH  
AMERICA



# RIO DE JANEIRO, BRAZIL

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

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

MAP AREA: A: 1:101,200,000 20N 090W, 20N 000E, 70 S 090W, 70S 000E  
 B: 1:58,500,000 20N 090W, 20N 020E, 70S 090W, 70S 020E  
 C: 1:58,500,000 20N 090W, 20N 020E, 70S 090W, 70S 020E  
 D: 1:32,700,000 15N 072W, 15N 018W, 50S 072W, 50S 018E

(INFORMATION DATED 28 Oct 2008) <http://www.mar.mil.br/dhn/chm/meteo/info/transmissoes/apend3ing.htm>

# VALPARAISO PLAYA ANCHA, CHILE (CBV) PUNTA ARENAS MAGALLANES, CHILE (CBM)

CALL SIGNS	FREQUENCIES	TIMES	EMISSION	POWER
CBV	4228.0 kHz	ALL BROADCAST TIMES	F3C	1 KW
CBV	8677.0 kHz	ALL BROADCAST TIMES	F3C	1 KW
CBV	17146.4 kHz	ALL BROADCAST TIMES	F3C	1 KW
CBM	4322.0 kHz	ALL BROADCAST TIMES	F3C	1 KW
CBM	8696.0 kHz	ALL BROADCAST TIMES	F3C	1 KW

TIME	CONTENTS OF TRANSMISSION (CBV)	RPM/IOC	VALID TIME	MAP AREA
1100	TEST CHART CBV CBM SCHEDULES	120/576		
1115	12HR SURFACE FORECAST	120/576	0000	A
1130	SATELLITE IMAGE	120/576	0900	A
1630	24 HR SURFACE FORECAST	120/576	1200	A
1645	SATELLITE IMAGE	120/576	1500	A
1915	SIGNIFICANT WAVE MAP FORECAST	120/576	1200	A
1930	SATELLITE IMAGE	120/576	1800	A
2200	36 HR SURFACE FORECAST	120/576	0000	A
2215	ANTARCTIC ICE LIMITS	120/576	WEEK	B
2230	WINDS BARB ISOTACHS FORECAST	120/576	1200	A
2310	48 HR SURFACE FORECAST	120/576	1200	A
2325	SATELLITE IMAGE	120/576	2100	A

TIME	CONTENTS OF TRANSMISSION (CBM)	RPM/IOC	VALID TIME	MAP AREA
1550	TEST CHART CBV CBM SCHEDULES	120/576		
1605	12HR SURFACE FORECAST	120/576	0000	A
1620	SATELLITE IMAGE	120/576	1200	A
1730	24 HR SURFACE FORECAST	120/576	1200	A
1745	SATELLITE IMAGE	120/576	1500	A
2005	SIGNIFICANT WAVE MAP FORECAST	120/576	1200	A
2020	SATELLITE IMAGE	120/576	1800	A
2240	36 HR SURFACE FORECAST	120/576	0000	A
2255	ANTARCTIC ICE LIMITS	120/576	WEEK	B
2310	WINDS BARB ISOTACHS FORECAST	120/576	1200	A
0350	48 HR SURFACE FORECAST	120/576	1200	A
0405	SATELLITE IMAGE	120/576	2400	A

MAP AREA: A: 10S-120W, 10S-50W, 80S-130W, 80S-30W  
 MAP AREA: B: 50S-90W, 50S-30W, 85S-90W, 85S-30W

(INFORMATION DATED Sep 23, 2010)  
[http://meteoarmada.directemar.cl/prontus\\_meteo/site/artic/20100817/pags/20100817162223.html](http://meteoarmada.directemar.cl/prontus_meteo/site/artic/20100817/pags/20100817162223.html)



NORTH  
AMERICA





# HALIFAX, NOVA SCOTIA, CANADA – not currently active

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

TIME	CONTENTS OF TRANSMISSION	RPM/IOC TIME	VALID AREA	MAP
0001/-----	Ice Chart #1 (see note): Latest)	120/576	LATEST	
-----/1201	3-DAY PROG	120/576	1200	G
0101/-----	SATELLITE PHOTO INFRARED	120/576	0000	
-----/1222	4-DAY PROG	120/576	1200	G
-----/1301	5-DAY PROG	120/576	1200	G
0201/1401	12/00Z SIGNIFICANT WEATHER DEPICTION	120/576	12/00	A
0301/1501	500MB ANALYSIS	120/576	00/12	B
0322/1522	SURFACE ANALYSIS	120/576	00/12	F
-----/1601	850MB ANALYSIS	120/576	1200	B
0401/1622	36HR 500MB FORECAST	120/576	12/00	H
0422/1701	24HR SURFACE PROG	120/576	00/12	A
0501/-----	850 MB FORECAST WINDS	120/576	18&00	C
0601/1801	36HR SURFACE PROG	120/576	12/00	A
-----/1822	850MB FORECAST WINDS	120/576	06&12	C
0701/1901	18/06Z SIGNIFICANT WEATHER DEPICTION	120/576	18/06	A
0801/2001	24/36HR SIGNIFICANT WAVE PROGNOSIS	120/576	0&12/12&0	A
0901/2101	SURFACE ANALYSIS	120/576	06/18	F
1001/-----	SST: NOVA SCOTIA - MON NEWFOUNDLAND - TUE/FRI	120/576	LATEST	E/D
1001/-----	OFA: NOVA SCOTIA - WED/SAT NEWFOUNDLAND - SUN/THU	120/576	LATEST	E/D
-----/2201	SST: NOVA SCOTIA - TUE/THU/FRI NEWFOUNDLAND - WED/SAT	120/576	LATEST	E/D
-----/2201	OFA: NOVA SCOTIA - SUN NEWFOUNDLAND - MON	120/576	LATEST	E/D
1022/-----	SATELLITE PHOTO INFRARED	120/576	0900	
-----/2222	NEWFOUNDLAND ICE CHART	120/576	LATEST	
1101/-----	CFH BROADCAST SCHEDULE	120/576		
-----/2301	GULF OF ST LAWRENCE ICE CHART (SEASONAL)	120/576	LATEST	

## NOTES:

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

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

MAP AREAS: A. 56N 87W, 56N 24W, 34N 38W, 34N 73W E. 50N 75W, 50N 48W, 34N 48W, 34N 75W  
 B. 76N 16W, 30N 20W, 23N 11W, 08N 69W F. 52N 98W, 58N 24W, 30N 39W, 28N 78W  
 C. 52N 80W, 65N 15W, 30N 60W, 34N 17W G. 52N 98W, 56N 24W, 30N 39W, 28N 78W  
 D. 60N 68W, 60N 33W, 43N 33W, 43N 68W H. 30N 107W, 15N 67W, 34N 24W, 79N 60W  
 I. 54N 100W, 58N 22W, 30N 39W, 28N 78W

The Canadian Forces Fleet MetOc Broadcast service (radioteletype and radiofacsimile) was placed in abeyance effective September 2, 2010. The Canadian Forces Fleet MetOc Broadcast may be reinstated and ceased without warning as necessitated by military operational requirements. When notified, MCTS will issue a Notice to Shipping concerning reinstatements or cessations of this service.

(INFORMATION DATED 2011) <http://www.ccg-gcc.gc.ca/folios/00026/docs/RAMN-Atlantic-2011-eng.pdf>

# IQALUIT, CANADA

CALL SIGN	FREQUENCIES	TIMES	EMISSION	POWER
VFF	3253.0 kHz	2100 – 2330 UTC	J3C	5 KW
VFF	7710.0 kHz	0010 – 0900 UTC	J3C	5 KW
TIME	CONTENTS OF TRANSMISSION	RPM/IOC	VALID TIME	MAP AREA
0100/1000	Marine Surface Analysis (Arctic) Marine Wind Prognosis (Arctic)(experimental product) Regional Marine Wind Prognosis (on request)	120/576		
0200/1100	Ice analysis Hudson Bay south, Hudson Bay north, Hudson Strait, Foxe Basin, Labrador Coast, Davis Strait, Baffin Bay	120/576		
0600/2100	Marine Surface Analysis (Arctic) Marine wind prognosis (Arctic) (experimental product) Regional Marine Wind Prognosis (on request)	120/576		
0700/2200	Ice Analysis Hudson Bay south, Hudson Bay north, Hudson Strait, Foxe Basin, Labrador Coast, Davis Strait, Baffin Bay.	120/576		

Operating only from approximately mid-June until late-November

(INFORMATION DATED 2011) <http://www.ccg-gcc.gc.ca/folios/00026/docs/RAMN-Atlantic-2011-eng.pdf>

# RESOLUTE, CANADA

CALL SIGN	FREQUENCIES	TIMES	EMISSION	POWER
VFR	3253.0 kHz	0010 – 0900 UTC	J3C	5 KW
VFR	7710.0 kHz	2100 – 2330 UTC	J3C	5 KW
TIME	CONTENTS OF TRANSMISSION	RPM/IOC	VALID TIME	MAP AREA
0100/1000	Marine Surface Analysis (Arctic) Marine wind prognosis (Arctic) ( experimental product) Regional Marine Wind Prognosis (on request)	120/576		
0200/1100	Ice analysis Baffin Bay, Approaches to Resolute, Resolute-Byam, Eureka Sound, McClure Strait, Parry Channel and Queen Maude.	120/576		
0600/2100	Marine Surface Analysis (Arctic) Marine wind prognosis (Arctic) (experimental product) Regional Marine Wind Prognosis (on request)	120/576		
0700/2200	Ice analysis Baffin Bay, Approaches to Resolute, Resolute-Byam, Eureka Sound, McClure Strait, Parry Channel and Queen Maude.	120/576		

Operating only from approximately mid-June until late-November

(INFORMATION DATED 2011) <http://www.ccg-gcc.gc.ca/folios/00026/docs/RAMN-Atlantic-2011-eng.pdf>

## SYDNEY - NOVA SCOTIA, CANADA

CALL SIGN	FREQUENCIES	TIMES	EMISSION	POWER
VCO	4416 kHz	1121-1741	J3C	
VCO	6915.1 kHz	2200-2331	J3C	

  

TIME	CONTENTS OF TRANSMISSION	RPM/IOC	VALID TIME	MAP AREA
1121	ICE ANALYSIS GULF OF ST. LAWRENCE	120/576		
1142	ICE ANALYSIS EAST OR SOUTHEAST NEWFOUNDLAND WATERS	120/576		
1741	ICE ANALYSIS ICEBERG LIMIT	120/576		
2200	ICE ANALYSIS GULF OF ST. LAWRENCE	120/576		
2331	ICE ANALYSIS EAST OR SOUTHEAST NEWFOUNDLAND WATERS	120/576		

(INFORMATION DATED 2011) <http://www.ccg-gcc.gc.ca/folios/00026/docs/RAMN-Atlantic-2011-eng.pdf>

## INUVIK, CANADA

CALL SIGN	FREQUENCIES	TIMES	EMISSION	POWER
VFA	8457.8 kHz		J3C	1 KW

  

TIME	CONTENTS OF TRANSMISSION	RPM/IOC	VALID TIME	MAP AREA
0200	Marine Wind Prognosis (Availability of charts may vary depending on shipping Ice Analysis (mid July to October 15) Amundsen Gulf, Queen Maud and McClure Strait. Ice Analysis Beaufort Sea/Alaskan Coast	120/576	1200	
1630	Marine Surface Analysis (Availability of charts may vary depending on shipping Ice Analysis (mid July to October 15) Amundsen Gulf, Queen Maud and McClure Strait. Ice Analysis Beaufort Sea/Alaskan Coast	120/576	1200	

Note: Also available on request

(INFORMATION DATED 2011) <http://www.ccg-gcc.gc.ca/folios/00026/docs/RAMN-Pacific-2011-eng.pdf>

# KODIAK, ALASKA, U.S.A.

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

CARRIER FREQUENCY IS 1.9 kHz BELOW THE ASSIGNED FREQUENCY

TIME	CONTENTS OF TRANSMISSION	RPM/IOC	VALID TIME	MAP AREA
0340/1540	TEST PATTERN	120/576		
0343/1543	SEA ICE ANALYSIS/REBROADCAST 5-DAY SEA ICE FORECAST	120/576	LATEST	6
0403/1603	SURFACE ANALYSIS	120/576	00/12	2
0427/1627	REBROADCAST 24HR SURFACE F'CAST 2227/1027	120/576	12/00	3
0437/1637	REBROADCAST 48HR SURFACE F'CAST 2237/1037	120/576	1200	1
0447/1647	REBROADCAST 96HR SURFACE F'CAST 2348	120/576	LATEST	
0456/1656	SEA STATE ANALYSIS/REBROADCAST	120/576	00/00	1
0506/1706	GOES IR SATELLITE IMAGE	120/576	00/12	5
0517/1717	500 MB ANALYSIS	120/576	00/12	1
0527/1727	SYMBOLS AND CONTRACTIONS/SCHEDULE	120/576		
0548/1748	REQUEST FOR COMMENTS/PRODUCT NOTICE	120/576		
0558/1758	24HR 500 MB FORECAST	120/576	00/12	1
0950/2150	TEST PATTERN	120/576		
0953/2153	SURFACE ANALYSIS	120/576	06/18	2
1017/2217	24HR WIND/WAVE FORECAST	120/576	00/12	3
1027/2227	24HR SURFACE FORECAST	120/576	00/12	3
1037/2237	48HR SURFACE FORECAST	120/576	00/12	1
1047/2247	48HR WIND/WAVE FORECAST	120/576	00/12	1
1057/2257	5-DAY SEA ICE FORECAST/REBROADCAST SEA ICE ANALYSIS	120/576	LATEST	6
1117/2317	GOES IR SATELLITE IMAGE	120/576	06/18	5
1128/2328	48HR WAVE PERIOD, SWELL DIRECTION	120/576	00/12	1
1138/2338	48HR 500 MB FORECAST	120/576	00/12	1
1148/-----	SEA SURFACE TEMPERATURE ANALYSIS	120/576	LATEST	4
1159/-----	COOK INLET SEA ICE FORECAST	120/576	LATEST	7
-----/2348	96HR SURFACE FORECAST	120/576	1200	1
-----/2358	96HR WIND/WAVE FORECAST	120/576	1200	1
-----/0008	96HR WAVE PERIOD, SWELL DIRECTION	120/576	1200	1
-----/0018	96HR 500 MB FORECAST	120/576	1200	1

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

Send comments regarding the contents of these charts to:  
 Marine Services Program Manager  
 National Weather Service Alaska Region  
 222 West 7th Avenue  
 Anchorage, AK 99513-7575  
 907-271-5088 /FAX: 907-271-3711  
[nws.ar.arh.webauthors@noaa.gov](mailto:nws.ar.arh.webauthors@noaa.gov)

Send comments regarding the quality of this broadcast to:  
 U.S. Coast Guard  
 Commander COMMSTA Kodiak  
 P.O. Box 190017  
 Kodiak, AK 99619-0017  
 907-487-5426 /FAX: 907-487-5517  
 907-487-5778 (24Hr)

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

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

<http://www.nws.noaa.gov> NWS Homepage  
<http://www.nws.noaa.gov/om/marine/home.htm> NWS Marine Page  
 cell.weather.gov (WAP/WML browser required) Cellphone page  
[mobile.weather.gov](http://mobile.weather.gov) Mobile Page

(SCHEDULE EFFECTIVE MAR 16, 2011)  
 (INFORMATION DATED MAR 25, 2011) <http://weather.noaa.gov/pub/fax/hfak.txt>

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

CALL SIGN	FREQUENCIES	TIMES (UTC)	EMISSION	POWER
NMC	4346 kHz	0140-1608	F3C	4 KW
	8682 kHz	ALL BROADCAST TIMES	F3C	4 KW
	12786 kHz	ALL BROADCAST TIMES	F3C	4 KW
	17151.2 kHz	ALL BROADCAST TIMES	F3C	4 KW
	22527 kHz	1840-2356	F3C	4 KW

TIME	CONTENTS OF TRANSMISSION	RPM/IOC	VALID TIME	MAP AREA
0140/1400	TEST PATTERN	120/576		
0143/1403	NE PACIFIC GOES IR SATELLITE IMAGE	120/576	00/12	6
0154/1414	PACIFIC GOES IR SATELLITE IMAGE	120/576	00/12	5
0205/1425	TROPICAL SEA STATE ANALYSIS	120/576	00/12	4
0215/1435	TROPICAL 48HR SURFACE FORECAST	120/576	12/00	4
0225/-----	TROPICAL 48HR WIND/WAVE FORECAST	120/576	1200	4
0235/-----	TROPICAL 72HR WIND/WAVE FORECAST	120/576	1200	4
0245/1445	500MB ANALYSIS	120/576	00/12	1
0255/1455	SEA STATE ANALYSIS, WIND/WAVE ANALYSIS	120/576	00/12	1/8
0305/1505	PRELIM SURFACE ANALYSIS (PART 1 NE PAC)	120/576	00/12	2
0318/1518	PRELIM SURFACE ANALYSIS (PART 2 NW PAC)	120/576	00/12	3
0331/1531	FINAL SURFACE ANALYSIS(PART 1 NE PAC)	120/576	00/12	2
0344/1544	FINAL SURFACE ANALYSIS(PART 2 NW PAC)	120/576	00/12	3
0357/1557	CYCLONE DANGER AREA* or HIGH WIND/WAVES	120/576	03/15	10
0408/1608	TROPICAL SURFACE ANALYSIS	120/576	00/12	4
0655/1840	TEST PATTERN			
0657/-----	2033Z REBROADCAST (96HR 500MB)	120/576	1200	1
0707/-----	2043Z REBROADCAST (96HR SURFACE)	120/576	1200	1
0717/-----	2053Z REBROADCAST (96HR WIND/WAVE)	120/576	1200	1
0727/-----	2103Z REBROADCAST (96HR WAVE PERIOD)	120/576	1200	1
-----/1842	SST ANALYSIS	120/576	LATEST	9
-----/1852	SST ANALYSIS	120/576	LATEST	6
0737/1902	TROPICAL GOES IR SATELLITE IMAGE	120/576	06/18	7
0748/1913	WIND/WAVE ANALYSIS	120/576	06/18	8
0758/1923	24HR 500MB FORECAST	120/576	00/12	1
0808/1933	24HR SURFACE FORECAST	120/576	00/12	8
0818/1943	24HR WIND/WAVE FORECAST	120/576	00/12	8
0828/1953	48HR 500MB FORECAST	120/576	00/12	1
0838/2003	48HR SURFACE FORECAST	120/576	00/12	1
0848/2013	48HR WIND/WAVE FORECAST	120/576	00/12	1
0858/2023	48HR WAVE PERIOD/SWELL DIRECTION	120/576	00/12	1
-----/2033	96HR 500MB FORECAST	120/576	1200	1
-----/2043	96HR SURFACE FORECAST	120/576	1200	1
-----/2053	96HR WIND/WAVE FORECAST	120/576	1200	1
-----/2103	96HR WAVE PERIOD/SWELL DIRECTION	120/576	1200	1
0908/2113	PACIFIC GOES IR SATELLITE IMAGE	120/576	06/18	5
0919/2124	SURFACE ANALYSIS (PART 1 NE PACIFIC)	120/576	06/18	2
0932/2137	SURFACE ANALYSIS (PART 2 NW PACIFIC)	120/576	06/18	3
0945/2150	TROPICAL SURFACE ANALYSIS	120/576	06/18	4
0959/2204	TROPICAL 24HR WIND/WAVE FORECAST	120/576	00/12	4
1009/2214	CYCLONE DANGER AREA* or HIGH WIND/WAVES	120/576	09/21	10
1120/2320	TEST PATTERN	120/576		
1124/2324	BROADCAST SCHEDULE (PART 1)	120/576		
1135/2335	BROADCAST SCHEDULE (PART 2)	120/576		
1146/-----	REQUEST FOR COMMENTS	120/576		
1157/-----	PRODUCT NOTICE BULLETIN	120/576		
1208-----	TROPICAL 48HR WIND/WAVE FORECAST	120/576	0000	4
1218/-----	TROPICAL 72HR WIND/WAVE FORECAST	120/576	0000	4
1228/2346	TROPICAL 48HR WAVE PERIOD/SWELL DIR	120/576	00/12	4
-----/2356	TROPICAL 72HR WAVE PERIOD/SWELL DIR	120/576	0000	4

\* Tropical Cyclone Danger Area chart replaced by 48HR High Wind/Wave Warning chart Dec 01 - May 14 Valid times 00z,06z,12z and 18z

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

MAP AREAS: 1. 20N - 70N, 115W - 135E                      2. 20N - 70N, 115W - 175W  
3. 20N - 70N, 175W - 135E                      4. 20S - 30N, EAST OF 145W  
5. 05N - 55N, EAST OF 180W                      6. 23N - 60N, EAST OF 150W  
7. 05N - 32N, EAST OF 130W                      8. 18N - 62N, EAST OF 157W  
9. 40N - 53N, EAST OF 136W                      10. 0N - 40N, 80W - 180W

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

Please send comments regarding  
the quality of these charts to:

NATIONAL WEATHER SERVICE/NOAA  
MARINE FORECAST BRANCH W/NP41  
5200 AUTH ROAD  
CAMP SPRINGS, MD 20746  
PHONE: (301) 763-8000 x 7401  
FAX: (301) 763-8085  
EMAIL: Anthony.Siebers@noaa.gov

Please send comments regarding  
the quality of this broadcast to:

COMMANDING OFFICER  
USCG CAMSPAC  
17000 SIR FRANCIS DRAKE BLVD.  
P.O. Box 560  
PT. REYES STATION, CA 94956-0560  
(877) 662-4636 (415)669-2047  
D11-PF-CAMSPACCWO@USCG.MIL

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

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

<http://www.nws.noaa.gov>

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

[cell.weather.gov](http://cell.weather.gov) (WAP/WML browser required)

[mobile.weather.gov](http://mobile.weather.gov)

NWS Homepage

NWS Marine Page

Cellphone page

Mobile Page

(SCHEDULE EFFECTIVE NOV 03, 2008 1719z)

(INFORMATION DATED JAN 10, 2011) <http://weather.noaa.gov/pub/fax/hfreyes.txt>

# NEW ORLEANS, LOUISIANA, U.S.A. (until Apr 03, 2012 1800 UTC)

CALL SIGN	FREQUENCIES	TIMES (UTC)	EMISSION	POWER
NMG	4317.9 kHz	ALL BROADCAST TIMES	F3C	4 KW
	8503.9 kHz	ALL BROADCAST TIMES	F3C	4 KW
	12789.9 kHz	ALL BROADCAST TIMES	F3C	4 KW
	17146.4 kHz	1200-2045	F3C	4 KW

TIME	CONTENTS OF TRANSMISSION	RPM/IOC	VALID TIME	MAP AREA
0000/1200	TEST PATTERN	120/576		
0005/1205	U.S./TROPICAL SURFACE ANALYSIS (W HALF)	120/576	18/06	1
0020/1220	TROPICAL SURFACE ANALYSIS (E HALF)	120/576	18/06	2
0035/1235	(REBROADCAST OF 1835/0635)	120/576	12/00	3
0045/1245	(REBROADCAST OF 1845/0645)	120/576	12/00	3
0055/1255	(REBROADCAST OF 1855/0655)	120/576	12/00	3
0105/1305	(REBROADCAST OF 1905/0705)	120/576	12/00	3
0115/1315	(REBROADCAST OF 1915/0715)	120/576	12/00	3
0125/1325	(REBROADCAST OF 1925/0725)	120/576	12/00	3
0135/1335	CYCLONE DANGER AREA* or 48 HR HIGH WIND/WAVES	120/576	21/09	6
0150/-----	(REBROADCAST OF 0825)	120/576	0000	3
-----/1350	36 HR WIND/WAVE FORECAST	120/576	1200	3
0200/1400	GOES IR TROPICAL SATELLITE IMAGE	120/576	00/12	4
0215/1415	00 HR SEA STATE ANALYSIS	120/576	00/12	3
0225/1425	REQUEST FOR COMMENTS/PRODUCT NOTICE	120/576		
0245/1445	HIGH SEAS FORECAST (IN ENGLISH)	120/576	22/10	5
0600/1800	TEST PATTERN	120/576		
0605/1805	U.S./TROPICAL SURFACE ANALYSIS (W HALF)	120/576	00/12	1
0620/1820	TROPICAL SURFACE ANALYSIS (E HALF)	120/576	00/12	2
0635/1835	24 HR WIND/WAVE FORECAST	120/576	00/12	3
0645/1845	48 HR WIND/WAVE FORECAST	120/576	00/12	3
0655/1855	72 HR WIND/WAVE FORECAST	120/576	00/12	3
0705/1905	24 HR SURFACE FORECAST	120/576	00/12	3
0715/1915	48 HR SURFACE FORECAST	120/576	00/12	3
0725/1925	72 HR SURFACE FORECAST	120/576	00/12	3
0735/1935	CYCLONE DANGER AREA* or 48HR HIGH WIND/WAVES	120/576	03/15	6
0750/1950	48 HR WAVE PERIOD/SWELL DIRECTION	120/576	00/12	3
0800/2000	GOES IR TROPICAL SATELLITE IMAGE	120/576	07/18	4
0815/2015	(REBROADCAST OF 0215/1415)	120/576	00/12	3
0825/-----	72 HR WAVE PERIOD/SWELL DIRECTION	120/576	0000	3
0835/-----	(REBROADCAST OF 1350)	120/576	1200	
-----/2025	BROADCAST SCHEDULE	120/576		
0845/2045	HIGH SEAS FORECAST (IN ENGLISH)	120/576	04/16	5

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

- MAP AREAS:
1. 5S - 50N, 55W - 125W
  2. 5S - 50N, 0W - 70W
  3. 0N - 31N, 35W - 100W
  4. 12S - 44N, 28W - 112W
  5. 7N - 31N, 35W - 98W (AREA COVERED BY TEXT FORECAST)
  6. 05N - 60N, 0W - 100W

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

Please send comments regarding the quality of these charts to:

Please send comments regarding the quality of this broadcast to:

NATIONAL HURRICANE CENTER  
ATTN: CHIEF TAFB  
11691 SOUTHWEST 17TH STREET  
MIAMI, FL 33165-2149  
PHONE: (305) 229-4454  
FAX: (305) 553-1264  
EMAIL: Hugh.Cobb@noaa.gov

COMMANDING OFFICER  
USCG CAMSLANT  
4720 DOUGLAS A. MUNRO RD.  
CHESAPEAKE, VA 23322-2598  
(800) 742-8519 (757)421-6240  
CamlantCWO's@camlant.uscg.mil

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

Tropical cyclone charts also broadcast from Boston, MA

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

<http://www.nws.noaa.gov>

NWS Homepage

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

NWS Marine Page

[cell.weather.gov](http://cell.weather.gov) (WAP/WML browser required)

Cellphone page

[mobile.weather.gov](http://mobile.weather.gov)

Mobile Page

(Schedule Effective Dec 01, 2008)

(Information dated May 13, 2011) <http://weather.noaa.gov/pub/fax/hfgulf.txt>



# NEW ORLEANS, LOUISIANA, U.S.A. (after Apr 03, 2012 1800 UTC)

CALL SIGN	FREQUENCIES	TIMES (UTC)	EMISSION	POWER
NMG	4317.9 kHz	ALL BROADCAST TIMES	F3C	4 KW
	8503.9 kHz	ALL BROADCAST TIMES	F3C	4 KW
	12789.9 kHz	ALL BROADCAST TIMES	F3C	4 KW
	17146.4 kHz	1200-2045	F3C	4 KW

TIME	CONTENTS OF TRANSMISSION	RPM/IOC	VALID TIME	MAP AREA
0000/1200	TEST PATTERN	120/576		
0005/1205	U.S./TROPICAL SURFACE ANALYSIS (W HALF)	120/576	18/06	1
0020/1220	TROPICAL SURFACE ANALYSIS (E HALF)	120/576	18/06	2
0035/1235	REBROADCAST OF 1925/0725 (24 HR WIND/WAVE)	120/576	12/00	3
0045/1245	REBROADCAST OF 1950/0750 (48 HR WIND/WAVE)	120/576	12/00	3
0055/1255	REBROADCAST OF 2015/0815 (72 HR WIND/WAVE)	120/576	12/00	3
0105/1305	REBROADCAST OF 1855/0655 (24 HR SURFACE)	120/576	12/00	3
0115/1315	REBROADCAST OF 1905/0705 (48 HR SURFACE)	120/576	12/00	3
0125/1325	REBROADCAST OF 1915/0715 (72 HR SURFACE)	120/576	12/00	3
0135/1335	CYCLONE DANGER AREA* or 48 HR HIGH WIND/WAVES	120/576	21/09	6
0150/-----	REBROADCAST OF 0825 (72 HR WAVE PD/SWELL)	120/576	0000	3
-----/1350	36 HR WIND/WAVE FORECAST	120/576	1200	3
0200/1400	GOES IR TROPICAL SATELLITE IMAGE	120/576	00/12	4
0215/1415	SEA STATE ANALYSIS	120/576	00/12	3
0225/1425	REQUEST FOR COMMENTS/PRODUCT NOTICE	120/576		
0245/1445	HIGH SEAS FORECAST (IN ENGLISH)	120/576	22/10	5
0600/1800	TEST PATTERN	120/576		
0605/1805	U.S./TROPICAL SURFACE ANALYSIS (W HALF)	120/576	00/12	1
0620/1820	TROPICAL SURFACE ANALYSIS (E HALF)	120/576	00/12	2
0635/1835	48 HR WAVE PERIOD/SWELL DIRECTION	120/576	00/12	3
0645/1845	REBROADCAST OF 0215/1415 (SEA STATE ANAL')	120/576	00/12	3
0655/1855	24 HR SURFACE FORECAST	120/576	00/12	3
0705/1905	48 HR SURFACE FORECAST	120/576	00/12	3
0715/1915	72 HR SURFACE FORECAST	120/576	00/12	3
0725/1925	24 HR WIND/WAVE FORECAST	120/576	00/12	3
0735/1935	CYCLONE DANGER AREA* or 48HR HIGH WIND/WAVES	120/576	03/15	6
0750/1950	48 HR WIND/WAVE FORECAST	120/576	00/12	3
0800/2000	GOES IR TROPICAL SATELLITE IMAGE	120/576	06/18	4
0815/2015	72 HR WIND/WAVE FORECAST	120/576	00/12	3
0825/-----	72 HR WAVE PERIOD/SWELL DIRECTION	120/576	0000	3
0835/-----	REBROADCAST OF 0215 (SEA STATE ANALYSIS)	120/576	1200	3
-----/2025	BROADCAST SCHEDULE	120/576		
0845/2045	HIGH SEAS FORECAST (IN ENGLISH)	120/576	04/16	5

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

- MAP AREAS:
1. 5S - 50N, 55W - 125W
  2. 5S - 50N, 0W - 70W
  3. 0N - 31N, 35W - 100W
  4. 12S - 44N, 28W - 112W
  5. 7N - 31N, 35W - 98W (AREA COVERED BY TEXT FORECAST)
  6. 05N - 60N, 0W - 100W

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

Please send comments regarding the quality of these charts to:

Please send comments regarding the quality of this broadcast to:

NATIONAL HURRICANE CENTER  
 ATTN: CHIEF TAFB  
 11691 SOUTHWEST 17TH STREET  
 MIAMI, FL 33165-2149  
 PHONE: (305) 229-4454  
 FAX: (305) 553-1264  
 EMAIL: Hugh.Cobb@noaa.gov

COMMANDING OFFICER  
 USCG CAMSLANT  
 4720 DOUGLAS A. MUNRO RD.  
 CHESAPEAKE, VA 23322-2598  
 (800) 742-8519 (757)421-6240  
 CamslantCWO's@camslant.uscg.mil

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

Tropical cyclone charts also broadcast from Boston, MA

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

<http://www.nws.noaa.gov>

NWS Homepage

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

NWS Marine Page

[cell.weather.gov](http://cell.weather.gov) (WAP/WML browser required)

Cellphone page

[mobile.weather.gov](http://mobile.weather.gov)

Mobile Page

(Schedule Effective Apr 03, 2012)

(Information dated feb 03, 2012) <http://weather.noaa.gov/pub/fax/hfgulf.txt>

# BOSTON, MASSACHUSETTS, U.S.A.

CALL SIGN	FREQUENCIES	TIMES	EMISSION	POWER
NMF	4235 kHz	0230z-1039z	F3C	4 KW
	6340.5 kHz	ALL BROADCAST TIMES	F3C	4 KW
	9110 kHz	ALL BROADCAST TIMES	F3C	4 KW
	12750 kHz	1400z-2239z	F3C	4 KW

  

TIME	CONTENTS OF TRANSMISSION	RPM/IOC	VALID TIME	MAP AREA
0230/1400	TEST PATTERN	120/576		
0233/-----	PRELIMINARY SURFACE ANALYSIS	120/576	0000	1
0243/1405	BROADCAST SCHEDULE (PART 1)	120/576		
0254/1420	BROADCAST SCHEDULE (PART 2)	120/576		
0305/1433	REQUEST FOR COMMENTS	120/576		
-----/1443	PRODUCT NOTICE BULLETIN	120/576		
-----/1453	PRELIMINARY SURFACE ANALYSIS	120/576	1200	1
-----/1503	SATELLITE IMAGE	120/576	1200	5
0315/1515	WIND/WAVE ANALYSIS	120/576	00/12	8
0325/1525	SURFACE ANALYSIS (PART 1 NE ATLANTIC)	120/576	00/12	2
0338/1538	SURFACE ANALYSIS (PART 2 NW ATLANTIC)	120/576	00/12	3
0351/-----	SATELLITE IMAGE	120/576	0000	5
-----/1600	ICE CHART (REBROADCAST)	120/576	LATEST	
-----/1720	TEST PATTERN	120/576		
0402/1723	(REBROADCAST OF 0325/1525)	120/576	00/12	2
0415/1736	(REBROADCAST OF 0338/1538)	120/576	00/12	3
0428/1749	500MB ANALYSIS	120/576	00/12	4
-----/1759	SEA STATE ANALYSIS	120/576	1200	4
0438/-----	ICE CHART (REBROADCAST)	120/576	2100	
-----/1810	SPARE OR EXPERIMENTAL	120/576	????	?
0452/1824	CYCLONE DANGER AREA* or 48HR HIGH WIND/WAVES	120/576	03/15	7
0745/1900	TEST PATTERN	120/576		
0755/-----	PRELIMINARY SURFACE ANALYSIS	120/576	0600	1
0805/1905	24HR SURFACE FORECAST	120/576	00/12	8
0815/1915	24HR WIND/WAVE FORECAST	120/576	00/12	8
0825/1925	24HR 500MB FORECAST	120/576	00/12	4
0835/1935	36HR 500MB FORECAST	120/576	12/00	4
0845/1945	48HR 500MB FORECAST	120/576	00/12	4
0855/1955	48HR SURFACE FORECAST	120/576	00/12	4
0905/2005	48HR WIND/WAVE FORECAST	120/576	00/12	4
0915/2015	48HR WAVE PERIOD FORECAST	120/576	00/12	4
-----/2025	PRELIMINARY SURFACE ANALYSIS	120/576	1800	1
-----/2035	96 HR 500MB FORECAST	120/576	1200	4
-----/2045	96 HR SURFACE FORECAST	120/576	1200	4
-----/2055	96 HR WIND/WAVE FORECAST	120/576	1200	4
-----/2105	96 HR WAVE PERIOD FORECAST	120/576	1200	4
-----/2115	(REBROADCAST OF 2045)	120/576	1200	4
0925/2125	SURFACE ANALYSIS (PART 1 NE ATLANTIC)	120/576	06/18	2
0938/2138	SURFACE ANALYSIS (PART 2 NW ATLANTIC)	120/576	06/18	3
0951/2151	SATELLITE IMAGE	120/576	06/18	6
1002/2202	(REBROADCAST OF 0925/2125)	120/576	06/18	2
1015/2215	(REBROADCAST OF 0938/2138)	120/576	06/18	3
1028/2228	CYCLONE DANGER AREA* or 48HR HIGH WIND/WAVES	120/576	09/21	7
1039/2239	REBROADCAST/N American Ice Service Chart	120/576	21/21	

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

- MAP AREAS
- |                     |                     |
|---------------------|---------------------|
| 1. 28N-52N, 45W-85W | 2. 18N-65N, 10E-45W |
| 3. 18N-65N, 40W-95W | 4. 18N-65N, 10E-95W |
| 5. 20N-55N, 55W-95W | 6. EQ-60N, 40W-130W |
| 7. 05N-60N, 0W-100W | 8. 22N-51N, 40W-98W |

# BOSTON, MASSACHUSETTS, U.S.A.

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

Please send comments regarding  
the quality of these charts to:

NATIONAL WEATHER SERVICE/NOAA  
MARINE FORECAST BRANCH W/NP41  
5200 AUTH ROAD  
CAMP SPRINGS, MD 20746  
PHONE: (301) 763-8000 x 7401  
FAX: (301) 763-8085  
EMAIL: Anthony.Siebers@noaa.gov

Please send comments regarding  
the quality of this broadcast to:

COMMANDING OFFICER  
USCG CAMSLANT  
4720 DOUGLAS A. MUNRO RD.  
CHESAPEAKE, VA 23322-2598  
(800) 742-8519 (757)421-6240  
CamslantCWO's@camlant.uscg.mil

Tropical cyclone charts also broadcast from New Orleans, LA

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

<http://www.nws.noaa.gov>

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

cell.weather.gov (WAP/WML browser required)

[mobile.weather.gov](http://mobile.weather.gov)

NWS Homepage

NWS Marine Page

Cellphone page

Mobile Page

(EFFECTIVE DATE: Feb 01, 2012)

(INFORMATION DATED: Feb 03, 2012)

<http://weather.noaa.gov/pub/fax/hfmarsh.txt>

PACIFIC  
OCEAN  
BASIN



# CHARLEVILLE, AUSTRALIA

CALL SIGNS	FREQUENCIES	TIMES	EMISSION	POWER
VMC	2628 kHz	0900-1900	F3C	1 KW
VMC	5100 kHz	All Broadcast Times	F3C	1 KW
VMC	11030 kHz	All Broadcast Times	F3C	1 KW
VMC	13920 kHz	All Broadcast Times	F3C	1 KW
VMC	20469 kHz	1900-0900	F3C	1 KW

# WILUNA, AUSTRALIA

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

TIME	CONTENTS OF TRANSMISSION	RPM/IOC	VALID TIME	MAP AREA
-----/1200	Australian MSLP Prog (H+36)	120/576	1200	AUST
0015/1215	VMC/VMW Schedule Page 1 of 2	120/576		
0030/1230	VMC/VMW Schedule Page 2 of 2	120/576		
0045/-----	VMC/VMW Information Notice	120/576		
0100/-----	IPS Recommended Frequencies for VMC (Charleville))	120/576		
0130/-----	IPS RECOMMENDED FREQUENCIES FOR VMW	120/576		
-----/1245	Indian Ocean MSLP Prog (H+36)	120/576	1200	IO
-----/1315	South Pacific Ocean Total Waves (H+48)	120/576	0000	SWP
-----/1330	Indian Ocean Total Waves (H+48)	120/576	0000	IO
-----/1345	Pacific Ocean Sea Surface Temps (Weekly)	120/576	LATEST	SWP
-----/1400	Indian Ocean Sea Surface Temps (Weekly)	120/576	LATEST	IO
0200/-----	Australian MSLP Prog (H+36)	120/576	0000	AUST
-----/1415	Casey Eastern and Western High Seas (H+48)	120/576	0000	
0245/1430	Australian MSLP Anal (Manual)	120/576	00/12	AUST
0300/1500	Australian 500 hPa Anal	120/576	00/12	AUST
0315/-----	Voice Broadcast Information for VMW (Wiluna)	120/576		
-----/1515	Australian MSLP Prog (H+36)	120/576	1200	AUST
0400/-----	Australian 500 hPa (H+24) Prog	120/576	0000	AUST
0430/1530	Australian MSLP 4-day forecast, Days 1 and 2	120/576		
0445/1545	Australian MSLP 4-day forecast, Days 3 and 4	120/576		
-----/1600	Australian 500 hPa (H+24) Prog	120/576	1200	AUST
-----/1630	IPS Recommended Frequencies for VMC (Charleville)	120/576		
-----/1700	IPS Recommended Frequencies for VMW (Wiluna)	120/576		
0600/1800	Asian (Part A) Gradient Level Wind Anal (Manual)	120/576	00/12	A
0623/1823	Asian (Part B) Gradient Level Wind Anal (Manual)	120/576	00/12	B
0645/-----	Asian MSLP Anal (Manual)	120/576	0000	C
0730/1915	Indian Ocean MSLP Anal (Manual)	120/576	00/12	IO
0745/1930	Australian Wind Waves Ht(m) Prog	120/576	00/12	AUST
0800/1945	Australian Swell Waves Ht(m) Prog (H+24)	120/576	00/12	AUST
0830/-----	South Pacific Ocean MSLP Anal	120/576	0000	SWP
0845/-----	Australian MSLP Anal (Manual)	120/576	0600	AUST
0900/-----	Australian MSLP Prog (H+36) (Repeat)	120/576	0000	AUST
0915/-----	Australian MSLP 4-day forecast, Days 1 and 2 (Repeat)	120/576		
0930/-----	Australian MSLP 4-day forecast, Days 3 and 4 (Repeat)	120/576		
-----/2000	South Pacific Ocean MSLP Anal (Manual)	120/576	1200	SWP
-----/2015	Casey Eastern and Western High Seas (H+24)	120/576	1200	
-----/2030	Australian MSLP Anal (Manual)	120/576	1800	AUST
1015/-----	Casey Eastern and Western High Seas (H+24)	120/576	0000	
-----/2215	Casey Eastern and Western High Seas (H+36)	120/576	1200	
1030/2230	S.H. 500 hPa Prog (H+48)	120/576	00/12	SH
1045/2245	S.H. MSLP Prog (H+48)	120/576	00/12	SH
1100/-----	Casey Eastern and Western High Seas (H+36)	120/576	0000	
1115/2300	S.H. 500 hPa Anal	120/576	00/12	SH
-----/2315	Casey Eastern and Western High Seas (H+48)	120/576	1200	
1130/-----	Asian Sea Surface Temp Anal (Weekly)	120/576	LATEST	E
-----/2330	Australian MSLP Prog (H+36)	120/576	0000	AUST
-----/2345	Indian Ocean MSLP Prog (H+48)	120/576	1200	IO
1145/-----	VMC/VMW Information Notice	120/576		

# CHARLEVILLE & WILUNA, AUSTRALIA

TIME	CONTENTS OF TRANSMISSION	RPM/IOC	VALID TIME	MAP AREA
------	--------------------------	---------	------------	----------

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

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

FOR FURTHER INFORMATION CONTACT:

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

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

(INFORMATION DATED Nov 03, 2010) <http://www.bom.gov.au/marine/radio-sat/radio-fax-schedule.shtml>

# WELLINGTON, NEW ZEALAND

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

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

TIME	CONTENTS OF TRANSMISSION	RPM/IOC	VALID TIME	MAP AREA
0000/1200	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
0300/1500	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	06/18	TNZ
1000/2200	SOUTHWEST PACIFIC MSL ANALYSIS	120/576	06/18	SWP
1100/2300	TRANSMISSION SCHEDULE			

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

(INFORMATION DATED MAY 2002) <http://www.metservice.com/marine/radio/zklf-radiofax-schedule>



# HONOLULU, HAWAII, U.S.A.

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

TIME	CONTENTS OF TRANSMISSION	RPM/IOC	VALID TIME	MAP AREA
0519/1719	TEST PATTERN	120/576		
0524/1724	SIGNIFICANT CLOUD FEATURES	120/576	03/15	D
0535/1735	CYCLONE DANGER AREA	120/576	03/15	E
0555/1755	STREAMLINE ANALYSIS	120/576	00/12	B
0615/1815	SURFACE ANALYSIS	120/570	00/12	C
0635/1835	EAST PACIFIC GOES IR SATELLITE IMAGE	120/576	06/18	G
0649/1849	SW PACIFIC GOES IR SATELLITE IMAGE	120/576	06/18	H
0701/1901	24HR SURFACE FORECAST	120/576	00/12	A
0714/1914	48HR SURFACE FORECAST	120/576	00/12	A
0727/1927	72HR SURFACE FORECAST	120/576	00/12	A
0740/1940	WIND/WAVE ANALYSIS	120/576	00/12	B
0753/1953	24HR WIND/WAVE FORECAST	120/576	00/12	B
0806/2006	24HR WIND/WAVE FORECAST	120/576	00/12	4
0816/2016	48HR SURFACE FORECAST	120/576	00/12	1
0826/2026	48HR WIND/WAVE FORECAST	120/576	00/12	1
0836/2036	48/96HR WAVE PERIOD, SWELL DIRECTION	120/576	00/12	1
0846/2046	rebroadcast/ 96HR SURFACE FORECAST	120/576	12/12	1
0856/2056	rebroadcast/ 96HR WIND/WAVE FORECAST	120/576	12/12	1
0906/2106	PACIFIC GOES IR SATELLITE IMAGE	120/576	06/18	5
0917/2117	SURFACE ANALYSIS (PART 1 NE PACIFIC)	120/576	06/18	2
0930/2130	SURFACE ANALYSIS (PART 2 NW PACIFIC)	120/576	06/18	3
0943/2143	TROPICAL GOES IR SATELLITE IMAGE	120/576	06/18	Y
0954/2154	TROPICAL SURFACE ANALYSIS	120/576	06/18	Z
1008/2208	24HR TROPICAL WIND/WAVE FORECAST	120/576	00/12	Z
1042/2242	CYCLONE DANGER AREA	120/570	09/21	E
1102/2302	48HR WIND/WAVE FORECAST	120/576	00/12	B
1115/2315	72HR WIND/WAVE FORECAST	120/576	00/12	B
1128/2328	SEA SURFACE TEMPS	120/576	LATEST	F
1141/2341	rebroadcast 24HR WIND/WAVE FORECASTS	120/576	00/12	B
1154/2354	STREAMLINE ANALYSIS	120/576	06/18	B
1214/0014	SURFACE ANALYSIS	120/576	06/18	C
1234/0034	EAST PACIFIC GOES IR SATELLITE IMAGE	120/576	12/00	G
1248/0048	SW PACIFIC GOES IR SATELLITE IMAGE	120/576	12/00	H
1300/0100	SCHEDULE PART I	120/576		
1320/0120	SCHEDULE PART II	120/576		
1340/0140	SYMBOLS OR PRODUCT NOTICE BULLETIN	120/576		
1400/0200	24HR TROPICAL SURFACE FORECAST	120/576	00/12	Z
1410/0210	48HR TROPICAL SURFACE FORECAST	120/576	00/12	Z
1420/0220	72HR TROPICAL SURFACE FORECAST	120/576	00/12	Z
1430/0230	48/72HR TROPICAL WAVE PERIOD, SWELL DIR	120/576	00/00	Z
1440/0240	TROPICAL SEA STATE ANALYSIS	120/576	12/00	Z
1450/0250	rebroadcast 24HR TROPICAL WIND/WAVE FORECASTS	120/576	00/12	Z
1500/0300	48HR TROPICAL WIND/WAVE FORECAST	120/576	00/12	Z
1510/0310	72HR TROPICAL WIND/WAVE FORECAST	120/576	00/12	Z
1520/0320	rebroadcast/SEA STATE ANALYSIS	120/576	00/00	1
1530/0330	SURFACE ANALYSIS(PART 1 NE PAC)	120/576	12/00	2
1543/0343	SURFACE ANALYSIS(PART 2 NW PAC)	120/576	12/00	3
1556/0356	TROPICAL SURFACE ANALYSIS	120/576	12/00	Z

## MAP AREAS:

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

# HONOLULU, HAWAII, U.S.A.

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

THE SIGNIFICANT CLOUD FEATURES CHARTS DEPICT CLOUD FEATURES BASED UPON IMAGES FROM THE VARIOUS GEOSTATIONARY AND POLAR ORBITING SATELLITES OVER THE PACIFIC. ABBREVIATIONS ON THESE CHARTS INCLUDE: AC - ALTOCUMULUS; AS - ALTOSTRATUS; BKN - BROKEN; CB - CUMULONIMBUS; CC - CIRROCUMULUS; CI - CIRRUS; CS - CIRROSTRATUS; CU - CUMULUS; FEW - FEW; ISOL - ISOLATED; LYRS - LAYERS; NS - NIMBOSTRATUS; OVC - OVERCAST; SC - STRATO-CUMULUS; SCT - SCATTERED; TCU - TOWERING CUMULUS; TSTM - THUNDERSTORM

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

YOU MAY ADDRESS COMMENTS ABOUT THIS BROADCAST TO:

Meteorologist In Charge  
National Weather Service  
2525 Correa Rd.  
Honolulu, HI 96822  
PHONE: (808) 973-5270/FAX: (808) 973-5281  
E-Mail [norman.hui@noaa.gov](mailto:norman.hui@noaa.gov)

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

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

<a href="http://www.nws.noaa.gov">http://www.nws.noaa.gov</a>	NWS Homepage
<a href="http://www.nws.noaa.gov/om/marine/home.htm">http://www.nws.noaa.gov/om/marine/home.htm</a>	NWS Marine Page
<a href="http://cell.weather.gov">cell.weather.gov</a> (WAP/WML browser required)	Cellphone page
<a href="http://mobile.weather.gov">mobile.weather.gov</a>	Mobile Page

(SCHEDULE EFFECTIVE Nov 03, 2008)  
(INFORMATION DATED JAN 24, 2011)

<http://weather.noaa.gov/pub/fax/hfhi.txt>

EUROPE



# ATHENS, GREECE

CALL SIGN	FREQUENCY	TIMES	EMISSION	POWER
SVJ4	4481 kHz		F3C	8 KW
SVJ4	8105 kHz		F3C	8 KW

  

TIME	CONTENTS OF TRANSMISSION	RPM/IOC	VALID TIME	MAP AREA
0845	SURFACE ANALYSIS	120/576	0600	A
0857	SURFACE PROG (H+24)	120/576	0600	A
0909	SURFACE PROG (H+48)	120/576	0600	A
0921	WAVE HEIGHT PROG (H+30)	120/576	1800	B
0933	WAVE HEIGHT PROG (H+36)	120/576	0000	B
0945	WAVE HEIGHT PROG (H+42)	120/576	0600	B
0957	WAVE HEIGHT PROG (H+48)	120/576	1200	B
1009	WAVE HEIGHT PROG (H+30)	120/576	1800	C
1021	WAVE HEIGHT PROG (H+36)	120/576	0000	C
1033	WAVE HEIGHT PROG (H+42)	120/576	0600	C
1044	WAVE HEIGHT PROG (H+48)	120/576	1200	C

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

(INFORMATION DATED (03/2007))

# MURMANSK, RUSSIA

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

  

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

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

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

(INFORMATION DATED 11/97)

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.

# HAMBURG/PINNEBERG, GERMANY

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

TIME	CONTENTS OF TRANSMISSION	RPM/IOC	VALID TIME	MAP AREA
-----/1520	Ice conditions chart West Baltic Sea or special area	120/576	0900	
-----/1540	Ice conditions chart European Arctic Sea or special area	120/576	0900	
0430/1600	Surface weather chart	120/576	00/12	
0512/-----	h + 30 (GME ) surface pressure	120/576	1800	
0525/1800	surface pressure analysis, arrows showing the movement of pressure systems, significant weather, ice	120/576	00/12	
0546/1821	Information of tropical storms, North Atlantic (during the season )	120/576	03/15	
-----/1834	H+24 (GME) surface pressure	120/576	1200	
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	
0638/-----	H + 36, H + 48 (GME) 850 hPa H + T, 700 hPa U	120/576	0000	
0651/-----	H + 60, H + 72 (GME) 500 hPa H + T, surface P	120/576	0000	
0704/-----	H + 60, H + 72 (GME) 850 hPa H + T, 700 hPa U	120/576	0000	
0717/-----	Repetition chart 0512 UTC	120/576	1800	
0730/1847	H+48 (GME) surface pressure	120/576	00/12	
0743/-----	Repetition chart 0525 UTC	120/576	0000	
0804/1900	H+84 (GME) surface pressure	120/576	00/12	
0817/-----	H+108 (GME) surface pressure	120/576	0000	
0830/1913	H+24 (GSM) Sea and swell, wind direction, direction of swell	120/576	00/12	
0842/1926	H+48 (GSM) Sea and swell, wind direction, direction of swell	120/576	00/12	
0854/1939	H+72 (GSM) Sea and swell, wind direction, direction of swell	120/576	00/12	
0906/-----	H+96 (GSM) Sea and swell, wind direction, direction of swell	120/576	0000	
0930/2100	Ice conditions chart Northwest Atlantic	120/576	00/12	
0945/-----	Sea surface temperature North Sea	120/576	0000	
1007/2115	Ice conditions chart West Baltic Sea	120/576	00/15	
1029/2136	H+48 wave prediction North Atlantic	120/576	00/12	
1050/2200	Surface weather chart	120/576	06/18	
1111/-----	Transmission schedule	120/576		
1132/-----	Test chart	120/576		
1145/-----	Repetition chart 1050 UTC	120/576	0600	
1205/-----	Repetition chart 0512 UTC	120/576	1800	
1220/-----	Repetition chart 0730 UTC	120/576	0000	

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 (032010)

[http://www.dwd.de/bvbw/generator/DWDWWW/Content/Schiffahrt/Sendeplan/broadcast\\_fax\\_032010,templateId=raw,property=publicationFile.pdf/broadcast\\_fax\\_032010.pdf](http://www.dwd.de/bvbw/generator/DWDWWW/Content/Schiffahrt/Sendeplan/broadcast_fax_032010,templateId=raw,property=publicationFile.pdf/broadcast_fax_032010.pdf)

# NORTHWOOD, UNITED KINGDOM

CALL SIGNS	FREQUENCIES	TIMES	EMISSION	POWER
GYA	2618.5 kHz	2000-0600 UTC	F3C	10 KW
GYA	4610 kHz	ALL BROADCAST TIMES	F3C	10 KW
GYA	8040 kHz	ALL BROADCAST TIMES	F3C	10 KW
GYA	11086.5 ? kHz	0600-2000 UTC	F3C	10 KW

0000/1200	SURFACE ANALYSIS	120/576	18/06
0012/1212	24 HOUR SURFACE PROGNOSIS	120/576	18/06
0024/1224	24 HOUR 850 hPA WBPT / PPTN	120/576	18/06
0036/1236	24 HOUR OAT and TD	120/576	18/06
0048/1248	SHIP ICE ACCRETION	120/576	12/00
0100/1300	SCHEDULE	120/576	
0112/-----	SYMBOLOLOGY	120/576	
0124/-----	QSL REPORT	120/576	
0136/1336	OCEAN FRONTS	120/576	
0148/1348	300 hPA GPH	120/576	18/06
0236/-----	SURFACE ANALYSIS	120/576	0000
-----/1400	SEA SURFACE TEMP	120/576	0000
0300/1436	SURFACE ANALYSIS	120/576	00/12
0400/1500	SURFACE ANALYSIS	120/576	00/12
-----/1512	24 HOUR ANPS PROGNOSIS	120/576	0000
-----/1524	120 HOUR ANPS PROGNOSIS	120/576	0000
-----/1600	SURFACE ANALYSIS	120/576	1200
0412/1612	24 HOUR OAT and TD	120/576	00/12
0424/1624	24 HOUR 850 hPA WBPT / PPTN	120/576	00/12
0436/1636	24 HOUR SURFACE PROGNOSIS	120/576	00/12
0448/1648	SCEXA TAFS	120/576	06/18
0500/1700	SURFACE ANALYSIS	120/576	00/12
0512/1712	24 HOUR SURFACE PROGNOSIS	120/576	00/12
0524/1724	48 HOUR SURFACE PROGNOSIS	120/576	00/12
0536/1736	SCEXA TAFS	120/576	06/18
0600/-----	NWEXAS TAF COLLECTIVE	120/576	
0612/1800	SURFACE ANALYSIS	120/576	00/12
-----/1812	24 HOUR SURFACE PROGNOSIS	120/576	1200
-----/1824	NWEXAS TAF COLLECTIVE	120/576	
0648/1848	SCEXA TAFS	120/576	07/19
-----/1900	THICKNESS/GPH ANALYSIS	120/576	1200
0712/1912	24 HOUR SIGNIFICANT WINDS	120/576	00/12
0724/1924	48 HOUR SURFACE PROGNOSIS	120/576	00/12
0736/1936	72 HOUR SURFACE PROGNOSIS	120/576	00/12
0748/1948	96 HOUR SURFACE PROGNOSIS	120/576	00/12
0800/2012	120 HOUR SURFACE PROGNOSIS	120/576	00/12
0812/-----	THICKNESS/GPH ANALYSIS	120/576	0000
0824/2024	48 HOUR SIGNIFICANT WINDS	120/576	00/12
0836/2036	72 HOUR SIGNIFICANT WINDS	120/576	00/12
0848/2048	96 HOUR SIGNIFICANT WINDS	120/576	00/12
0900/2100	SURFACE ANALYSIS	120/576	06/18
0912/2112	THICKNESS/GPH ANALYSIS	120/576	00/12
0924/2124	24 HOUR THICKNESS / GPH PROGNOSIS	120/576	00/12
0936/2136	24 HOUR 850 hPa SPOT WINDS	120/576	00/12
0948/2148	24 HOUR 700 hPa SPOT WINDS	120/576	00/12
1000/2200	SURFACE ANALYSIS	120/576	06/18
1012/2212	24 HOUR SURFACE PROGNOSIS	120/576	06/18
1024/2224	24 HOUR REDUCED VISIBILITY	120/576	06/18
1036/2236	24 HOUR 850 hPa WBPT / PPTN	120/576	06/18
1048/2248	24 HOUR OAT and TD	120/576	06/18
1100/-----	SURFACE ANALYSIS	120/576	0600
1112/-----	24 HOUR SURFACE PROGNOSIS	120/576	0600
1124/2336	24 HOUR SEA and SWELL	120/576	06/18
1136/-----	24 HOUR THICKNESS / GPH PROGNOSIS	120/576	0000

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

GPH	Geopotential Height
OAT	Outside Air Temperature
PPTN	Precipitation
SCEXAS TAFS	South Coast Exercise Areas Terminal Aerodrome Forecasts
TD	Dewpoint Temperature
WBPT	Wet Bulb Potential Temperature





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

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

## Marine Text Forecasts and Products

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

## Explanation of Codes Used in Various Marine Text Forecasts and Weather Broadcasts:

- [Valid Time Event Code](#)
- [Universal Geographic Code \(UGC\)](#)
- [MAFOR](#)
- [Ships Synoptic Code \(BBXX\)](#)
- [MARS](#)
- [MAROB](#)
- [NOAA Weather Radio SAME Codes](#)
- [XML, CAP, RSS](#)
- [General Text Specification for Weather Products](#)
- [How to read the Hurricane Forecast/Advisory \(TCM\), More](#)
- Others (coming...check back)

## Marine Graphic Forecasts and Products

Graphic marine forecasts are produced by NWS for broadcast via **radiofax** <http://www.nws.noaa.gov/om/marine/radiofax.htm> and also made available via the Internet at **Marine Radiofax Charts** <http://weather.noaa.gov/fax/marine.shtml>.

The National Weather Service also plans to make available marine forecast data in gridded and vector formats for display on electronic charts and use by other value-added applications. Graphics using these data are available via the Internet for most U.S. coastal areas. Also see **Computer Generated Model Guidance** below.

## Satellite and RADAR Imagery

Satellite imagery may be found on the **GOES webpage** <http://www.goes.noaa.gov/>, and is also available from **NASA** <http://rsd.gsfc.nasa.gov/goes/>. Ocean surface winds and other data derived from polar orbiting and geostationary satellites may be found on **NOAA's Marine Observing Systems Team Homepage** <http://manati.orbit.nesdis.noaa.gov/> and **NOAA's Coastwatch Homepage** <http://coastwatch.noaa.gov/>. Information and links to Sea Surface Temperature Charts and Gulf Stream charts may be found on our **FAQ** <http://www.nws.noaa.gov/om/marine/faq.htm> webpage. **NEXRAD Doppler Radar images** [http://radar.weather.gov/Conus/index\\_lite.php](http://radar.weather.gov/Conus/index_lite.php) are available on the Internet on the **NWS Homepage** <http://www.nws.noaa.gov/> and local **NWS Forecast Offices** [http://www.nws.noaa.gov/om/marine/marine\\_map.htm](http://www.nws.noaa.gov/om/marine/marine_map.htm) homepages. NEXRAD Doppler Radar images may also be found on local cable channels and the webpages of local media including TV stations, radio stations and newspapers as well as others.

## Ice Analysis, Forecasts and Iceberg Reports

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

## Computer Generated Model Guidance

Computer generated model guidance products used by marine forecasters is available from the **Ocean Modeling Branch** <http://polar.ncep.noaa.gov/>, **National Centers for Environmental Prediction** <http://www.ncep.noaa.gov/>, the **Environmental Modeling Center** <http://www.emc.ncep.noaa.gov/>, the "Operational Forecast System" Model Guidance from the National Ocean Service <http://tidesandcurrents.noaa.gov/models.html>, and the Great Lakes Coastal Forecasting System (GLCFS) <http://www.glerl.noaa.gov/res/glcfs/>.

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

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

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

## Marine Climatological Information

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

The National Geospatial-Intelligence Agency now makes available some of its **Pilot Charts** <http://msi.nga.mil/NGAPortal/MSI.portal> on-line.

## Foreign Marine Forecasts

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

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

Also try **the Naval Oceanography Portal** <http://www.usno.navy.mil/> for data which is outside the area of U.S. marine forecast responsibility.

## WEBCAMS

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

## Buoy and Other Real-Time Observations

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

NOAA's Forecast Systems Laboratory (FSL) offers a **Display of Surface Data** [http://madis.noaa.gov/sfc\\_display/](http://madis.noaa.gov/sfc_display/) from several government, commercial and voluntarily operated mesonets as well as observations of those of the **Voluntary Observing Ship (VOS) Program** <http://www.vos.noaa.gov/> and data buoys. A variety of marine observations may also be viewed on the **National Ocean Service's nowCOAST Web Portal (BETA)** <http://co-ops.nos.noaa.gov/nowcoast.html/>.

For mariners with a low speed Internet connection..... The latest buoy or C-MAN data may be retrieved via the Internet as in the following example where 44017 refers to buoy #44017.

[http://www.ndbc.noaa.gov/mini\\_station\\_page.php?station=44017](http://www.ndbc.noaa.gov/mini_station_page.php?station=44017)

## Tide Predictions, Observations and Storm Surge Forecasts

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

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

Experimental, computer generated, **Extratropical Water Level Forecasts** <http://www.nws.noaa.gov/mdl/etsurge/> are available from the National Weather Service's **Meteorological Development Laboratory** <http://www.nws.noaa.gov/mdl/>. Status maps are provided to give the user a quick overview of a region. Forecasts of storm surge produced as a result of a tropical storm or hurricane are available from your **local NWS Forecast Office** <http://www.weather.gov/organization.php>.

The **"Operational Forecast System" Model Guidance from the National Ocean Service** <http://tidesandcurrents.noaa.gov/models.html/> have been created to provide the maritime community with improved short-term predictions of water levels. *Please be advised that these predictions are based on a hydrodynamic model and, as such, should be considered as computer-generated forecast guidance.*

## For Emergency Responders and Planners

**NOAA's Office of Response and Restoration, National Ocean Service** <http://response.restoration.noaa.gov/index.php>, offers a series of job aids and software to predict weather and ocean affects on the trajectory of hazardous materials such as oil spills. The information may be helpful for further applications as well.

## Historic Weather Forecasts, Satellite Images and Oceanographic Data

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

## Voluntary Observations from Mariners

All NWS marine forecasts rely heavily on the **Voluntary Observing Ship (VOS)** <http://www.vos.noaa.gov/> program for obtaining meteorological observations. Ship observations may also be found on the **NOAA's Forecast Systems Laboratory (choose maritime)** [http://madis.noaa.gov/sfc\\_display/](http://madis.noaa.gov/sfc_display/), **CoolWX** <http://coolwx.com/buoydata/>, and **SailWX.info** <http://www.sailwx.info>, **Oceanweather** <http://www.oceanweather.com/data/index.html> webpages.

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

## Marine Webpages

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

## Marine Weather Publications On the Web

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

## Internet Access for Mariners

Internet at sea can be problematic unless you stay within cellular telephone range of shore. The maximum speed for cellular telephones is typically 14.4 Kbaud, however, a number of cellular service providers are now offering enhanced services with speeds in the range of 56 Kbaud - 144 Kbaud. Terrestrial wireless Internet services such as those provided by **GoAmerica**, **TeleSea**, and **Motient**, are beginning to become available, however, these provide limited maritime coverage. These companies may employ "Marine WIFI" technology which is rapidly becoming popular at marinas and in favorite harbor areas. Satellite services including **Inmarsat**, **Iridium**, **Globalstar**, **Thuraya**, **Emsat**, **ACeS**, **tracNet/DirecPC**, **Mobile Satellite Ventures**, **Boatracs**, **Orbcomm**, **Digital Seas International**, and **MTN** are available, however, costs are generally greater. Several companies offer e-mail services designed to optimize satellite connectivity including **MAILASAIL**, **MarineNet**, **OCENS**, **Telaurus**, **UUPLUS** and **XGate**. Full Internet access is often available if you have a satellite terminal onboard, but presently unless you restrict your use to e-mail messages, costs can be high. A number of satellite services such as Inmarsat-C offer e-mail messaging services only and provide no access to the World Wide Web. Several transmission and data compression schemes are available and in development to make the Web more accessible to the mariner. There are also several public FTP-to-EMAIL and WWW-to-EMAIL servers available to allow Internet access for users who do not have direct or cost effective access to the World Wide Web but who are equipped with an e-mail system. See <http://www.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.

If you have an HF marine radio, E-mail service is available from companies such as Sailmail, SeaMail, CruiseEmail, Global Marine Networks, MarineNet Wireless, Kielradio, Globe Wireless and Mobile Marine Radio (WLO)/Telaurus. E-mail can be accomplished at no cost using **amateur radio** <http://www.nws.noaa.gov/om/marine/ham.htm>.

The domain of the Internet is rapidly expanding to now include wireless devices such as so-called "Internet-Ready" digital cellular phones and Personal Data Assistants (PDAs). These offer great potential for making marine forecasts available to coastal mariners, who have limited other options available. The majority of these other options are by voice where there is always the possibility of misunderstanding.

A webpage for the most popular marine text forecasts compatible with many PDA's may be found at <http://www.nws.noaa.gov/om/marine/marinewxi.htm>.

Visit <http://www.nhc.noaa.gov/aboutwap.shtml> where you will find NHC/TPC's wireless web page. There you can find the link to obtain NHC/TPC's most popular hurricane products, offshore forecasts, and high seas forecasts.

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

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

A number of Cellular service providers are beginning to offer value-added Internet-like services which provide access to NOAA tide data, marine forecasts, and other items of interest to the wireless customer. These require a digital phone with some of the more advanced features. See your Cellular service provider for details. There may be a nominal fee required for using these services.

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

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

Send an e-mail to: [ftpmail@ftpmail.nws.noaa.gov](mailto:ftpmail@ftpmail.nws.noaa.gov)

Subject line: Put anything you like

Body: help

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

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

## Internet Broadcasts

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

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

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

## Directories of NWS Marine Forecasts

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

<http://weather.noaa.gov/pub/data/forecasts/marine/>

<ftp://tgftp.nws.noaa.gov/data/forecasts/marine/>

<http://weather.noaa.gov/pub/data/raw/>

<ftp://tgftp.nws.noaa.gov/data/raw/>

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

<http://www.weather.gov/data/>

<http://www.srh.noaa.gov/data>

<http://www.weather.gov/view/validProds.php>

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

<http://weather.noaa.gov/pub/fax/>

<ftp://tgftp.nws.noaa.gov/fax/>

## Change Notices

For details on changes to NWS products, visit the **Office of Climate, Water, and Weather Services Service Change Notifications** <http://www.nws.noaa.gov/om/notif.htm>, the **Requirements and Change Management Status page** <http://www.nws.noaa.gov/om/cm/status.html>, and **NWS Telecommunication Operations Center (TOC) Data Management Change Notices** <http://www.nws.noaa.gov/datamgmt/notices.shtml> webpages. See <http://www.nws.noaa.gov/om/marine/recent.htm> for a summary of recent changes of most interest to mariners and coastal residents.



# NATIONAL WEATHER SERVICE INTERNET SITES

NWS Homepage	<a href="http://www.nws.noaa.gov">http://www.nws.noaa.gov</a>
NWS Marine Forecasts	<a href="http://www.nws.noaa.gov/om/marine/home.htm">http://www.nws.noaa.gov/om/marine/home.htm</a>
NWS Marine Text Products	<a href="http://www.nws.noaa.gov/om/marine/home.htm#text">http://www.nws.noaa.gov/om/marine/home.htm#text</a>
NWS Marine Radiofax Products	<a href="http://weather.noaa.gov/fax/marine.shtml">http://weather.noaa.gov/fax/marine.shtml</a>
NWS Voluntary Observing Ship Program	<a href="http://www.vos.noaa.gov">http://www.vos.noaa.gov</a>
AMVER/SEAS Homepage	<a href="http://seas.amverseas.noaa.gov/seas/">http://seas.amverseas.noaa.gov/seas/</a>

# U.S. NAVY AND OTHER WEATHER INTERNET SITES

See these sites for further links

Naval Oceanography Portal	<a href="http://www.usno.navy.mil/">http://www.usno.navy.mil/</a>
International Ice patrol	<a href="http://www.navcen.uscg.gov/?pageName=IIPHome">http://www.navcen.uscg.gov/?pageName=IIPHome</a>
National Ice Center	<a href="http://www.natice.noaa.gov">http://www.natice.noaa.gov</a>
WMO Homepage	<a href="http://www.wmo.ch">http://www.wmo.ch</a>
JCOMM GMDSS	<a href="http://weather.gmdss.org/">http://weather.gmdss.org/</a>
USCG Maritime Telecommunications	<a href="http://www.navcen.uscg.gov/?pageName=maritimeTelecomms">http://www.navcen.uscg.gov/?pageName=maritimeTelecomms</a>



## APPENDIX B

# FTPMAIL INSTRUCTIONS

National Weather Service marine text forecasts, radiofax charts and buoy observations are available via e-mail. Further, FTPMAIL may be used to acquire any file on the tgftp.nws.noaa.gov FTP server. The FTPMAIL server is intended to allow Internet access for mariners and other users who do not have direct access to the World Wide Web but who are equipped with an e-mail system. Turnaround is generally in under one hour, however, performance may vary widely and receipt cannot be guaranteed.

This PDF file contains links to http pages and FTPMAIL commands. The links may not be compatible with all PDF readers and e-mail systems. The Internet is not part of the National Weather Service's operational data stream and should never be relied upon as a means to obtain the latest forecast and warning data. Become familiar with and use other means such as NOAA Weather Radio to obtain the latest forecasts and warnings. Please read our ***disclaimer*** <http://www.nws.noaa.gov/disclaimer.php>.



FTPMAIL help file

\*\*\*\*\*

\* WARNING \*

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

\* (Reference Public Law 99-474)

\* For Help contact:

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

\*\*\*\*\*

\*\*\*\* IMPORTANT NOTICES \*\*\*\* Read these notes carefully \*\*\*\*

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

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

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

This "help" file contains a detailed description of the FTPMAIL system and available products. To obtain another copy of the FTPMAIL "help" file:

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

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

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

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

NOTICE - Check time and date of forecasts. Downloaded data may not represent the latest forecast. The Internet is not part of the National Weather Service's operational data stream and should never be relied upon as a means to obtain the latest forecast and warning

data. Become familiar with and use other means such as NOAA Weather Radio to obtain the latest forecasts and warnings. Please read our disclaimer at <http://www.nws.noaa.gov/disclaimer.php>

Although these instructions are tailored for marine users to gain access to graphic(radiofax) and text products via e-mail, all publicly available data on the [tgftp.nws.noaa.gov](http://tgftp.nws.noaa.gov) Internet FTP server is accessible using the FTPMAIL service.

To use FTPMAIL, the user sends a small script file via e-mail to NWS requesting the desired file(s). A list of available product directories, retrievable via FTPMAIL is shown below.

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. If your e-mail system does not UUENCODE automatically, you will get back a bunch of gibberish starting with something like "begin 600 PWAE98.TIF" See your system administrator if you have any questions on this topic. UUdecode freeware and shareware may also be found on the Web, but the easier solution is to try a different e-mail system if that option is open to you. 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@ftpmail.nws.noaa.gov](mailto:ftpmail@ftpmail.nws.noaa.gov)
- o Put anything you like on the subject line
- o Enter a command script in the body of the message

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

Example scripts are:

help

Connect to default\_site ([tgftp.nws.noaa.gov](http://tgftp.nws.noaa.gov)) and send back this help file to e-mail address of requestor

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

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

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

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

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

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

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

Connect to default\_site (tgftp.nws.noaa.gov) and send back the contents of the top level directory to captain.kidd@noaa.gov

```
open
cd fax
get ftpcmd.txt (List of FTPMAIL commands)
get rfaxtif.txt (TIFF suggestions)
get rfaxatl.txt (Atlantic radiofax file directory)
get rfaxpac.txt (Pacific radiofax file directory)
get rfaxmex.txt (Gulf of Mexico and Trop Atl radiofax file dir)
get rfaxak.txt (Alaska radiofax and ice file directory)
get rfaxhi.txt (Hawaii radiofax file directory)
get otherfax.txt (Foreign charts file directory)
get marine1.txt (Highseas,Offshore,Open Lakes,NAVTEX text file dir)
get marine2.txt (Hurricane text file directory)
get marine3.txt (Coastal forecasts text file directory)
get marine4.txt (Offshore forecasts by zone directory)
get marine5.txt (Atlantic coastal forecasts by zone directory)
get marine6.txt (Pacific coastal forecasts by zone directory)
```

```
get marine7.txt      (Gulf of Mexico coastal forecasts by zone dir)
get marine8.txt      (Great Lakes coastal forecasts by zone directory)
get marine9.txt      (Alaska coastal forecasts by zone directory)
get marine10.txt     (Hawaii&Trust coastal forecasts by zone directory)
get uk.txt           (UK marine forecasts from Bracknell directory)
get canada.txt       (Canadian marine text forecast directory)
get tsunami.txt     (Tsunami products directory)
get buoydata.txt    (Buoy and C-MAN station observations directory)
get robots.txt      (Marine forecasts and info via e-mail systems)
quit
```

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

Many, but not all National Weather Service forecast products may be obtained using FTPMAIL if the WMO/AWIPS Header is known as follows.

Example:

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

```
Send an e-mail to:      ftpmail@ftpmail.nws.noaa.gov
Subject Line:           Put anything you like
Body:                   open
                        cd data
                        cd raw
                        cd fz
                        get fznt01.kwbc.hsf.atl.txt
                        quit
```

\*\*\*\*\*SPECIAL NOTES\*\*\*\*\*

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

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

Make certain you have not enabled any auto-reply function in your email system.

If you see the following response and believe your script to be correct, the most likely problem is that you are sending your e-mail in HTML format rather than the required plain text format.

```
<FTP EMAIL> response
ftpmail has failed to queue your request with an error of:
    Must have an 'open [site [user [pass]]]'
```

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

Problems have been reported by users of Hotmail. (This may now be fixed)

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



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

FTPMAIL problems are occasionally encountered when embedded control characters are received within the e-mail message received by the FTPMAIL server. These control characters may be introduced by the user's e-mail system and may be unavoidable.

Also be certain that each of your commands does not have any leading and/or trailing space(s) or you may see an error message with a number of statements saying "=20"

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

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

\*\*\*\*\*

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

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

<a href="http://www.nws.noaa.gov">http://www.nws.noaa.gov</a>	NWS Homepage
<a href="http://www.nws.noaa.gov/om/marine/home.htm">http://www.nws.noaa.gov/om/marine/home.htm</a>	NWS Marine Page
<a href="http://cell.weather.gov">cell.weather.gov</a> (WAP/WML browser required)	Cellphone page
<a href="http://mobile.weather.gov">mobile.weather.gov</a>	Mobile Page

Author: Marine and Coastal Weather Services Branch, W/OS21  
National Weather Service  
Last Modified Dec 08, 2010  
Document URL: <http://weather.noaa.gov/pub/fax/ftpmail.txt>  
<ftp://tgftp.nws.noaa.gov/fax/ftpmail.txt>

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

\*\*\*\* IMPORTANT NOTICES \*\*\*\*

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

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

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

FTP's files and sends them back via electronic mail

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

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

To use FTPMAIL:

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

Example scripts are:

```
reply-to lmjm@server.big.ac.uk
```

```
open
dir
quit
```

Connect to default\_site (tgftp.nws.noaa.gov) and send back the contents of the top level directory to lmjm@server.big.ac.uk

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

Connect to default\_site (tgftp.nws.noaa.gov) and send back the chart file PWAG01.TIF to e-mail address of requestor

>>Valid commands to the ftpmail gateway are:

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

>>Followed by one of:

help Just send back help

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

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

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

cd pathname Change directory.  
cd .. Move up 1 directory.  
cd / Move to the root directory.

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

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

get pathname Get a file and email it back.

compress Compress files/dir-listings before emailing back

gzip Gzip files/dir-listings before emailing back

uuencode These are mutually exclusive options for  
btoa converting a binary file before emailing.  
(Default is uuencode.)

force uuencode Force all files or directory listings to  
force btoa be encoded before sending back.  
There is no default.

mime Send the message as a Mime Version 1.0 message.  
Text will be sent as text/plain charset=US-ASCII  
Non-text as application/octet-stream.  
If the file is splitup then it will be sent  
as a message/partial.

force mime As mime but force text files to be sent as  
application/octet-stream

no [compress|gzip|uuencode|btoa|mime]  
Turn the option off.

size num[K|M] Set the max size a file can be before it  
is split up and emailed back in parts to  
the given number of Kilo or Mega bytes.  
This is limited to 275KB. Default is 275KB.

mode binary Change the mode selected for the get

mode ascii                    command. Defaults to binary.  
quit                         End of input - ignore any following lines.

Author: Marine and Coastal Weather Services Branch, W/OS21  
National Weather Service  
Last Modified Sep 12, 2008  
Document URL: <http://weather.noaa.gov/pub/fax/ftpcmd.txt>  
<ftp://tgftp.nws.noaa.gov/fax/ftpcmd.txt>

## Suggested TIFF Viewers

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

### Commercial Viewers for DOS/Windows 3.1

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

### Shareware viewers for DOS/Windows 3.1

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

### Shareware viewers for OS/2

PMJPEG  
PMView v0.9

### Shareware viewer for Apple/MAC

GraphicConverter 2.6  
All programs that support Quicktime 6.0+  
Netscape 7.0 (Free)  
Internet Explorer 5.1 (Free)  
Eudora Pro 4.2 (shareware)  
PictureViewer QT 6.0 (Free included with Macs)  
Graphic Converter 3.6 - 4.x (shareware)  
Canvas 7.0 +  
Photoshop Elements 2.0 (Free with Wacom Tablets etc.)  
Photoshop 6.0 +  
Canon file viewer utility 1.3.2.9 (included with Canon Digital cameras)  
Media Assistant 2.0.4 (image cataloger) Low cost  
Cumulus 5.5 (Image Cataloger) Low cost

Author: Marine and Coastal Weather Services Branch, W/OS21

National Weather Service

Last Modified Aug 27, 2008

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

<ftp://tgftp.nws.noaa.gov/fax/rfaxtif.txt>

NATIONAL WEATHER SERVICE RADIOFAX PRODUCTS  
for the Western Atlantic Ocean

\*\*\*\* IMPORTANT NOTICES \*\*\*\*

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

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

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

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

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

\*\*\*\*\*

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

Assigned frequencies 4235.0, 6340.5, 9110, 12750 kHz

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

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

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

.TIF files now also available as .gif files

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

Example using FTPMAIL:

Send an e-mail to: ftpmail@ftpmail.nws.noaa.gov  
Subject line: Put anything you like  
Body: open  
cd fax  
get PPAE10.TIF

get PWAE98.gif  
quit

	<u>FILE</u>
<u>WIND/SEAS CHARTS</u>	<u>NAME</u>
12Z Sea State Analysis, 10E-95W Northern Hemisphere	<a href="#">PJAA99.TIF</a>
00Z Wind/Wave Analysis, 40W-98W Northern Hemisphere	<a href="#">PWAA88.TIF</a>
12Z Wind/Wave Analysis, 40W-98W Northern Hemisphere	<a href="#">PWAA89.TIF</a>
Wind/Wave Analysis, (Most Current)	<a href="#">PWAA90.TIF</a>
24HR Wind/Wave Chart VT00Z Forecast 40W-98W N. Hemisphere	<a href="#">PWAE98.TIF</a>
24HR Wind/Wave Chart VT12Z Forecast 40W-98W N. Hemisphere	<a href="#">PWAE99.TIF</a>
24HR Wind/Wave Chart Forecast (Most Current)	<a href="#">PWAE10.TIF</a>
48HR Wind/Wave VT00Z Forecast 10E-95W Northern Hemisphere	<a href="#">PJAI98.TIF</a>
48HR Wind/Wave VT12Z Forecast 10E-95W Northern Hemisphere	<a href="#">PJAI99.TIF</a>
48HR Wind/Wave Chart Forecast (Most Current)	<a href="#">PJAI10.TIF</a>
48HR Wave Period VT00Z Forecast 10E-95W Northern Hemisphere	<a href="#">PJAI88.TIF</a>
48HR Wave Period VT12Z Forecast 10E-95W Northern Hemisphere	<a href="#">PJAI89.TIF</a>
48HR Wave Period Chart Forecast (Most Current)	<a href="#">PJAI20.TIF</a>
96HR Wind/Wave Chart VT12Z Forecast 10E-95W N. Hemisphere	<a href="#">PJAM98.TIF</a>
96HR Wave Period VT12Z Forecast 10E-95W N. Hemisphere	<a href="#">PJAM88.TIF</a>
 <u>SURFACE CHARTS</u>	
00Z Preliminary Surface Chart Analysis 45W-85W N. Hemisphere	<a href="#">PYAA10.TIF</a>
06Z Preliminary Surface Chart Analysis 45W-85W N. Hemisphere	<a href="#">PYAB01.TIF</a>
12Z Preliminary Surface Chart Analysis 45W-85W N. Hemisphere	<a href="#">PYAC01.TIF</a>
18Z Preliminary Surface Chart Analysis 45W-85W N. Hemisphere	<a href="#">PYAD01.TIF</a>
Preliminary Surface Chart Analysis (Most Current)	<a href="#">PYAD10.TIF</a>
00Z Surface Analysis Chart, Part 1, 10E-45W N. Hemisphere	<a href="#">PYAA01.TIF</a>
00Z Surface Analysis Chart, Part 2, 40W-95W N. Hemisphere	<a href="#">PYAA02.TIF</a>
06Z Surface Analysis Chart, Part 1, 10E-45W N. Hemisphere	<a href="#">PYAA03.TIF</a>
06Z Surface Analysis Chart, Part 2, 40W-95W N. Hemisphere	<a href="#">PYAA04.TIF</a>
12Z Surface Analysis Chart, Part 1, 10E-45W N. Hemisphere	<a href="#">PYAA05.TIF</a>
12Z Surface Analysis Chart, Part 2, 40W-95W N. Hemisphere	<a href="#">PYAA06.TIF</a>
18Z Surface Analysis Chart, Part 1, 10E-45W N. Hemisphere	<a href="#">PYAA07.TIF</a>
18Z Surface Analysis Chart, Part 2, 40W-95W N. Hemisphere	<a href="#">PYAA08.TIF</a>
Surface Analysis Chart, Part 1, (Most Current)	<a href="#">PYAA11.TIF</a>
Surface Analysis Chart, Part 2, (Most Current)	<a href="#">PYAA12.TIF</a>
24HR Surface Chart VT00Z Forecast 40W-98W Northern Hemisphere	<a href="#">PPAE00.TIF</a>
24HR Surface Chart VT12Z Forecast 40W-98W Northern Hemisphere	<a href="#">PPAE01.TIF</a>
24HR Surface Chart Forecast (Most Current)	<a href="#">PPAE10.TIF</a>
48HR Surface Chart VT00Z Forecast 10E-95W Northern Hemisphere	<a href="#">QDTM85.TIF</a>
48HR Surface Chart VT12Z Forecast 10E-95W Northern Hemisphere	<a href="#">QDTM86.TIF</a>
48HR Surface Chart Forecast (Most Current)	<a href="#">QDTM10.TIF</a>
96HR Surface Chart VT12Z Forecast 10E-95W Northern Hemisphere	<a href="#">PWAM99.TIF</a>
 <u>UPPER AIR CHARTS</u>	
00Z 500MB Surface Chart Analysis 10E-95W Northern Hemisphere	<a href="#">PPAA50.TIF</a>
12Z 500MB Surface Chart Analysis 10E-95W Northern Hemisphere	<a href="#">PPAA51.TIF</a>
500MB Surface Chart Analysis (Most Current)	<a href="#">PPAA10.TIF</a>
24HR 500MB Chart VT00Z Forecast 10E-95W Northern Hemisphere	<a href="#">PPAE50.TIF</a>
24HR 500MB Chart VT12Z Forecast 10E-95W Northern Hemisphere	<a href="#">PPAE51.TIF</a>
24HR 500MB Chart Forecast (Most Current)	<a href="#">PPAE11.TIF</a>
36HR 500MB Chart VT00Z Forecast 10E-95W Northern Hemisphere	<a href="#">PPAG50.TIF</a>
36HR 500MB Chart VT12Z Forecast 10E-95W Northern Hemisphere	<a href="#">PPAG51.TIF</a>
36HR 500MB Chart Forecast (Most Current)	<a href="#">PPAG11.TIF</a>
48HR 500MB Chart VT00Z Forecast 10E-95W Northern Hemisphere	<a href="#">PPAI50.TIF</a>
48HR 500MB Chart VT12Z Forecast 10E-95W Northern Hemisphere	<a href="#">PPAI51.TIF</a>

48HR 500MB Chart Forecast (Most Current) [PPAI10.TIF](#)  
96HR 500MB Chart VT12Z Forecast 10E-95W Northern Hemisphere [PPAM50.TIF](#)

#### TROPICAL CYCLONE CHARTS

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

#### SATELLITE IMAGERY

00Z GOES IR Satellite Image, West Atlantic [evnt00.jpg](#)  
06Z GOES IR Satellite Image, Atlantic [evnt06.jpg](#)  
12Z GOES IR Satellite Image, West Atlantic [evnt12.jpg](#)  
18Z GOES IR Satellite Image, Atlantic [evnt18.jpg](#)  
W Atlantic or Atlantic (Most Current) [evnt99.jpg](#)

#### ICE CHARTS

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

#### SCHEDULE INFORMATION

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

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

Tropical cyclone charts also broadcast from New Orleans, LA

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

<http://www.nws.noaa.gov> NWS Homepage  
<http://www.nws.noaa.gov/om/marine/home.htm> NWS Marine Page  
[cell.weather.gov](http://cell.weather.gov) (WAP/WML browser required) Cellphone page  
[mobile.weather.gov](http://mobile.weather.gov) Mobile Page

Author: Marine and Coastal Weather Services Branch, W/OS21  
National Weather Service  
Last Modified Jan 10, 2011  
Document URL: <http://weather.noaa.gov/pub/fax/rfaxatl.txt>  
<ftp://tgftp.nws.noaa.gov/fax/rfaxatl.txt>



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

\*\*\*\* IMPORTANT NOTICES \*\*\*\*

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

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

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

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

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

\*\*\*\*\*

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

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

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

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

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

.TIF files now also available as .gif files

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

Example using FTPMAIL:

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

```
get PWBE10.TIF
get PWBM99.gif
quit
```

#### WIND/WAVE CHARTS

	FILE NAME
00Z Sea State Analysis 20N-70N, 115W-135E	<a href="#">PJBA99.TIF</a>
@00Z Wind/Wave Analysis 18N-62N, E OF 157W	<a href="#">PWBA88.TIF</a>
06Z Wind/Wave Analysis 18N-62N, E OF 157W	<a href="#">PWBB88.TIF</a>
12Z Wind/Wave Analysis 18N-62N, E OF 157W	<a href="#">PWBA89.TIF</a>
18Z Wind/Wave Analysis 18N-62N, E OF 157W	<a href="#">PWBD89.TIF</a>
Wind/Wave Analysis 18N-62N, E OF 157W (Most Current)	<a href="#">PWBA90.TIF</a>
24HR Wind/Wave Forecast VT00Z 18N-62N, E of 157W	<a href="#">PWBE98.TIF</a>
24HR Wind/Wave Forecast VT12Z 18N-62N, E of 157W	<a href="#">PWBE99.TIF</a>
24HR Wind/Wave Forecast (Most Current)	<a href="#">PWBE10.TIF</a>
48HR Wind/Wave Forecast VT00Z 20N-70N, 115W-135E	<a href="#">PJBI98.TIF</a>
48HR Wind/Wave Forecast VT12Z 20N-70N, 115W-135E	<a href="#">PJBI99.TIF</a>
48HR Wind Wave Forecast (Most Current)	<a href="#">PJBI10.TIF</a>
48HR Wave Period/Swell Direction VT00Z 20N-70N, 115W-135E	<a href="#">PJBI88.TIF</a>
48HR Wave Period/Swell Direction VT12Z 20N-70N, 115W-135E	<a href="#">PJBI89.TIF</a>
48HR Wave Period/Swell Direction (Most Current)	<a href="#">PJBI20.TIF</a>
96HR Wind/Wave Forecast VT12Z 20N-70N, 115W-135E	<a href="#">PJBM98.TIF</a>
96HR Wave Period/Swell Direction VT12Z 20N-70N, 115W-135E	<a href="#">PJBM88.TIF</a>

#### TROPICAL WIND/WAVE CHARTS

Tropical Sea State Analysis VT00Z 20S-30N, E of 145W	<a href="#">PKFA88.TIF</a>
Tropical Sea State Analysis VT12Z 20S-30N, E of 145W	<a href="#">PKFA89.TIF</a>
Tropical Sea State Analysis (Most Current)	<a href="#">PKFA10.TIF</a>
@24HR Wind/Wave Forecast VT00Z 20S-30N, E of 145W	<a href="#">PWFE01.TIF</a>
@24HR Wind/Wave Forecast VT12Z 20S-30N, E of 145W	<a href="#">PWFE03.TIF</a>
@24HR Wind/Wave Forecast (Most Current)	<a href="#">PWFE10.TIF</a>
48HR Wind/Wave Forecast VT00Z 20S-30N, E of 145W	<a href="#">PWFI88.TIF</a>
48HR Wind/Wave Forecast VT12Z 20S-30N, E of 145W	<a href="#">PWFI90.TIF</a>
48HR Wind/Wave Forecast (Most Current)	<a href="#">PWFI10.TIF</a>
48HR Wave Period/Swell Direction VT00Z 20S-30N, E of 145W	<a href="#">PJFI87.TIF</a>
48HR Wave Period/Swell Direction VT12Z 20S-30N, E of 145W	<a href="#">PJFI88.TIF</a>
48HR Wave Period/Swell Direction (Most Current)	<a href="#">PJFI11.TIF</a>
72HR Wind/Wave Forecast VT00Z 20S-30N, E of 145W	<a href="#">PWFK92.TIF</a>
72HR Wind/Wave Forecast VT12Z 20S-30N, E of 145W	<a href="#">PWFK93.TIF</a>
72HR Wind/Wave Forecast (Most Current)	<a href="#">PWFK10.TIF</a>
72HR Wave Period/Swell Direction VT00Z 20S-30N, E of 145W	<a href="#">PJFK93.TIF</a>

#### SURFACE CHARTS

00Z Surface Analysis NE Pacific (Part 1) 20N-70W, 115W-175W	<a href="#">PYBA01.TIF</a>
00Z Surface Analysis NW Pacific (Part 2) 20N-70W, 175W-135E	<a href="#">PYBA02.TIF</a>
06Z Surface Analysis NE Pacific (Part 1) 20N-70W, 115W-175W	<a href="#">PYBA03.TIF</a>
06Z Surface Analysis NW Pacific (Part 2) 20N-70W, 175W-135E	<a href="#">PYBA04.TIF</a>
12Z Surface Analysis NE Pacific (Part 1) 20N-70W, 115W-175W	<a href="#">PYBA05.TIF</a>
12Z Surface Analysis NW Pacific (Part 2) 20N-70W, 175W-135E	<a href="#">PYBA06.TIF</a>
18Z Surface Analysis NE Pacific (Part 1) 20N-70W, 115W-175W	<a href="#">PYBA07.TIF</a>
18Z Surface Analysis NW Pacific (Part 2) 20N-70W, 175W-135E	<a href="#">PYBA08.TIF</a>
Surface Analysis, Part 1 (Most Current)	<a href="#">PYBA90.TIF</a>
Surface Analysis, Part 2 (Most Current)	<a href="#">PYBA91.TIF</a>
24HR Surface Forecast VT00Z Forecast 18N-62N, E of 157W	<a href="#">PPBE00.TIF</a>
24HR Surface Forecast VT12Z Forecast 18N-62N, E of 157W	<a href="#">PPBE01.TIF</a>
24HR Surface Forecast (Most Current)	<a href="#">PPBE10.TIF</a>
48HR Surface Forecast VT00Z 20N-70W, 115W-135E	<a href="#">PWBI98.TIF</a>

48HR Surface Forecast VT12Z 20N-70W, 115W-135E  
48HR Surface Forecast (Most Current)  
96HR Surface Forecast VT12Z 20N-70W, 115W-135E

[PWBI99.TIF](#)  
[PWBI10.TIF](#)  
[PWBM99.TIF](#)

#### TROPICAL SURFACE CHARTS

00Z East Pacific Surface Analysis 20S-30N, E of 145W  
06Z East Pacific Surface Analysis 20S-30N, E of 145W  
12Z East Pacific Surface Analysis 20S-30N, E of 145W  
18Z East Pacific Surface Analysis 20S-30N, E of 145W  
East Pacific Surface Analysis Most Current  
@00Z U.S./Tropical Surface Analysis 5S-50N,55W-125W  
@06Z U.S./Tropical Surface Analysis 5S-50N,55W-125W  
@12Z U.S./Tropical Surface Analysis 5S-50N,55W-125W  
@18Z U.S./Tropical Surface Analysis 5S-50N,55W-125W  
@ U.S./Tropical Surface Analysis (Most Current)  
@24HR Tropical Surface ForecastVT00,20S-30N,80W-145W  
@24HR Tropical Surface ForecastVT12,20S-30N,80W-145W  
@24HR Tropical Surface Forecast(Most Current);  
48HR Tropical Surface ForecastVT00,20S-30N,80W-145W  
48HR Tropical Surface ForecastVT12,20S-30N,80W-145W  
48HR Tropical Surface Forecast(Most Current);  
@72HR Tropical Surface ForecastVT00,20S-30N,80W-145W  
@72HR Tropical Surface ForecastVT12,20S-30N,80W-145W  
@72HR Tropical Surface Forecast (Most Current);

[PYFA96.TIF](#)  
[PYFA97.TIF](#)  
[PYFA98.TIF](#)  
[PYFA99.TIF](#)  
[PYFA90.TIF](#)  
[PYEB86.TIF](#)  
[PYEB87.TIF](#)  
[PYEB85.TIF](#)  
[PYEB88.TIF](#)  
[PYEB11.TIF](#)  
[PYFE79.TIF](#)  
[PYFE80.TIF](#)  
[PYFE10.TIF](#)  
[PYFI81.TIF](#)  
[PYFI82.TIF](#)  
[PYFI10.TIF](#)  
[PYFK83.TIF](#)  
[PYFK84.TIF](#)  
[PYFK10.TIF](#)

#### UPPER AIR CHARTS

00Z 500 MB Analysis 20N-70N 115W-135E  
12Z 500 MB Analysis 20N-70N, 115W-135E  
500 MB Analysis (Most Current)  
24HR 500 MB Forecast VT00Z 20N-70N, 115W-135E  
24HR 500 MB Forecast VT12Z 20N-70N, 115W-135E  
24HR 500 MB Forecast (Most Current)  
48HR 500 MB Forecast VT00Z 20N-70N, 115W-135E  
48HR 500 MB Forecast VT12Z 20N-70N, 115W-135E  
48HR 500 MB Forecast (Most Current)  
96HR 500 MB VT12Z 20N-70N, 115W-135E

[PPBA50.TIF](#)  
[PBBA51.TIF](#)  
[PPBA10.TIF](#)  
[PPBE50.TIF](#)  
[PPBE51.TIF](#)  
[PPBE11.TIF](#)  
[PPBI50.TIF](#)  
[PPBI51.TIF](#)  
[PPBI10.TIF](#)  
[PPBM50.TIF](#)

#### TROPICAL CYCLONE CHARTS

72 HR Tropical Cyclone Danger Area VT 03Z 0N-40N, 80W-180W  
72 HR Tropical Cyclone Danger Area VT 09Z 0N-40N, 80W-180W  
72 HR Tropical Cyclone Danger Area VT 15Z 0N-40N, 80W-180W  
72 HR Tropical Cyclone Danger Area VT 21Z 0N-40N, 80W-180W  
72 HR Tropical Cyclone Danger Area (Most Current)

[PWFK88.TIF](#)  
[PWFK89.TIF](#)  
[PWFK90.TIF](#)  
[PWFK91.TIF](#)  
[PWFK11.TIF](#)

Note: Tropical Cyclone Danger Area chart replaced by 48HR High Wind/Wave Warning chart Dec 01 - May 14 Valid times 00z,06z,12z and 18z

#### SEA SURFACE TEMPERATURES

Pacific SST Chart 40N-53N, E of 136W  
Pacific SST Chart 23N-42N, E of 150W

[PTBA88.TIF](#)  
[PTBA89.TIF](#)

#### SATELLITE IMAGERY

@00Z GOES IR Satellite Image, Tropical East Pacific

[evpn02.jpg](#)

06Z GOES IR Satellite Image, Tropical East Pacific	<a href="#">evpn07.jpg</a>
@12Z GOES IR Satellite Image, Tropical East Pacific	<a href="#">evpn04.jpg</a>
18Z GOES IR Satellite Image, Tropical East Pacific	<a href="#">evpn08.jpg</a>
GOES IR Satellite Image, Tropical East Pac (MOST CURRENT)	<a href="#">evpn10.jpg</a>
@06Z GOES IR Satellite Image, East Pacific	<a href="#">evpn03.jpg</a>
12Z GOES IR Satellite Image, East Pacific	<a href="#">evpn13.jpg</a>
@18Z GOES IR Satellite Image, East Pacific	<a href="#">evpn14.jpg</a>
21Z GOES VISIBLE Satellite Image, East Pacific	<a href="#">evpn00.jpg</a>
GOES Satellite Image, East Pacific (MOST CURRENT)	<a href="#">evpn98.jpg</a>
00Z GOES IR Satellite Image, Pacific	<a href="#">evpn01.jpg</a>
06Z GOES IR Satellite Image, Pacific	<a href="#">evpn06.jpg</a>
12Z GOES IR Satellite Image, Pacific	<a href="#">evpn12.jpg</a>
18Z GOES IR Satellite Image, Pacific	<a href="#">evpn18.jpg</a>
GOES IR Satellite Image, Pacific (MOST CURRENT)	<a href="#">evpn99.jpg</a>

#### SCHEDULE INFORMATION

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

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

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

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

<a href="http://www.nws.noaa.gov">http://www.nws.noaa.gov</a>	NWS Homepage
<a href="http://www.nws.noaa.gov/om/marine/home.htm">http://www.nws.noaa.gov/om/marine/home.htm</a>	NWS Marine Page
cell.weather.gov (WAP/WML browser required)	Cellphone page
<a href="http://mobile.weather.gov">mobile.weather.gov</a>	Mobile Page

Author: Marine and Coastal Weather Services Branch, W/OS21

National Weather Service

Last Modified Jan 10, 2011

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

<ftp://tgftp.nws.noaa.gov/fax/rfaxpac.txt>

NATIONAL WEATHER SERVICE RADIOFAX PRODUCTS  
for the Gulf of Mexico, Caribbean, Tropical Atlantic and Tropical E Pacific

\*\*\*\* IMPORTANT NOTICES \*\*\*\*

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

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

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

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

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

\*\*\*\*\*

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

Assigned frequencies 4317.9, 8503.9 12789.9, 17146.4 kHz

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

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

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

.TIF files now also available as .gif files

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

Example using FTPMAIL:

Send an e-mail to: ftpmail@ftpmail.nws.noaa.gov  
Subject line: Put anything you like  
Body: open  
cd fax  
get PWEE11.TIF

get PYEA11.gif  
quit

	FILE NAME
WIND/WAVE CHARTS	
00Z Sea State Analysis, 0N-31N, 35W-100W	<a href="#">PJEA88.TIF</a>
12Z Sea State Analysis, 0N-31N, 35W-100W	<a href="#">PJEA90.TIF</a>
Sea State Analysis (Most Current)	<a href="#">PJEA11.TIF</a>
24HR Wind/Wave Forecast VT00, 0N-31N, 35W-100W	<a href="#">PWEE89.TIF</a>
24HR Wind/Wave Forecast VT12, 0N-31N, 35W-100W	<a href="#">PWEE91.TIF</a>
24HR Wind/Wave Forecast (Most Current)	<a href="#">PWEE11.TIF</a>
36HR Wind/Wave Forecast VT12, 0N-31N, 35W-100W	<a href="#">PWED98.TIF</a>
48HR Wind/Wave Forecast VT00, 0N-31N, 35W-100W	<a href="#">PWEI88.TIF</a>
48HR Wind/Wave Forecast VT12, 0N-31N, 35W-100W	<a href="#">PWEI89.TIF</a>
48HR Wind/Wave Forecast (Most Current)	<a href="#">PWEI11.TIF</a>
48HR Wave Period/Swell Dir Forecast VT00, 0N-31N, 35W-100W	<a href="#">PJEI88.TIF</a>
48HR Wave Period/Swell Dir Forecast VT12, 0N-31N, 35W-100W	<a href="#">PJEI89.TIF</a>
48HR Wave Period/Swell Direction Forecast (Most Current)	<a href="#">PJEI11.TIF</a>
72HR Wind/Wave Forecast VT00, 0N-31N, 35W-100W	<a href="#">PJEK88.TIF</a>
72HR Wind/Wave Forecast VT12, 0N-31N, 35W-100W	<a href="#">PJEK89.TIF</a>
72HR Wind/Wave Forecast (Most Current)	<a href="#">PJEK11.TIF</a>
72HR Wave Period/Swell Dir Forecast VT00, 0N-31N, 35W-100W	<a href="#">PKEK88.TIF</a>

#### SURFACE CHARTS

@00Z U.S./Tropical Surface Analysis (W Half) 5S-50N,55W-125W	<a href="#">PYEB86.TIF</a>
@06Z U.S./Tropical Surface Analysis (W Half) 5S-50N,55W-125W	<a href="#">PYEB87.TIF</a>
@12Z U.S./Tropical Surface Analysis (W Half) 5S-50N,55W-125W	<a href="#">PYEB85.TIF</a>
@18Z U.S./Tropical Surface Analysis (W Half) 5S-50N,55W-125W	<a href="#">PYEB88.TIF</a>
@ U.S./Tropical Surface Analysis (W Half) (Most Current)	<a href="#">PYEB11.TIF</a>
00Z Tropical Surface Analysis (E Half) 5S-50N, 0W-70W	<a href="#">PYEA86.TIF</a>
06Z Tropical Surface Analysis (E Half) 5S-50N, 0W-70W	<a href="#">PYEA87.TIF</a>
12Z Tropical Surface Analysis (E Half) 5S-50N, 0W-70W	<a href="#">PYEA85.TIF</a>
18Z Tropical Surface Analysis (E Half) 5S-50N, 0W-70W	<a href="#">PYEA88.TIF</a>
Tropical Surface Analysis (E Half) (Most Current)	<a href="#">PYEA11.TIF</a>
24HR Tropical Surface Forecast(E Half)VT00,00N-31N, 35W-100W	<a href="#">PYEE79.TIF</a>
24HR Tropical Surface Forecast(E Half)VT12,00N-31N, 35W-100W	<a href="#">PYEE80.TIF</a>
Tropical Surface Forecast(Most Current)	<a href="#">PYEE10.TIF</a>
48HR Tropical Surface Forecast(E Half)VT00,00N-31N, 35W-100W	<a href="#">PYEI81.TIF</a>
48HR Tropical Surface Forecast(E Half)VT12,00N-31N, 35W-100W	<a href="#">PYEI82.TIF</a>
Tropical Surface Forecast(Most Current)	<a href="#">PYEI10.TIF</a>
72HR Tropical Surface Forecast(E Half)VT00,00N-31N, 35W-100W	<a href="#">PYEK83.TIF</a>
72HR Tropical Surface Forecast(E Half)VT12,00N-31N, 35W-100W	<a href="#">PYEK84.TIF</a>
Tropical Surface Forecast(Most Current)	<a href="#">PYEK10.TIF</a>

@ For further forecasts covering the Tropical East Pacific,  
see Pt. Reyes and Honolulu charts

#### TROPICAL CYCLONE CHARTS

Tropical Cyclone Danger Area* VT03, 05N-60N, 00W-100W	<a href="#">PWEK89.TIF</a>
Tropical Cyclone Danger Area* VT09, 05N-60N, 00W-100W	<a href="#">PWEK90.TIF</a>
Tropical Cyclone Danger Area* VT15, 05N-60N, 00W-100W	<a href="#">PWEK91.TIF</a>
Tropical Cyclone Danger Area* VT21, 05N-60N, 00W-100W	<a href="#">PWEK88.TIF</a>
Tropical Cyclone Danger Area* (Most Current)	<a href="#">PWEK11.TIF</a>

#### HIGH SEAS FORECASTS

04Z High Seas Forecast 7N-31N, 35W-98W, In English	<a href="#">PLEA86.TIF</a>
10Z High Seas Forecast 7N-31N, 35W-98W, In English	<a href="#">PLEA87.TIF</a>

16Z High Seas Forecast 7N-31N, 35W-98W, In English  
22Z High Seas Forecast 7N-31N, 35W-98W, In English  
High Seas Forecast (Most Current)

[PLEA89.TIF](#)  
[PLEA88.TIF](#)  
[PLEA10.TIF](#)

#### SATELLITE IMAGERY

0645Z GOES IR Satellite Image, 12S-44N, 28W-112W  
1145Z GOES IR Satellite Image, 12S-44N, 28W-112W  
1745Z GOES IR Satellite Image, 12S-44N, 28W-112W  
2345Z GOES IR Satellite Image, 12S-44N, 28W-112W  
GOES IR Satellite Image (Most Current)

[evst06.jpg](#)  
[evst12.jpg](#)  
[evst18.jpg](#)  
[evst00.jpg](#)  
[evst99.jpg](#)

#### SCHEDULE INFORMATION

Radiofax Schedule (New Orleans, LA)  
Radiofax Schedule (DOS Text Format)  
Request for Comments  
Product Notice Bulletin  
Test Chart  
Internet File Names, (This file)

[PLEZ01.TIF](#)  
[hfgulf.txt](#)  
[PLEZ02.TIF](#)  
[PLEZ03.TIF](#)  
[PZZZ95.TIF](#)  
[rfaxmex.txt](#)

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

Tropical cyclone charts also broadcast from Boston, MA

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

<http://www.nws.noaa.gov>

NWS Homepage

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

NWS Marine Page

[cell.weather.gov](http://cell.weather.gov) (WAP/WML browser required)

Cellphone page

[mobile.weather.gov](http://mobile.weather.gov)

Mobile Page

Author: Marine and Coastal Weather Services Branch, W/OS21

National Weather Service

Last Modified Jan 10, 2011

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

<ftp://tgftp.nws.noaa.gov/pub/fax/rfaxmex.txt>

NATIONAL WEATHER SERVICE RADIOFAX PRODUCTS  
for the Northeast and Eastern Pacific

\*\*\*\* IMPORTANT NOTICES \*\*\*\*

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

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

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

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

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

\*\*\*\*\*

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

Assigned frequencies 2054, 4298, 8459, 12412.5 kHz

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

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

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

.TIF files now also available as .gif files

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

Example using FTPMAIL:

Send an e-mail to: ftpmail@ftpmail.nws.noaa.gov  
Subject line: Put anything you like  
Body: open  
cd fax  
get PJBI99.TIF  
get PYBE10.gif  
quit



WIND/WAVE CHARTS

	FILE NAME
00Z Sea State Analysis 20N-70N, 115W-135E	<a href="#">PJBA99.TIF</a>
24HR Wind/Wave Forecast VT00Z 40N-70N, 115W-170E	<a href="#">PJBE88.TIF</a>
24HR Wind/Wave Forecast VT12Z 40N-70N, 115W-170E	<a href="#">PJBE89.TIF</a>
24HR Wind Wave Forecast (Most Current)	<a href="#">PJBE10.TIF</a>
48HR Wind/Wave Forecast VT00Z 20N-70N, 115W-135E	<a href="#">PJBI98.TIF</a>
48HR Wind/Wave Forecast VT12Z 20N-70N, 115W-135E	<a href="#">PJBI99.TIF</a>
48HR Wind Wave Forecast (Most Current)	<a href="#">PJBI10.TIF</a>
48HR Wave Period/Swell Direction VT00Z 20N-70N, 115W-135E	<a href="#">PJBI88.TIF</a>
48HR Wave Period/Swell Direction VT12Z 20N-70N, 115W-135E	<a href="#">PJBI89.TIF</a>
48HR Wave Period/Swell Direction (Most Current)	<a href="#">PJBI20.TIF</a>
96HR Wind/Wave Forecast VT12Z 20N-70N, 115W-135E	<a href="#">PJBM98.TIF</a>
96HR Wave Period/Swell Direction VT12Z 20N-70N, 115W-135E	<a href="#">PJBM88.TIF</a>

SURFACE CHARTS

00Z Surface Analysis 40N-70N, 125W-150E	<a href="#">PYCA00.TIF</a>
06Z Surface Analysis 40N-70N, 125W-150E	<a href="#">PYCA01.TIF</a>
12Z Surface Analysis 40N-70N, 125W-150E	<a href="#">PYCA02.TIF</a>
18Z Surface Analysis 40N-70N, 125W-150E	<a href="#">PYCA03.TIF</a>
Surface Analysis (Most Current)	<a href="#">PYCA10.TIF</a>
24HR Surface Chart Forecast VT00Z 40N-70N, 115W-170E	<a href="#">PYBE00.TIF</a>
24HR Surface Chart Forecast VT12Z 40N-70N, 115W-170E	<a href="#">PYBE01.TIF</a>
24HR Surface Chart Forecast (Most Current)	<a href="#">PYBE10.TIF</a>
48HR Surface Chart Forecast VT00Z 20N-70N 115W-135E	<a href="#">PWBI99.TIF</a>
48HR Surface Chart Forecast VT12Z 20N-70N 115W-135E	<a href="#">PWBI98.TIF</a>
48HR Surface Chart Forecast (Most Current)	<a href="#">PWBI10.TIF</a>
96HR Surface Chart Forecast VT12Z	<a href="#">PWBM99.TIF</a>

UPPER AIR CHARTS

00Z 500 MB Analysis 20N-70N 115W-135E	<a href="#">PPBA50.TIF</a>
12Z 500 MB Analysis 20N-70N, 115W-135E	<a href="#">PBBA51.TIF</a>
500 MB Analysis (Most Current)	<a href="#">PPBA10.TIF</a>
24HR 500 MB Forecast VT00Z 20N-70N, 115W-135E	<a href="#">PPBE50.TIF</a>
24HR 500 MB Forecast VT12Z 20N-70N, 115W-135E	<a href="#">PPBE51.TIF</a>
24HR 500 MB Forecast (Most Current)	<a href="#">PPBE11.TIF</a>
48HR 500 MB Forecast VT00Z 20N-70N, 115W-135E	<a href="#">PPBI50.TIF</a>
48HR 500 MB Forecast VT12Z 20N-70N, 115W-135E	<a href="#">PPBI51.TIF</a>
48HR 500 MB Forecast (Most Current)	<a href="#">PPBI10.TIF</a>
96HR 500 MB VT12Z 20N-70N, 115W-135E	<a href="#">PPBM50.TIF</a>

SEA SURFACE TEMPERATURES

Sea Surface Temperature Analysis 40N-60N,125W - 160E	<a href="#">PTCA88.TIF</a>
--	----------------------------

SATELLITE IMAGERY

00Z GOES IR Satellite Image, Pacific	<a href="#">evpn01.jpg</a>
06Z GOES IR Satellite Image, Pacific	<a href="#">evpn06.jpg</a>
12Z GOES IR Satellite Image, Pacific	<a href="#">evpn12.jpg</a>
18Z GOES IR Satellite Image, Pacific	<a href="#">evpn18.jpg</a>
GOES IR Satellite Image, Pacific (MOST CURRENT)	<a href="#">evpn99.jpg</a>

ICE CHARTS

Sea Ice Analysis  
5 Day Sea Ice Forecast  
Cook Inlet Sea Ice Analysis

[PTCA89.TIF](#)  
[PTCO89.TIF](#)  
[PTCA87.TIF](#)

SCHEDULE INFORMATION and MISCELLANEOUS

Radiofax Schedule Kodiak, AK;  
Radiofax Schedule (DOS Text Version)  
Request for Comments  
Product Notice Bulletin  
Test Pattern;  
Radiofacsimile Symbols and Contractions  
Internet File Names; (This file)

[PLBZ05.TIF](#)  
[hfak.txt](#)  
xxxxxxx.xxx  
xxxxxxx.xxx  
xxxxxxx.xxx  
[PLBZ06.TIF](#)  
[rfaxak.txt](#)

xxxxxxx.xxx = Currently unavailable

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

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

<a href="http://www.nws.noaa.gov">http://www.nws.noaa.gov</a>	NWS Homepage
<a href="http://www.nws.noaa.gov/om/marine/home.htm">http://www.nws.noaa.gov/om/marine/home.htm</a>	NWS Marine Page
<a href="http://cell.weather.gov">cell.weather.gov</a> (WAP/WML browser required)	Cellphone page
<a href="http://mobile.weather.gov">mobile.weather.gov</a>	Mobile Page

Author: Marine and Coastal Weather Services Branch, W/OS21  
National Weather Service  
Last Modified Jan 10, 2011  
Document URL: <http://weather.noaa.gov/pub/fax/rfaxak.txt>  
<ftp://tgftp.nws.noaa.gov/fax/rfaxak.txt>

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

\*\*\*\* IMPORTANT NOTICES \*\*\*\*

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

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

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

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

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

\*\*\*\*\*

NAVY Communications Station KVM-70 - Honolulu, Hawaii

Assigned frequencies 9982.5, 11090 and 16135 kHz

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

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

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

xxxxxx (Not yet available from these directories)

.TIF files now also available as .gif files

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

Example using FTPMAIL:

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

```
get PJFD89.TIF
get PBFA11.gif
quit
```

FILE  
NAME

WIND/WAVE CHARTS - CENTRAL PACIFIC

00Z Pacific Wind/Wave Analysis 30S-30N, 110W-130E	<a href="#">PJFB89.TIF</a>
12Z Pacific Wind/Wave Analysis 30S-30N, 110W-130E	<a href="#">PJFD89.TIF</a>
Pacific Wind/Wave Analysis (Most Current)	<a href="#">PJFB10.TIF</a>
24HR Pacific Wind/Wave Forecast VT00Z 30S-30N, 110W-130E	<a href="#">PWFE82.TIF</a>
24HR Pacific Wind/Wave Forecast VT12Z 30S-30N, 110W-130E	<a href="#">PWFE84.TIF</a>
24HR Pacific Wind/Wave Forecast (Most Current)	<a href="#">PWFE11.TIF</a>
48HR Pacific Wind/Wave Forecast VT00Z 30S-30N, 110W-130E	<a href="#">PJFI89.TIF</a>
48HR Pacific Wind/Wave Forecast VT12Z 30S-30N, 110W-130E	<a href="#">PJFI91.TIF</a>
48HR Pacific Wind/Wave Forecast (Most Current)	<a href="#">PJFI10.TIF</a>
72HR Pacific Sea State Forecast VT00Z 30S-30N, 110W-130E	<a href="#">PJFK89.TIF</a>
72HR Pacific Sea State Forecast VT12Z 30S-30N, 110W-130E	<a href="#">PJFK91.TIF</a>
72HR Pacific Sea State Forecast (Most Current)	<a href="#">PJFK10.TIF</a>

WIND/WAVE CHARTS - SE PACIFIC

Tropical Sea State Analysis VT00Z 20S-30N, E of 145W	<a href="#">PKFA88.TIF</a>
Tropical Sea State Analysis VT12Z 20S-30N, E of 145W	<a href="#">PKFA89.TIF</a>
Tropical Sea State Analysis (Most Current)	<a href="#">PKFA10.TIF</a>
24HR Wind/Wave Forecast VT00Z 20S-30N, E of 145W	<a href="#">PWFE01.TIF</a>
24HR Wind/Wave Forecast VT12Z 20S-30N, E of 145W	<a href="#">PWFE03.TIF</a>
24HR Wind/Wave Forecast (Most Current)	<a href="#">PWFE10.TIF</a>
48HR Wind/Wave Forecast VT00Z 20S-30N, E of 145W	<a href="#">PWFI88.TIF</a>
48HR Wind/Wave Forecast VT12Z 20S-30N, E of 145W	<a href="#">PWFI90.TIF</a>
48HR Wind/Wave Forecast (Most Current)	<a href="#">PWFI10.TIF</a>
@48HR Wave Period/Swell Direction VT00Z 20S-30N, E of 145W	<a href="#">PJFI87.TIF</a>
48HR Wave Period/Swell Direction VT12Z 20S-30N, E of 145W	<a href="#">PJFI88.TIF</a>
48HR Wave Period/Swell Direction (Most Current)	<a href="#">PJFI11.TIF</a>
72HR Wind/Wave Forecast VT00Z 20S-30N, E of 145W	<a href="#">PWFK92.TIF</a>
72HR Wind/Wave Forecast VT12Z 20S-30N, E of 145W	<a href="#">PWFK93.TIF</a>
72HR Wind/Wave Forecast (Most Current)	<a href="#">PWFK10.TIF</a>
72HR Wave Period/Swell Direction VT00Z 20S-30N, E of 145W	<a href="#">PJFK93.TIF</a>

WIND/WAVE CHARTS - NORTH PACIFIC

00Z Sea State Analysis 20N-70N, 115W-135E	<a href="#">PJBA99.TIF</a>
@00Z Wind/Wave Analysis 18N-62N, E OF 157W	<a href="#">PWBA88.TIF</a>
@06Z Wind/Wave Analysis 18N-62N, E OF 157W	<a href="#">PWBB88.TIF</a>
@12Z Wind/Wave Analysis 18N-62N, E OF 157W	<a href="#">PWBA89.TIF</a>
@18Z Wind/Wave Analysis 18N-62N, E OF 157W	<a href="#">PWBD89.TIF</a>
@ Wind/Wave Analysis 18N-62N, E OF 157W (Most Current)	<a href="#">PWBA90.TIF</a>
24HR Wind/Wave Forecast VT00Z 18N-62N, E of 157W	<a href="#">PWBE98.TIF</a>
24HR Wind/Wave Forecast VT12Z 18N-62N, E of 157W	<a href="#">PWBE99.TIF</a>
24HR Wind/Wave Forecast (Most Current)	<a href="#">PWBE10.TIF</a>
48HR Wind/Wave Forecast VT00Z 20N-70N, 115W-135E	<a href="#">PJBI98.TIF</a>
48HR Wind/Wave Forecast VT12Z 20N-70N, 115W-135E	<a href="#">PJBI99.TIF</a>
48HR Wind Wave Forecast (Most Current)	<a href="#">PJBI10.TIF</a>
48HR Wave Period/Swell Direction VT00Z 20N-70N, 115W-135E	<a href="#">PJBI88.TIF</a>
@48HR Wave Period/Swell Direction VT12Z 20N-70N, 115W-135E	<a href="#">PJBI89.TIF</a>
48HR Wave Period/Swell Direction (Most Current)	<a href="#">PJBI20.TIF</a>
96HR Wind/Wave Forecast VT12Z 20N-70N, 115W-135E	<a href="#">PJBM98.TIF</a>
96HR Wave Period/Swell Direction VT12Z 20N-70N, 115W-135E	<a href="#">PJBM88.TIF</a>

SURFACE CHARTS - CENTRAL PACIFIC

@00Z North Pacific Preliminary Analysis 20N-80N, 110W-110E	xxxxxxx.TIF
@06Z North Pacific Preliminary Analysis 20N-80N, 110W-110E	xxxxxxx.TIF
@12Z North Pacific Preliminary Analysis 20N-80N, 110W-110E	xxxxxxx.TIF
@18Z North Pacific Preliminary Analysis 20N-80N, 110W-110E	xxxxxxx.TIF
@ North Pacific Preliminary Analysis (Most Current)	<a href="#">PYPA00.TIF</a>
00Z Pacific Surface Analysis EQ-50N, 110W-130E	<a href="#">PPBA88.TIF</a>
06Z Pacific Surface Analysis EQ-50N, 110W-130E	<a href="#">PPBA89.TIF</a>
12Z Pacific Surface Analysis EQ-50N, 110W-130E	<a href="#">PPBA90.TIF</a>
18Z Pacific Surface Analysis EQ-50N, 110W-130E	<a href="#">PPBA91.TIF</a>
Pacific Surface Analysis (Most Current)	<a href="#">PPBA11.TIF</a>
00Z Pacific Streamline Analysis 30S-30N, 110W-130E	<a href="#">PWFA90.TIF</a>
06Z Pacific Streamline Analysis 30S-30N, 110W-130E	<a href="#">PWFA91.TIF</a>
12Z Pacific Streamline Analysis 30S-30N, 110W-130E	<a href="#">PWFA92.TIF</a>
18Z Pacific Streamline Analysis 30S-30N, 110W-130E	<a href="#">PWFA93.TIF</a>
Pacific Streamline Analysis (Most Current)	<a href="#">PWFA11.TIF</a>
@\$00Z Tropical Surface Analysis 40S-40N, 100W-120E	xxxxxxx.TIF
@\$06Z Tropical Surface Analysis 40S-40N, 100W-120E	xxxxxxx.TIF
@\$12Z Tropical Surface Analysis 40S-40N, 100W-120E	xxxxxxx.TIF
@\$18Z Tropical Surface Analysis 40S-40N, 100W-120E	xxxxxxx.TIF
@\$ Tropical Surface Analysis (Most Current)	<a href="#">QYFA99.TIF</a>
03Z Significant Cloud Features 30S-50N, 110W-160E	<a href="#">PBFA99.TIF</a>
15Z Significant Cloud Features 30S-50N, 110W-160E	<a href="#">PBFC99.TIF</a>
Significant Cloud Features (Most Current)	<a href="#">PBFA11.TIF</a>
24HR Pacific Surface Forecast VT00Z 30S-50N 110W-130E	<a href="#">PYFE87.TIF</a>
24HR Pacific Surface Forecast VT12Z 30S-50N 110W-130E	<a href="#">PYFE88.TIF</a>
24HR Pacific Surface Forecast (Most Current)	<a href="#">PYFE11.TIF</a>
@\$24HR Wind/Stream Forecast VT00Z 30S-50N, 100W-120E	<a href="#">QWFI99.TIF</a>
@\$48HR Wind/Stream Forecast VT00Z 30S-50N, 100W-120E	<a href="#">QWFQ99.TIF</a>
48HR Pacific Surface Forecast VT00Z 30S-50N 110W-130E	<a href="#">PYFI87.TIF</a>
48HR Pacific Surface Forecast VT12Z 30S-50N 110W-130E	<a href="#">PYFI88.TIF</a>
48HR Pacific Surface Forecast (Most Current)	<a href="#">PYFI11.TIF</a>
72HR Pacific Surface Forecast VT00Z 30S-50N 110W-130E	<a href="#">PYFK87.TIF</a>
72HR Pacific Surface Forecast VT12Z 30S-50N 110W-130E	<a href="#">PYFK88.TIF</a>
72HR Pacific Surface Forecast (Most Current)	<a href="#">PYFK11.TIF</a>

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

SURFACE CHARTS - SE PACIFIC

00Z East Pacific Surface Analysis 20S-30N, E of 145W	<a href="#">PYFA96.TIF</a>
06Z East Pacific Surface Analysis 20S-30N, E of 145W	<a href="#">PYFA97.TIF</a>
12Z East Pacific Surface Analysis 20S-30N, E of 145W	<a href="#">PYFA98.TIF</a>
18Z East Pacific Surface Analysis 20S-30N, E of 145W	<a href="#">PYFA99.TIF</a>
East Pacific Surface Analysis Most Current	<a href="#">PYFA90.TIF</a>
@00Z U.S./Tropical Surface Analysis 5S-50N,55W-125W	<a href="#">PYEB86.TIF</a>
@06Z U.S./Tropical Surface Analysis 5S-50N,55W-125W	<a href="#">PYEB87.TIF</a>
@12Z U.S./Tropical Surface Analysis 5S-50N,55W-125W	<a href="#">PYEB85.TIF</a>
@18Z U.S./Tropical Surface Analysis 5S-50N,55W-125W	<a href="#">PYEB88.TIF</a>
@ U.S./Tropical Surface Analysis (Most Current)	<a href="#">PYEB11.TIF</a>
24HR Tropical Surface Forecast VT00,20S-30N,80W-145W	<a href="#">PYFE79.TIF</a>
24HR Tropical Surface Forecast VT12,20S-30N,80W-145W	<a href="#">PYFE80.TIF</a>
24HR Tropical Surface Forecast(Most Current);	<a href="#">PYFE10.TIF</a>
48HR Tropical Surface Forecast VT00,20S-30N,80W-145W	<a href="#">PYFI81.TIF</a>
48HR Tropical Surface Forecast VT12,20S-30N,80W-145W	<a href="#">PYFI82.TIF</a>
48HR Tropical Surface Forecast(Most Current);	<a href="#">PYFI10.TIF</a>
72HR Tropical Surface Forecast VT00,20S-30N,80W-145W	<a href="#">PYFK83.TIF</a>
72HR Tropical Surface Forecast VT12,20S-30N,80W-145W	<a href="#">PYFK84.TIF</a>
72HR Tropical Surface Forecast (Most Current);	<a href="#">PYFK10.TIF</a>

## SURFACE CHARTS - NORTH PACIFIC

00Z Surface Analysis NE Pacific (Part 1) 20N-70W, 115W-175W	<a href="#">PYBA01.TIF</a>
00Z Surface Analysis NW Pacific (Part 2) 20N-70W, 175W-135E	<a href="#">PYBA02.TIF</a>
06Z Surface Analysis NE Pacific (Part 1) 20N-70W, 115W-175W	<a href="#">PYBA03.TIF</a>
06Z Surface Analysis NW Pacific (Part 2) 20N-70W, 175W-135E	<a href="#">PYBA04.TIF</a>
12Z Surface Analysis NE Pacific (Part 1) 20N-70W, 115W-175W	<a href="#">PYBA05.TIF</a>
12Z Surface Analysis NW Pacific (Part 2) 20N-70W, 175W-135E	<a href="#">PYBA06.TIF</a>
18Z Surface Analysis NE Pacific (Part 1) 20N-70W, 115W-175W	<a href="#">PYBA07.TIF</a>
18Z Surface Analysis NW Pacific (Part 2) 20N-70W, 175W-135E	<a href="#">PYBA08.TIF</a>
Surface Analysis, Part 1 (Most Current)	<a href="#">PYBA90.TIF</a>
Surface Analysis, Part 2 (Most Current)	<a href="#">PYBA91.TIF</a>
@24HR Surface Forecast VT00Z Forecast 18N-62N, E of 157W	<a href="#">PPBE00.TIF</a>
@24HR Surface Forecast VT12Z Forecast 18N-62N, E of 157W	<a href="#">PPBE01.TIF</a>
@24HR Surface Forecast (Most Current)	<a href="#">PPBE10.TIF</a>
48HR Surface Forecast VT00Z 20N-70W, 115W-135E	<a href="#">PWBI98.TIF</a>
48HR Surface Forecast VT12Z 20N-70W, 115W-135E	<a href="#">PWBI99.TIF</a>
48HR Surface Forecast (Most Current)	<a href="#">PWBI10.TIF</a>
96HR Surface Forecast VT12Z 20N-70W, 115W-135E	<a href="#">PWBM99.TIF</a>

## TROPICAL CYCLONE CHARTS - PACIFIC

72 HR Tropical Cyclone Danger Area VT 03Z 0N-40N, 80W-170E	<a href="#">PWFK03.TIF</a>
72 HR Tropical Cyclone Danger Area VT 09Z 0N-40N, 80W-170E	<a href="#">PWFK09.TIF</a>
72 HR Tropical Cyclone Danger Area VT 15Z 0N-40N, 80W-170E	<a href="#">PWFK15.TIF</a>
72 HR Tropical Cyclone Danger Area VT 21Z 0N-40N, 80W-170E	<a href="#">PWFK21.TIF</a>
72 HR Tropical Cyclone Danger Area (Most Current)	<a href="#">PWFK12.TIF</a>

## SEA SURFACE TEMPERATURE CHARTS

Pacific SST Chart 55N-EQ, 110W-160E	<a href="#">PTFA88.TIF</a>
-------------------------------------	----------------------------

## SATELLITE IMAGERY (IR)

00Z Eastern Pacific Satellite Image 05S-55N, 110W-155E	<a href="#">evpz00.jpg</a>
06Z Eastern Pacific Satellite Image 05S-55N, 110W-155E	<a href="#">evpz06.jpg</a>
12Z Eastern Pacific Satellite Image 05S-55N, 110W-155E	<a href="#">evpz12.jpg</a>
18Z Eastern Pacific Satellite Image 05S-55N, 110W-155E	<a href="#">evpz18.jpg</a>
Eastern Pacific Satellite Image (Most Current)	<a href="#">evpz11.jpg</a>
00Z Southwest Pacific Satellite Image 40S-05N, 130W-165E	<a href="#">evps00.jpg</a>
06Z Southwest Pacific Satellite Image 40S-05N, 130W-165E	<a href="#">evps06.jpg</a>
12Z Southwest Pacific Satellite Image 40S-05N, 130W-165E	<a href="#">evps12.jpg</a>
18Z Southwest Pacific Satellite Image 40S-05N, 130W-165E	<a href="#">evps18.jpg</a>
Southwest Pacific Satellite Image (Most Current)	<a href="#">evps11.jpg</a>
@00Z Tropical East Pacific Satellite Image 20S-40N,E of 145W	<a href="#">evpn02.jpg</a>
06Z Tropical East Pacific Satellite Image 20S-40N,E of 145W	<a href="#">evpn07.jpg</a>
@12Z Tropical East Pacific Satellite Image 20S-40N,E of 145W	<a href="#">evpn04.jpg</a>
18Z Tropical East Pacific Satellite Image 20S-40N,E of 145W	<a href="#">evpn08.jpg</a>
Tropical East Pacific Satellite Image (MOST CURRENT)	<a href="#">evpn10.jpg</a>
@00Z Pacific Satellite Image 05N-55N, E of 180W	<a href="#">evpn01.jpg</a>
06Z Pacific Satellite Image 05N-55N, E of 180W	<a href="#">evpn06.jpg</a>
@12Z Pacific Satellite Image 05N-55N, E of 180W	<a href="#">evpn12.jpg</a>
18Z Pacific Satellite Image 05N-55N, E of 180W	<a href="#">evpn18.jpg</a>
Pacific Satellite Image (MOST CURRENT)	<a href="#">evpn99.jpg</a>

## SCHEDULE INFORMATION

Radiofax Schedule (Honolulu, HI) Part I	<a href="#">PLBZ07.TIF</a>
---	----------------------------

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

@ Not transmitted via Honolulu radiofax but listed here for convenience

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

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

<a href="http://www.nws.noaa.gov">http://www.nws.noaa.gov</a>	NWS Homepage
<a href="http://www.nws.noaa.gov/om/marine/home.htm">http://www.nws.noaa.gov/om/marine/home.htm</a>	NWS Marine Page
<a href="http://cell.weather.gov">cell.weather.gov</a> (WAP/WML browser required)	Cellphone page
<a href="http://mobile.weather.gov">mobile.weather.gov</a>	Mobile Page

Author: Marine and Coastal Weather Services Branch, W/OS21

National Weather Service

Last Modified Jan 10, 2011

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

<ftp://tgftp.nws.noaa.gov/fax/rfaxhi.txt>

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

\*\*\*\* IMPORTANT NOTICES \*\*\*\*

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

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

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

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

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

\*\*\*\*\*

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

Send an e-mail to: ftpmail@ftpmail.nws.noaa.gov  
Subject Line: Put anything you like  
Body: open  
cd data  
cd forecasts  
cd marine  
cd high\_seas  
get north\_pacific.txt  
get north\_atlantic.txt  
quit

HIGH SEAS FORECASTS

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

PRODUCT DESCRIPTION

FILE NAME

Northwest Atlantic Highseas (GMDSS Area IV)	<a href="#">north_atlantic.txt</a>
Northeast Pacific Highseas (GMDSS Area XII)	<a href="#">north_pacific.txt</a>
Peru Highseas (GMDSS Area XVI)	<a href="#">east_pacific_3.txt</a>
25S-0N, 160E-120W South Central Pacific	<a href="#">south_hawaii.txt</a>
30-60N, east of 160 E (p/o NE Pacific)	<a href="#">east_pacific_1.txt</a>
0-30N, E of 140W (p/o NE Pacific)	<a href="#">east_pacific_2.txt</a>
0-30N, 160E-140W (p/o NE Pacific)	<a href="#">north_hawaii.txt</a>



## FORECAST DISCUSSION

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

### Example:

```
Send an e-mail to:      ftpmail@ftpmail.nws.noaa.gov
Subject Line:          Put anything you like
Body:                  open
                       cd data
                       cd raw
                       cd ag
                       get agnt40.kwnm.mim.atn.txt
                       quit
```

## PRODUCT DESCRIPTION

## FILE NAME

Northwest Atlantic	<a href="#">agnt40.kwnm.mim.atn.txt</a>
Northeast Pacific	<a href="#">agpn40.kwnm.mim.pac.txt</a>
Gulf, Caribbean Sea & SW N. Atlantic	<a href="#">agxx40.knhc.mim.ats.txt</a>

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

## OFFSHORE FORECASTS

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

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

### Example:

```
Send an e-mail to:      ftpmail@ftpmail.nws.noaa.gov
Subject Line:          Put anything you like
Body:                  open
                       cd data
                       cd raw
                       cd fz
                       get fznt21.kwbc.off.nt1.txt
                       quit
```

## PRODUCT DESCRIPTION

## FILE NAME

New England	<a href="#">fznt21.kwbc.off.nt1.txt</a>
Mid-Atlantic	<a href="#">fznt22.kwbc.off.nt2.txt</a>
SW North Atlantic, Caribbean	<a href="#">fznt23.knhc.off.nt3.txt</a>
Short version for radio broadcast*	<a href="#">fznt31.knhc.off.n20.txt</a>
Gulf of Mexico	<a href="#">fznt24.knhc.off.nt4.txt</a>
Short version for radio broadcast*	<a href="#">fznt32.knhc.off.n21.txt</a>
Washington, Oregon	<a href="#">fzpn25.kwbc.off.pz5.txt</a>
California	<a href="#">fzpn26.kwbc.off.pz6.txt</a>
Eastern Gulf of Alaska	<a href="#">fzak67.pajk.off.ajk.txt</a>
Western Gulf of Alaska	<a href="#">fzak61.pafc.off.aer.txt</a>
Bering Sea	<a href="#">fzak62.pafc.off.alu.txt</a>
U.S. Arctic (Experimental)	<a href="#">fzak69.pafg.off.afg.txt</a>
Hawaii	<a href="#">fzhw60.phfo.off.hfo.txt</a>

\* Available after Apr 03, 2012

#### NAVTEX FORECASTS

These files may be found in directory:

ftp://tgftp.nws.noaa.gov/data/raw/fz/

Example:

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

#### PRODUCT DESCRIPTION

#### FILE NAME

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

#### OPEN LAKE FORECASTS

These files may be found in directory:

ftp://tgftp.nws.noaa.gov/data/raw/fz/

Example:

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

#### PRODUCT DESCRIPTION

#### FILE NAME

St. Lawrence	<a href="#">fzus61.kbuf.glf.sl.txt</a>
Lake Ontario	<a href="#">fzus61.kbuf.glf.lo.txt</a>
Lake Erie	<a href="#">fzus61.kcle.glf.le.txt</a>
Lake St. Clair	<a href="#">fzus63.kdtx.glf.sc.txt</a>
Lake Huron	<a href="#">fzus63.kdtx.glf.lh.txt</a>
Lake Michigan	<a href="#">fzus63.klot.glf.lm.txt</a>
Lake Superior	<a href="#">fzus63.kmqt.glf.ls.txt</a>

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

<http://www.nws.noaa.gov>

NWS Homepage

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

NWS Marine Page

[cell.weather.gov](http://cell.weather.gov) (WAP/WML browser required)

Cellphone page

[mobile.weather.gov](http://mobile.weather.gov)

Mobile Page

Author: Marine and Coastal Weather Services Branch, W/OS21

National Weather Service

Last Modified Dec 09, 2011

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

<ftp://tgftp.nws.noaa.gov/fax/marinel.txt>

NATIONAL WEATHER SERVICE MARINE TEXT PRODUCTS  
HURRICANE PRODUCTS

\*\*\*\* IMPORTANT NOTICES \*\*\*\*

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

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

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

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

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

\*\*\*\*\*

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

Send an e-mail to: ftpmail@ftpmail.nws.noaa.gov  
Subject Line: Put anything you like  
Body: open  
cd data  
cd hurricane\_products  
cd atlantic  
cd weather  
get outlook.txt  
cd /data  
cd hurricane\_products  
cd atlantic  
cd storm\_2  
get technical\_advisory.txt  
quit

ATLANTIC HURRICANE PRODUCTS

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

PRODUCT DESCRIPTION

FILE NAME

Tropical WX Outlook	<a href="/weather/outlook.txt">/weather/outlook.txt</a>
Tropical WX Discussion	<a href="/weather/discussion.txt">/weather/discussion.txt</a>
Tropical WX Summary	<a href="/weather/summary.txt">/weather/summary.txt</a>
Tropical WX Disturbance Stmt	<a href="/weather/advisory.txt">/weather/advisory.txt</a>
Tropical Cyclone Update (Storm #1)	<a href="/storm_1/update.txt">/storm_1/update.txt</a>

Tropical Cyclone Update (Storm #2)	<a href="/storm_2/update.txt">/storm_2/update.txt</a>
Tropical Cyclone Update (Storm #3)	<a href="/storm_3/update.txt">/storm_3/update.txt</a>
Tropical Cyclone Update (Storm #4)	<a href="/storm_4/update.txt">/storm_4/update.txt</a>
Tropical Cyclone Update (Storm #5)	<a href="/storm_5/update.txt">/storm_5/update.txt</a>
Tropical Cyclone Discussion (Storm #1)	<a href="/storm_1/discussion.txt">/storm_1/discussion.txt</a>
Tropical Cyclone Discussion (Storm #2)	<a href="/storm_2/discussion.txt">/storm_2/discussion.txt</a>
Tropical Cyclone Discussion (Storm #3)	<a href="/storm_3/discussion.txt">/storm_3/discussion.txt</a>
Tropical Cyclone Discussion (Storm #4)	<a href="/storm_4/discussion.txt">/storm_4/discussion.txt</a>
Tropical Cyclone Discussion (Storm #5)	<a href="/storm_5/discussion.txt">/storm_5/discussion.txt</a>
Public Advisory (Storm #1)	<a href="/storm_1/advisory.txt">/storm_1/advisory.txt</a>
Public Advisory (Storm #2)	<a href="/storm_2/advisory.txt">/storm_2/advisory.txt</a>
Public Advisory (Storm #3)	<a href="/storm_3/advisory.txt">/storm_3/advisory.txt</a>
Public Advisory (Storm #4)	<a href="/storm_4/advisory.txt">/storm_4/advisory.txt</a>
Public Advisory (Storm #5)	<a href="/storm_5/advisory.txt">/storm_5/advisory.txt</a>
Tropical Depression Forecast (Storm #1)	<a href="/storm_1/technical_advisory.txt">/storm_1/technical_advisory.txt</a>
Tropical Depression Forecast (Storm #2)	<a href="/storm_2/technical_advisory.txt">/storm_2/technical_advisory.txt</a>
Tropical Depression Forecast (Storm #3)	<a href="/storm_3/technical_advisory.txt">/storm_3/technical_advisory.txt</a>
Tropical Depression Forecast (Storm #4)	<a href="/storm_4/technical_advisory.txt">/storm_4/technical_advisory.txt</a>
Tropical Depression Forecast (Storm #5)	<a href="/storm_5/technical_advisory.txt">/storm_5/technical_advisory.txt</a>
Hurricane Probabilities (Storm #1)	<a href="/storm_1/strike_probability.txt">/storm_1/strike_probability.txt</a>
Hurricane Probabilities (Storm #2)	<a href="/storm_2/strike_probability.txt">/storm_2/strike_probability.txt</a>
Hurricane Probabilities (Storm #3)	<a href="/storm_3/strike_probability.txt">/storm_3/strike_probability.txt</a>
Hurricane Probabilities (Storm #4)	<a href="/storm_4/strike_probability.txt">/storm_4/strike_probability.txt</a>
Hurricane Probabilities (Storm #5)	<a href="/storm_5/strike_probability.txt">/storm_5/strike_probability.txt</a>
RECON Plan	TBD

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

#### EASTERN PACIFIC HURRICANE PRODUCTS

These files may be found in directory:

[ftp://tgftp.nws.noaa.gov/data/hurricane\\_products/eastern\\_pacific](ftp://tgftp.nws.noaa.gov/data/hurricane_products/eastern_pacific)

#### PRODUCT DESCRIPTION

#### FILE NAME

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

RECON Plan

TBD

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

#### CENTRAL PACIFIC HURRICANE PRODUCTS

These files may be found in directory:

ftp://tgftp.nws.noaa.gov/data/hurricane\_products/central\_pacific

#### PRODUCT DESCRIPTION

#### FILE NAME

Tropical WX Outlook	<a href="/weather/outlook.txt">/weather/outlook.txt</a>
Tropical WX Discussion	(discontinued)
Tropical WX Summary	<a href="/weather/summary.txt">/weather/summary.txt</a>
Tropical WX Disturbance Stmt	<a href="/weather/advisory.txt">/weather/advisory.txt</a>
Tropical Cyclone Update (Storm #1)	<a href="/storm_1/update.txt">/storm_1/update.txt</a>
Tropical Cyclone Update (Storm #2)	<a href="/storm_2/update.txt">/storm_2/update.txt</a>
Tropical Cyclone Update (Storm #3)	<a href="/storm_3/update.txt">/storm_3/update.txt</a>
Tropical Cyclone Update (Storm #4)	<a href="/storm_4/update.txt">/storm_4/update.txt</a>
Tropical Cyclone Update (Storm #5)	<a href="/storm_5/update.txt">/storm_5/update.txt</a>
Tropical Cyclone Discussion (Storm #1)	<a href="/storm_1/discussion.txt">/storm_1/discussion.txt</a>
Tropical Cyclone Discussion (Storm #2)	<a href="/storm_2/discussion.txt">/storm_2/discussion.txt</a>
Tropical Cyclone Discussion (Storm #3)	<a href="/storm_3/discussion.txt">/storm_3/discussion.txt</a>
Tropical Cyclone Discussion (Storm #4)	<a href="/storm_4/discussion.txt">/storm_4/discussion.txt</a>
Tropical Cyclone Discussion (Storm #5)	<a href="/storm_5/discussion.txt">/storm_5/discussion.txt</a>
Public Advisory (Storm #1)	<a href="/storm_1/advisory.txt">/storm_1/advisory.txt</a>
Public Advisory (Storm #2)	<a href="/storm_2/advisory.txt">/storm_2/advisory.txt</a>
Public Advisory (Storm #3)	<a href="/storm_3/advisory.txt">/storm_3/advisory.txt</a>
Public Advisory (Storm #4)	<a href="/storm_4/advisory.txt">/storm_4/advisory.txt</a>
Public Advisory (Storm #5)	<a href="/storm_5/advisory.txt">/storm_5/advisory.txt</a>
Tropical Depression Forecast (Storm #1)	<a href="/storm_1/technical_advisory.txt">/storm_1/technical_advisory.txt</a>
Tropical Depression Forecast (Storm #2)	<a href="/storm_2/technical_advisory.txt">/storm_2/technical_advisory.txt</a>
Tropical Depression Forecast (Storm #3)	<a href="/storm_3/technical_advisory.txt">/storm_3/technical_advisory.txt</a>
Tropical Depression Forecast (Storm #4)	<a href="/storm_4/technical_advisory.txt">/storm_4/technical_advisory.txt</a>
Tropical Depression Forecast (Storm #5)	<a href="/storm_5/technical_advisory.txt">/storm_5/technical_advisory.txt</a>
RECON PLAN	TBD

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

#### WESTERN PACIFIC HURRICANE PRODUCTS

These files may be found in directory:

http://tgftp.nws.noaa.gov/pub/data/raw/wt

Example:

Send an e-mail to: ftpmail@ftpmail.nws.noaa.gov  
Subject Line: Put anything you like  
Body: open  
cd data  
cd raw  
cd wt

```
get wtpq31.pgum.tcp.pq1.txt
quit
```

PRODUCT DESCRIPTION	FILE NAME
Public Advisory (Storm #1)	<a href="#">/wtpq31.pgum.tcp.pq1.txt</a>
Public Advisory (Storm #2)	<a href="#">/wtpq32.pgum.tcp.pq2.txt</a>
Public Advisory (Storm #3)	<a href="#">/wtpq33.pgum.tcp.pq3.txt</a>
Public Advisory (Storm #4)	<a href="#">/wtpq34.pgum.tcp.pq4.txt</a>
Public Advisory (Storm #5)	<a href="#">/wtpq35.pgum.tcp.pq5.txt</a>

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

#### WESTERN PACIFIC HURRICANE PRODUCTS (NAVY)

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

#### Example:

```
Send an e-mail to:      ftpmail@ftpmail.nws.noaa.gov
Subject Line:          Put anything you like
Body:                  open
                       cd data
                       cd raw
                       cd wt
                       get wtpn21.pgtw..txt
                       quit
```

PRODUCT DESCRIPTION	FILE NAME
NW Pacific Tropical Cyclone Formation Alert Storm #1	<a href="#">/wtpn21.pgtw..txt</a>
NW Pacific Tropical Cyclone Formation Alert Storm #2	<a href="#">/wtpn22.pgtw..txt</a>
NW Pacific Tropical Cyclone Formation Alert Storm #2	<a href="#">/wtpn23.pgtw..txt</a>
NW Pacific Tropical Cyclone Formation Alert Storm #4	<a href="#">/wtpn24.pgtw..txt</a>
NW Pacific Tropical Cyclone Formation Alert Storm #5	<a href="#">/wtpn25.pgtw..txt</a>
SW Pacific Tropical Cyclone Formation Alert Storm #1	<a href="#">/wtps21.pgtw..txt</a>
SW Pacific Tropical Cyclone Formation Alert Storm #2	<a href="#">/wtps22.pgtw..txt</a>
SW Pacific Tropical Cyclone Formation Alert Storm #3	<a href="#">/wtps23.pgtw..txt</a>
SW Pacific Tropical Cyclone Formation Alert Storm #4	<a href="#">/wtps24.pgtw..txt</a>
SW Pacific Trocical Cyclone Formation Alert Storm #5	<a href="#">/wtps25.pgtw..txt</a>
NW Pacific Tropical Cyclone Warning Storm #1	<a href="#">/wtpn31.pgtw..txt</a>
NW Pacific Tropical Cyclone Warning Storm #2	<a href="#">/wtpn32.pgtw..txt</a>
NW Pacific Tropical Cyclone Warning Storm #3	<a href="#">/wtpn33.pgtw..txt</a>
NW Pacific Tropical Cyclone Warning Storm #4	<a href="#">/wtpn34.pgtw..txt</a>
NW Pacific Tropical Cyclone Warning Storm #5	<a href="#">/wtpn35.pgtw..txt</a>
SW Pacific Tropical Cyclone Warning Storm #1	<a href="#">/wtpS31.pgtw..txt</a>
SW Pacific Tropical Cyclone Warning Storm #2	<a href="#">/wtpS32.pgtw..txt</a>
SW Pacific Tropical Cyclone Warning Storm #3	<a href="#">/wtpS33.pgtw..txt</a>
SW Pacific Tropical Cyclone Warning Storm #4	<a href="#">/wtpS34.pgtw..txt</a>
SW Pacific Tropical Cyclone Warning Storm #5	<a href="#">/wtpS35.pgtw..txt</a>

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

<http://www.nws.noaa.gov>

NWS Homepage

<http://www.nws.noaa.gov/om/marine/home.htm> NWS Marine Page  
[cell.weather.gov](http://cell.weather.gov) (WAP/WML browser required) Cellphone page  
[mobile.weather.gov](http://mobile.weather.gov) Mobile Page

Author: Marine and Coastal Weather Services Branch, W/OS21  
National Weather Service  
Last Modified May 28, 2010  
Document URL: <http://weather.noaa.gov/pub/fax/marine2.txt>  
<ftp://tgftp.nws.noaa.gov/fax/marine2.txt>



NATIONAL WEATHER SERVICE MARINE TEXT PRODUCTS  
COASTAL and NEARSHORE MARINE FORECASTS

\*\*\*\* IMPORTANT NOTICES \*\*\*\*

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

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

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

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

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

\*\*\*\*\*

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

Send an e-mail to: ftpmail@ftpmail.nws.noaa.gov  
Subject Line: Put anything you like  
Body: open  
cd data  
cd raw  
cd fz  
get fzus56.kmtr.cwf.mtr.txt  
quit

COASTAL and NEARSHORE MARINE FORECASTS

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

PRODUCT DESCRIPTION

FILE NAME

Caribou, ME	<a href="#">fzus51.kcar.cwf.car.txt</a>
Gray, ME	<a href="#">fzus51.kgyx.cwf.gyx.txt</a>
Taunton, MA	<a href="#">fzus51.kbox.cwf.box.txt</a>
New York, NY	<a href="#">fzus51.kokx.cwf.okx.txt</a>
Philadelphia, PA	<a href="#">fzus51.kphi.cwf.phi.txt</a>
Washington, DC	<a href="#">fzus51.klwx.cwf.lwx.txt</a>
Wakefield, VA	<a href="#">fzus51.kakq.cwf.akq.txt</a>
Newport/Morehead City, NC	<a href="#">fzus52.kmhx.cwf.mhx.txt</a>
Wilmington, NC	<a href="#">fzus52.kilm.cwf.ilm.txt</a>
Charleston, SC	<a href="#">fzus52.kchs.cwf.chs.txt</a>

Jacksonville, FL	<a href="#">fzus52.kjax.cwf.jax.txt</a>
Melbourne, FL	<a href="#">fzus52.kmlb.cwf.mlb.txt</a>
Miami, FL	<a href="#">fzus52.kmfl.cwf.mfl.txt</a>
Key West, FL	<a href="#">fzus52.kkey.cwf.key.txt</a>
San Juan, PR	<a href="#">fzca52.tjsj.cwf.sju.txt</a>
San Juan, PR (Spanish)	<a href="#">fzca52.tjsj.cwf.spn.txt</a>
Tampa, FL	<a href="#">fzus52.ktbw.cwf.tbw.txt</a>
Tallahasee, FL	<a href="#">fzus52.ktae.cwf.tae.txt</a>
Mobile, AL	<a href="#">fzus54.kmob.cwf.mob.txt</a>
New Orleans, LA	<a href="#">fzus54.klix.cwf.lix.txt</a>
Lake Charles, LA	<a href="#">fzus54.klch.cwf.lch.txt</a>
Houston/Galveston, TX	<a href="#">fzus54.khgx.cwf.hgx.txt</a>
Corpus Christi, TX	<a href="#">fzus54.kcrp.cwf.crp.txt</a>
Brownsville, TX	<a href="#">fzus54.kbro.cwf.bro.txt</a>
Seattle, WA	<a href="#">fzus56.ksew.cwf.sew.txt</a>
Portland, OR	<a href="#">fzus56.kpqr.cwf.pqr.txt</a>
Medford, OR	<a href="#">fzus56.kmfr.cwf.mfr.txt</a>
Eureka, CA	<a href="#">fzus56.keka.cwf.eka.txt</a>
San Francisco, CA	<a href="#">fzus56.kmtr.cwf.mtr.txt</a>
Los Angeles, CA	<a href="#">fzus56.klox.cwf.lox.txt</a>
San Diego, CA	<a href="#">fzus56.ksgx.cwf.sgx.txt</a>
Hawaii	<a href="#">fzhw50.phfo.cwf.hfo.txt</a>
Hawaii (Generalized)	<a href="#">fzhw50.phfo.cwf.hfo.txt</a>
Marianas (Guam)	<a href="#">fzmy50.pgum.cwf.my.txt</a>
East Micronesia	<a href="#">fzpq51.pgum.cwf.pq1.txt</a>
West Micronesia	<a href="#">fzpq52.pgum.cwf.pq2.txt</a>
Samoa	<a href="#">fzsz50.nstu.cwf.ppg.txt</a>
Buffalo, NY	<a href="#">fzus51.kbuf.nsh.buf.txt</a>
Cleveland, OH	<a href="#">fzus51.kcle.nsh.cle.txt</a>
Detroit/Pontiac, MI	<a href="#">fzus53.kdtx.nsh.dtx.txt</a>
Gaylord, MI	<a href="#">fzus53.kapx.nsh.apx.txt</a>
Grand Rapids, MI	<a href="#">fzus53.kgrr.nsh.grr.txt</a>
Northern Indiana, IN	<a href="#">fzus53.kiwx.nsh.ixw.txt</a>
Chicago, IL	<a href="#">fzus53.klot.nsh.lot.txt</a>
Milwaukee/Sullivan, WI	<a href="#">fzus53.kmkx.nsh.mkx.txt</a>
Green Bay, WI	<a href="#">fzus53.kgrb.nsh.grb.txt</a>
Marquette, MI	<a href="#">fzus53.kmqt.nsh.mqt.txt</a>
Duluth, MN	<a href="#">fzus53.kdlh.nsh.dlh.txt</a>
AK, SE Inner Coastal Waters	<a href="#">fzak51.pajk.cwf.ajk.txt</a>
AK, SE Outside Coastal Waters	<a href="#">fzak52.pajk.cwf.aeg.txt</a>
AK, Yakutat Bay	<a href="#">fzak57.paya.cwf.yak.txt</a>
AK, North Gulf Coast and Kodiak	<a href="#">fzak51.pafc.cwf.aer.txt</a>
AK, Valdez Arm and Narrows	<a href="#">fzak58.pavw.cwf.vws.txt</a>
AK, Chiniak and Marmot Bays	<a href="#">fzak58.padq.cwf.adq.txt</a>
Southwest AK and the Aleutians	<a href="#">fzak52.pafc.cwf.alu.txt</a>
Western AK	<a href="#">fzak52.pafg.cwf.wcz.txt</a>
Arctic Coast	<a href="#">fzak51.pafg.cwf.nsb.txt</a>
Sea Ice Advisory West & Arctic AK	<a href="#">fzak80.pafc.ice.afc.txt</a>

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

<a href="http://www.nws.noaa.gov">http://www.nws.noaa.gov</a>	NWS Homepage
<a href="http://www.nws.noaa.gov/om/marine/home.htm">http://www.nws.noaa.gov/om/marine/home.htm</a>	NWS Marine Page
<a href="http://cell.weather.gov">cell.weather.gov</a> (WAP/WML browser required)	Cellphone page
<a href="http://mobile.weather.gov">mobile.weather.gov</a>	Mobile Page

Author: Marine and Coastal Weather Services Branch, W/OS21  
National Weather Service  
Last Modified May 28, 2010  
Document URL: <http://weather.noaa.gov/pub/fax/marine3.txt>  
<ftp://tgftp.nws.noaa.gov/fax/marine3.txt>

## Marine Forecasts and Related Information Available via E-mail

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

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

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

```
Send an e-mail to:  ftpmail@ftpmail.nws.noaa.gov
Subject line:      Put anything you like
Body:              open
                   cd fax
                   get robots.txt
                   quit
```

>>>>FTPMAIL<<<<

\*\*\*\* IMPORTANT NOTICES \*\*\*\*

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

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

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

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

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

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

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

URLs = [http://polar.ncep.noaa.gov/waves/latest\\_run/xxxx.yyyyzzzz](http://polar.ncep.noaa.gov/waves/latest_run/xxxx.yyyyzzzz)  
e.g.  
[http://polar.ncep.noaa.gov/waves/latest\\_run/nww3\\_na.f024h.3.gif](http://polar.ncep.noaa.gov/waves/latest_run/nww3_na.f024h.3.gif)

where xxxx =  
"nww3\_at" Atlantic  
"nww3\_na" North Atlantic  
"wna" Western North Atlantic  
"wna\_ecg" WNA US coastal zoom (may no longer be operational)  
"nah" North Atlantic Hurricane  
"nah\_ecg" NAH US coastal zoom  
"nww3\_in" Indian Ocean  
"nww3\_pa" Pacific  
"nww3\_np" North Pacific  
"enp" Eastern North Pacific  
"enp\_haw" ENP Hawaii zoom  
"enp\_wc" ENP west coast zoom  
"nph" North Pacific Hurricane (may no longer be operational)  
"nph\_haw" NPH Hawaii zoom (may no longer be operational)  
"nph\_wc" NPH west coast zoom (may no longer be operational)  
"akw" Alaskan Waters

where "yyyy" = "h006" or "h000" for -6 or zero hour hindcasts  
where "yyyy" = "f006" to "f180" (multiples of 6 hours) for forecasts

where "zzzz" =  
"h.gif" Wave Height Forecast  
"h.2.gif" Wave Period and Direction Forecast  
"h.3.gif" Wind Speed and Direction Forecast

e.g. 24hr Wind Speed and Direction Forecast for North Atlantic =  
[http://polar.ncep.noaa.gov/waves/latest\\_run/nww3\\_na.f024h.3.gif](http://polar.ncep.noaa.gov/waves/latest_run/nww3_na.f024h.3.gif)  
(See SAILDOCS or OTHERS described below to retrieve via e-mail,  
file size ~ = 30k Bytes )

And similarly, to retrieve sea surface temperature and surface current forecasts from NOAA's for Real-Time Ocean Forecast System (Atlantic):

URLs = [http://polar.ncep.noaa.gov/ofs/aofs\\_images/large/aofs\\_zzz\\_yyyy\\_xxxx.png](http://polar.ncep.noaa.gov/ofs/aofs_images/large/aofs_zzz_yyyy_xxxx.png)  
e.g.  
[http://polar.ncep.noaa.gov/ofs/aofs\\_images/large/aofs\\_cur\\_f120\\_wnatlzoom.png](http://polar.ncep.noaa.gov/ofs/aofs_images/large/aofs_cur_f120_wnatlzoom.png)

where xxxx =  
"natl" North Atlantic  
"wnatl" Western North Atlantic  
"wnatlzoom" Western North Atlantic zoom  
"hurr" Gulf of Mexico

where yyyy =  
"nowcast", "f024", "f048", "f072", "f096" or "f120"

where "zzz" =  
"sst" Sea Surface Temperature (°C)  
"cur" Surface Current (magnitude m/sec)

>>>>National Hurricane Center Listserver<<<<  
Service no longer available. Use GovDelivery below as an alternate.  
Many National Hurricane Center Listserver user accounts were transferred  
to the GovDelivery service when this Listserver was terminated.

>>>>GovDelivery Email Updates<<<<  
The National Weather Service (NWS) operates an experimental service  
of email updates to provide NWS information. The number of products  
available using this service is currently relatively limited but  
does include many marine, hurricane and tsunami products.

To provide this, the services of GovDelivery, Inc. has been procured.  
GovDelivery provides similar services for a number of other government  
entities and offers unique ability to allow NWS customers to not only  
subscribe to NWS bulletins, but to also learn about email updates  
available from agencies with missions related to NWS.

To Sign up for NWS alerts and updates by email  
[https://service.govdelivery.com/service/multi\\_subscribe.html?code=USNWS](https://service.govdelivery.com/service/multi_subscribe.html?code=USNWS)

(Note, emails will be sent from the email address  
[nws.noaa@service.govdelivery.com](mailto:nws.noaa@service.govdelivery.com)  
- please set your email spam filter to accept emails from this  
address to ensure timely delivery).

To Unsubscribe from alerts and updates  
<https://service.govdelivery.com/service/user.html?code=USNWS>

To change or cancel subscriptions through the GovDelivery email service  
(or SMS messaging service) offered on NWS web sites (emails are sent  
from National Weather Service [nws.noaa@service.govdelivery.com](mailto:nws.noaa@service.govdelivery.com) ),  
please log in to your User Profile  
(<https://service.govdelivery.com/service/user.html?code=USNWS>)  
with your e-mail address/phone number.  
For questions or problems with the service, contact [support@govdelivery.com](mailto:support@govdelivery.com).

For Step by step instructions for ending subscriptions to mobile devices  
<http://www.weather.gov/emailupdates/unsubscribe.php>

To see the GovDelivery privacy policy for details on their privacy policy.  
[http://www.govdelivery.com/privacy\\_policy.php](http://www.govdelivery.com/privacy_policy.php)

This experiment is intended to explore methods to increase dissemination  
and availability of NWS information and to allow consolidation of several  
existing email dissemination systems and reduce duplication of effort  
within the agency.

You are encouraged to complete a short survey on this service  
<http://www.weather.gov/survey/nws-survey.php?code=emailupdates>

Details of the GovDelivery service may also be found at:  
<http://www.weather.gov/emailupdates/>

>>>>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.com/scripts/wl.exe?XH=LISTSERV.ILLINOIS.EDU>

Send an e-mail to: [ftpmail@ftpmail.nws.noaa.gov](mailto:ftpmail@ftpmail.nws.noaa.gov)  
Subject line: Put anything you like  
Body: open  
cd fax  
get uiuclist.txt  
quit

>>>>Hurricane Watch Net YahooGroup Listserver<<<<

This service is no longer operational

>>>>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](http://www.sailmail.com)) but is an independent service that can be used by anyone who agrees to the terms and conditions. To get started in using SAILDOCS, follow these simple directions to obtain further information, or see: <http://www.saildocs.com/>

Send an e-mail to: [info@saildocs.com](mailto:info@saildocs.com)  
Subject line: Put anything you like  
Body: Put anything you like

>>>>ExpressWeather - MailASail's Free Weather Service<<<<

ExpressWeather is a free, simple system to offer popular weather forecasts and charts by email. It aims to provide a deliberately limited subset of all the weather available, and only to provide the most useful forecasts in an easy to access format. For details send a blank email with a BLANK subject line to [weather@mailasail.com](mailto:weather@mailasail.com). (Remember that some email programs insert "No subject". This has to be deleted) or see <http://weather.mailasail.com/Franks-Weather/Text-Chart-Grib-Forecasts-From-Mailasail>

Send an e-mail to: [weather@mailasail.com](mailto:weather@mailasail.com)  
Subject line: Leave blank  
Body: Leave blank

>>>>NAVIMAIL<<<<

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

Send an e-mail to: ftpmail@ftpmail.nws.noaa.gov  
Subject line: Put anything you like  
Body: open  
cd fax  
get navimail.txt  
quit

>>>>U.S. NOTICES TO MARINERS BY E-MAIL<<<<

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

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

#### Privacy Act Advisory

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

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

Send an e-mail to: join-ntm@goldweb.nga.mil  
Subject line: Leave blank  
Body: Leave blank

>>>>U.S. COAST GUARD LOCAL NOTICES TO MARINERS (LNM) LISTSERVER<<<<

LNM's and other maritime related information are available via a one-way listserver at: <http://www.navcen.uscg.gov/?pageName=LNMListRegistration>

#### 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.

<a href="http://www.nws.noaa.gov">http://www.nws.noaa.gov</a>	NWS Homepage
<a href="http://www.nws.noaa.gov/om/marine/home.htm">http://www.nws.noaa.gov/om/marine/home.htm</a>	NWS Marine Page
<a href="http://cell.weather.gov">cell.weather.gov</a> (WAP/WML browser required)	Cellphone page
<a href="http://mobile.weather.gov">mobile.weather.gov</a>	Mobile Page

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

Last Modified Sep 07, 2011

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

<ftp://tgftp.nws.noaa.gov/fax/robots.txt>



# AMVER/SEAS

## In Pursuit of Safety At Sea

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

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

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

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

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

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

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

### **For Information on SEAS contact:**

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

### **For Information on AMVER contact:**

Ben Strong 1-212-668-7762 1-212-668-7684 (FAX)  
e-mail: [bmstrong@battery.ny.uscg.mil](mailto:bmstrong@battery.ny.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, Oceans, 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:

[marine.weather@noaa.gov](mailto:marine.weather@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>.

Note -As a result of budgetary constraints, these Marine Service Charts are no longer being updated and may contain outdated information. In some cases the amount and/or types of outdated information has resulted in the unfortunate situation that we can no longer justify continuing to make that chart available. Updated information can most often be found on the Marine Forecasts or NOAA Weather Radio webpages or from your Local Weather Forecast Office.

<u>Location</u>	<u>Number</u>
Eastport, ME to Montauk Point, NY	MSC-1
Montauk Point, NY to Manasquan, NJ	MSC-2
Manasquan, NJ to Cape Hatteras, NC	MSC-3
Cape Hatteras, NC to Savannah, GA	MSC-4
Savannah, GA to Apalachicola, FL	MSC-5
Apalachicola, FL to Morgan City, LA	MSC-6
Morgan City, LA to Brownsville, TX	MSC-7
Mexican Border to Point Conception, CA	MSC-8
Point Conception, CA to Point St George, CA	MSC-9
Point St George, CA to Canadian Border	MSC-10
Great Lakes	MSC-11/12
Hawaiian Waters	MSC-13
Puerto Rico and Virgin Islands	MSC-14 (No longer available)
Alaskan Waters	MSC-15
Guam and the Northern Mariana Islands	MSC-16

### ***OTHER PUBLICATIONS OF VALUE TO THE MARINER***

#### **NOAA PUBLICATIONS**

[Mariner's Weather Log Magazine](#) - \$19.00/3 issues/yr (\$26.60 foreign)<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](#) (05/10) Free<sup>6</sup>

[Marine Report User Guide](#)

[Worldwide Marine Radiofacsimile Broadcast Schedules](#) (Feb 10, 2012) Free<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>

[National Ocean Service Coast Pilot, Volumes 1-9](#)<sup>1</sup>

[Directory of Private Weather Services](#) - Free<sup>10</sup>

[Mariners Guide for Hurricane Awareness in the North Atlantic Basin](#) (2.3 MB PDF)

#### **NOAA SEA GRANT PUBLICATIONS**

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

[Lightning & sailboats](#) (NOAA/Sea Grant FLSGP-G-92-001)

[Beach safety: protect yourself from lightning](#) (NOAA/Sea Grant DELU-G-90-003)

[Inadequacies in the US code for lightning protection of boats](#) (NOAA/Sea Grant FLSGP-R-89-018)

[BOATING - LIGHTNING PROTECTION](#) (NOAA/Sea Grant FLSGP-G-85-001)

[LIGHTNING: GROUNDING YOUR BOAT](#) (NOAA/Sea Grant MDU-G-80-001)

[LIGHTNING CONE OF PROTECTION](#) (NOAA/Sea Grant MICHU-G-80-001)

[Rip currents! Break the grip of the rip](#) (NOAA/Sea Grant DELU-G-05-005)

[STARFISHER'S LAST VOYAGE](#) (NOAA/Sea Grant ORESU-G-75-004)

[Safe boating tips \(fact sheet\)](#) (NOAA/Sea Grant PENN-G-03-002)

## **NGA PUBLICATIONS**

[NGA Publication 117 "Radio Navigational Aids" \(2005\)...Includes CD](#) <sup>13</sup>

[American Practical Navigator](#) (Bowditch) 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>13</sup>

[U.S. Notices to Mariners #1, Special Notice to Mariners Paragraphs](#) <sup>13</sup>

## **U.S. COAST GUARD PUBLICATIONS**

Reserved

## **NAVY PUBLICATIONS**

[U.S. NAVY Hurricane Havens/Heavy Weather Handbooks](#)

## **Non-U.S. GOVERNMENT PUBLICATIONS**

[Canadian Coast Guard Radio Aids to Navigation](#) - \$18.95 Cdn

The British Admiralty List of Radio 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 (2 Parts)

Volume 4 Meteorological Observation Stations

Volume 5 Global Maritime Distress and Safety Systems

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

## **INTERNATIONAL PUBLICATIONS**

[TSUNAMI The Great Waves](#) - Free <sup>11</sup>

[The SafetyNET Users Handbook](#) - Free

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>

World Meteorological Organization Publication 9 - Weather Reporting <sup>15</sup>

[Volume A - Observing Stations](#)

[Volume C1 - Meteorological Bulletins](#)

[Volume C2 - Transmission Programmes \(Includes broadcast information\)](#)

[Volume D - Information for Shipping \(Includes broadcast information\)](#)

1. FAA, National Aeronautical Charting Office

Distribution Division, AJW-3550

10201 Good Luck Road

Glenn Dale, Maryland 20769

(301) 436-8301

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

(301) 436-6829 FAX

Email: [9-AMC-chartsales@faa.gov](mailto: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.vos.noaa.gov/mwl.shtml>  
(Distributed free to ships in VOS program)  
Click [here](#) for the GPO printed order form  
Click [here](#) for the GPO online order form
4. PDF only, no longer printed  
<http://www.nws.noaa.gov/om/marine/rfax.pdf>  
[marine.weather@noaa.gov](mailto:marine.weather@noaa.gov)
6. (Some publications available only to ships participating in U.S. VOS program)  
National Weather Service  
Voluntary Observing Ship Operations Manager  
John Wasserman  
NDBC Bldg #1100  
Stennis Space Center, MS 39529  
(228) 688-1818  
(228) 688-3153 (fax)  
[John.Wasserman@noaa.gov](mailto:John.Wasserman@noaa.gov)  
<http://www.vos.noaa.gov>
8. UK Hydrographic Office  
Admiralty Way, Tauton, Somerset  
TA1 2DNm United Kingdom  
+44(0) 1823 337900 x3333  
+44(0) 1823 323753 FAX  
[info@hydro.gov.uk](mailto:info@hydro.gov.uk)  
<http://www.ukho.gov.uk>  
<http://www.ukho.gov.uk/amd/distributorsList.asp> (Distributors)
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](mailto:nws.im@noaa.gov)  
<http://www.nws.noaa.gov/im/>
11. International Tsunami Information Centre  
737 Bishop St. Suite 2200  
Honolulu, HI 96813-3213  
808-532-6422  
808-532-5576 (FAX)  
[itic@itic.noaa.gov](mailto:itic@itic.noaa.gov)  
<http://www.prh.noaa.gov/itic/>

**12. International Maritime Organization (IMO)**

4 Albert Embankment

London SE1 7SR UK

+44 207 7357611

+44 207 5873210 FAX (general enquiries)

+44 207 5873241 FAX (publication sales)

Telex: 23588

[info@imo.org](mailto:info@imo.org)

<http://www.imo.org>

13. Available on-line and no longer printed by U.S. Government. Many NGA publications available from commercial vendors, see [NGA webpage](#) for references.

**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](mailto:wmopubs@ametsoc.org)

[http://www.wmo.int/e-catalog/index\\_en.php?SORT=N&q](http://www.wmo.int/e-catalog/index_en.php?SORT=N&q)

# Points of Contact

## U.S. Port Meteorological Officers

### Headquarters

John Wasserman  
Voluntary Observing Ship Program  
Manager  
National Data Buoy Center  
Building 3203  
Stennis Space Center, MS 39529-6000  
Tel: 228-688-1818  
Fax: 228-688-3923  
E-mail: [john.wasserman@noaa.gov](mailto:john.wasserman@noaa.gov)

Paula Rychtar  
Voluntary Observing Ship Program  
Manager  
National Data Buoy Center  
Building 3203  
Stennis Space Center, MS 39529-6000  
Tel: 228-688-1457  
Fax: 228-688-3923  
E-mail: [paula.rychtar@noaa.gov](mailto:paula.rychtar@noaa.gov)

### Atlantic Ports

David Dellinger  
National Weather Service, NOAA  
2550 Eisenhower Blvd., Suite 312  
Fort Lauderdale, FL 33316-0067  
Tel: 954-463-4271  
Fax: 954-462-8963  
E-mail: [david.dellinger@noaa.gov](mailto:david.dellinger@noaa.gov)

Peter Gibino, PMO  
National Weather Service, NOAA  
4034-B Geo. Wash. Mem. Hwy.  
Yorktown, VA 23692-2724  
Tel: 757-877-1692  
Fax: 757-877-9561  
E-mail: [peter.gibino@noaa.gov](mailto:peter.gibino@noaa.gov)

Robert Niemeyer  
National Weather Service, NOAA  
13701 Fang Road Jacksonville, FL 32218-  
7933  
Tel: 904-741-5186 Ext. 117  
Fax: 904-741-0078  
E-mail: [robert.niemeyer@noaa.gov](mailto:robert.niemeyer@noaa.gov)

Lori Evans, PMO  
National Weather Service, NOAA  
Maritime Center I, Suite 287  
2200 Broening Highway  
Baltimore, MD 21224-6623  
Tel: 410-633-4709  
Fax: 410-633-4713  
E-mail: [lori.evans@noaa.gov](mailto:lori.evans@noaa.gov)

Tim Kenefick, PMO  
NOAA Coastal Services Center  
2234 South Hobson Avenue  
Charleston, SC 29405-2413  
Tel: 843-740-1281  
Fax: 843-740-1289  
E-mail: [timothy.kenefick@noaa.gov](mailto:timothy.kenefick@noaa.gov)

Jim Luciani, PMO  
New York/New Jersey  
National Weather Service, NOAA  
110 Main Street, Suite 201  
South Amboy, NJ 08879-1367  
Tel: 732-316-5409  
Fax: 732-316-7643  
E-mail: [james.luciani@noaa.gov](mailto:james.luciani@noaa.gov)

## Great Lakes Ports

Ron Williams, PMO  
National Weather Service, NOAA  
5027 Miller Trunk Highway  
Duluth, MN 55811-1442  
Tel: 218-729-0651  
Fax: 218-729-0690  
E-mail: [ronald.williams@noaa.gov](mailto:ronald.williams@noaa.gov)

## Gulf of Mexico Ports

VACANT  
c/o NOAA Fisheries  
P.O. Drawer 1207  
Pascagoula, MS 39568-1207  
Tel: 504-289-2294  
E-mail:

Chris Fakes, PMO  
National Weather Service, NOAA  
1353 FM646  
Suite 202  
Dickinson, TX 77539  
Tel: 281-534-2640 Ext. 277  
Fax: 281-534-4308  
E-mail: [chris.fakes@noaa.gov](mailto:chris.fakes@noaa.gov)



## Pacific Ports

Derek LeeLoy  
Ocean Services Program Coordinator  
National Weather Service Pacific Region  
HQ  
Grosvenor Center, Mauka Tower  
737 Bishop Street, Suite 2200  
Honolulu, HI 96813-3201  
Tel: 808-532-6439  
Fax: 808-532-5569  
E-mail: [derek.leeloy@noaa.gov](mailto:derek.leeloy@noaa.gov)

Brian Holmes  
National Weather Service, NOAA  
501 West Ocean Blvd., Room 4480  
Long Beach, CA 90802-4213  
Tel: 562-980-4090  
Fax: 562-436-1550  
E-mail: [brian.holmes@noaa.gov](mailto:brian.holmes@noaa.gov)

Daniel Curtis  
National Weather Service, NOAA  
1301 Clay Street, Suite 1190N  
Oakland, CA 94612-5217  
Tel: 510-637-2960  
Fax: 510-637-2961  
E-mail: [daniel.curtis@noaa.gov](mailto:daniel.curtis@noaa.gov)

Matt Thompson  
National Weather Service, NOAA  
7600 Sand Point Way, N.E., BIN C15700  
Seattle, WA 98115-6349  
Tel: 206-526-6100  
Fax: 206-526-4571 or 6094  
E-mail: [pmosea@noaa.gov](mailto:pmosea@noaa.gov)

Richard Courtney  
National Weather Service, NOAA  
600 Sandy Hook Street, Suite 1  
Kodiak, AK 99615-6814  
Tel: 907-487-2102  
Fax: 907-487-9730  
E-mail: [richard.courtney@noaa.gov](mailto:richard.courtney@noaa.gov)

Peggy Perales  
National Weather Service, NOAA,  
Box 427  
Valdez, AK 99686-0427  
Tel: 907-835-4505  
Fax: 907-835-4598  
E-mail: [peggy.perales@noaa.gov](mailto:peggy.perales@noaa.gov)

Larry Hubble  
National Weather Service Alaska Region  
222 West 7th Avenue #23  
Anchorage, AK 99513-7575  
Tel: 907-271-5135  
Fax: 907-271-3711  
E-mail: [larry.hubble@noaa.gov](mailto:larry.hubble@noaa.gov)

U.S. Coast Guard AMVER Center  
Ben Strong, AMVER Maritime Relations  
Officer, United States Coast Guard  
Battery Park Building  
New York, NY 10004  
Tel: 212-668-7762  
Fax: 212-668-7684  
E-mail: [bmstrong@battery.ny.uscg.mil](mailto:bmstrong@battery.ny.uscg.mil)

#### SEAS Field Representatives

#### AOML SEAS Program Manager

Dr. Gustavo Goni  
AOML  
4301 Rickenbacker Causeway  
Miami, FL 33149-1026  
Tel: 305-361-4339  
Fax: 305-361-4412  
E-mail: [gustavo.goni@noaa.gov](mailto:gustavo.goni@noaa.gov)

#### Northeast Atlantic SEAS Rep.

Jim Farrington  
SEAS Logistics/AMC  
439 West York Street  
Norfolk, VA 23510  
Tel: 757-441-3062  
Fax: 757-441-6495  
E-mail: [james.w.farrington@noaa.gov](mailto:james.w.farrington@noaa.gov)

#### Pacific Northwest SEAS Rep.

Steve Noah  
SEAS Logistics/PMC  
Olympic Computer Services, Inc.  
Tel: 360-385-2400  
Cell: 425-238-6501  
E-mail: [snoah@olycomp.com](mailto:snoah@olycomp.com) or  
[KARSTENO@aol.com](mailto:KARSTENO@aol.com)

#### Southwest Pacific SEAS Rep.

Carrie Wolfe  
Southern California Marine Institute  
820 S. Seaside Avenue  
San Pedro, Ca 90731-7330  
Tel: 310-519-3181  
Fax: 310-519-1054  
E-mail: [hbbio048@csun.edu](mailto:hbbio048@csun.edu)

#### Southeast Atlantic SEAS Rep.

Francis Bringas  
AOML/GOSO Center  
4301 Rickenbacker Causeway  
Miami, FL 33149-1026  
Tel: 305-361-4332  
Fax: 305-361-4412  
E-mail: [francis.bringas@noaa.gov](mailto:francis.bringas@noaa.gov)

#### Global Drifter Program

Shaun Dolk  
AOML/PHOD  
4301 Rickenbacker Causeway  
Miami, FL 33149-1026  
Tel: 305-361-4446  
Fax: 305-361-4366  
E-mail: [shaun.dolk@noaa.gov](mailto:shaun.dolk@noaa.gov)

#### Drifter Program Manager

Dr. Rick Lumpkin  
AOML/PHOD  
4301 Rickenbacker Causeway  
Miami, FL 33149-1026  
Tel: 305-361-4513  
Fax: 305-361-4412  
E-mail: [rick.lumpkin@noaa.gov](mailto:rick.lumpkin@noaa.gov)

#### ARGO Program Manager

Dr. Claudia Schmid  
AOML/PHOD  
4301 Rickenbacker Causeway  
Miami, FL 33149-1026  
Tel: 305-361-4313  
Fax: 305-361-4412  
E-mail: [claudia.schmid@noaa.gov](mailto:claudia.schmid@noaa.gov)

# Other Port Meteorological Officers

## ARGENTINA

Mario J. Garcia, Jefe del Dto. Redes  
Servicio Meteorológico Nacional  
25 de Mayo 658 (C1002ABN)  
Buenos Aires  
Argentina  
Tel: +54-11 4514 1525  
Fax: +54-11 5167 6709  
E-mail: [garcia@meteofa.mil.ar](mailto:garcia@meteofa.mil.ar)

## AUSTRALIA

### Head Office

Graeme Ball, Mgr.,  
Marine Observations Group  
Bureau of Meteorology  
GPO Box 1289K  
Melbourne, VIC 3001  
Australia  
Tel: +61-3 9669 4203  
Fax: +61-3 9669 4168  
E-mail: [smmo@bom.gov.au](mailto:smmo@bom.gov.au)  
Group E-mail: [marine\\_obs@bom.gov.au](mailto:marine_obs@bom.gov.au)

### Fremantle

Malcolm (Mal) Young, PMA  
c/o Bureau of Meteorology  
PO Box 1370  
West Perth WA 6872  
Australia  
Tel: +61-8 9474 1974  
Fax: +61-8 6210 1801  
E-mail: [PMA.Fremantle@bom.gov.au](mailto:PMA.Fremantle@bom.gov.au)

### Melbourne

Albert Dolman, PMA  
c/o Bureau of Meteorology  
GPO Box 1636M  
Melbourne, Vic. 3001  
Australia  
Tel: +61-4 3858 7341  
Fax: +61-3 5229 5432  
E-mail: [PMA.Melbourne@bom.gov.au](mailto:PMA.Melbourne@bom.gov.au)

### Sydney

Capt. Einion E. (Taffy) Rowlands, PMA  
c/o Bureau of Meteorology  
GPO Box 413  
Darlinghurst NSW 1300  
Australia  
Tel: +61-2 9296 1547  
Fax: +61-2 9296 1648  
E-mail: [PMA.Sydney@bom.gov.au](mailto:PMA.Sydney@bom.gov.au)

## CANADA

### Canadian Headquarters

Gerie Lynn Lavigne, Life Cycle Manager  
Marine Networks, Environment Canada  
4905 Dufferin Street  
Toronto, Ontario  
Canada M3H 5T4  
Tel: +1-416 739 4561  
Fax: +1-416 739 4261  
E-mail: [gerielynn.lavigne@ec.gc.ca](mailto:gerielynn.lavigne@ec.gc.ca)

### British Columbia

Hamid Nasr, PMO, Environment Canada  
140-13160 Vanier Place  
Richmond, British Columbia V6V 2J2  
Canada  
Tel: +1-604 713 9523  
Cell: +1-604 839 8630  
Fax: +1-604 664 4094  
E-mail: [hamid.nasr@ec.gc.ca](mailto:hamid.nasr@ec.gc.ca)

### Newfoundland

Andrew Dwyer, PMO  
Environment Canada  
6 Bruce Street  
St Johns, Newfoundland A1N 4T3  
Canada  
Tel: 1+-709 772 4798  
Fax: 1+709 772 5097  
E-mail: [andre.dwyer@ec.gc.ca](mailto:andre.dwyer@ec.gc.ca)

### Nova Scotia

Randy Sheppard, PMO  
Meteorological Service of Canada  
16th Floor, 45 Aldernay Drive  
Dartmouth, Nova Scotia B2Y 2N6  
Canada  
Tel: 1+902 426 6703  
E-mail: [randy.sheppard@ec.gc.ca](mailto:randy.sheppard@ec.gc.ca)

### Ontario

Tony Hilton , Supervisor PMO, Rick  
Shukster, PMO & Roland Kleer, PMO  
Environment Canada  
Meteorological Service of Canada  
100 East Port Blvd.  
Hamilton, Ontario L8H 7S4 Canada  
Tel: +1-905 312 0900  
Fax: +1-905 312 0730  
E-mail:  
[tony.hilton@ec.gc.ca](mailto:tony.hilton@ec.gc.ca) [roland.kleer@ec.gc.ca](mailto:roland.kleer@ec.gc.ca)  
[rick.shukster@ec.gc.ca](mailto:rick.shukster@ec.gc.ca)

### Quebec

Erich Gola, PMO  
Meteorological Service of Canada-Quebec  
Region  
100 Alexis Nihon, Suite 300, 3rd Floor  
Montreal, Quebec H4M 2N8  
Tel: 514-283-1644  
514-386-8269  
Fax: 514-496-1867  
E-mail: [erich.gola@ec.gc.ca](mailto:erich.gola@ec.gc.ca)

## CHINA

YU Zhaoguo  
Shanghai Meteorological Bureau  
166 Puxi Road  
Shanghai, China

## CROATIA

### Port of Split

Captain Zeljko Sore  
Marine Meteorological Office-Split  
P.O. Box 370  
Glagoljaska 11  
HR-21000 Split  
Croatia  
Tel: +385-21 589 378  
Fax: +385-21 591 033 (24 hours)  
E-mail: [sore@cirus.dhz.hr](mailto:sore@cirus.dhz.hr)

### Port of Rijeka

Smiljan Viskovic  
Marine Meteorological Office-Rijeka  
Riva 20  
HR-51000 Rijeka  
Croatia  
Tel: +385-51 215 548  
Fax: +385-51 215 574

## DENMARK

Cmdr Roi Jespersen, PMO & Cmdr Harald R. Joensen, PMO  
Danish Meteorological Inst., Observation Dept  
Surface and Upper Air Observations Division  
Lyngbyvej 100  
DK-2100 Copenhagen  
Denmark  
Tel: +45 3915 7337  
Fax: +45 3915 7390  
E-mail: [rj@dmi.dk](mailto:rj@dmi.dk)  
[hrj@dmi.dk](mailto:hrj@dmi.dk)

## FALKLANDS

Captain R. Gorbutt, Marine Officer  
Fishery Protection Office  
Port Stanley  
Falklands  
Tel: +500 27260  
Fax: +500 27265  
Telex: 2426 FISHDIR FK

# FRANCE

## Headquarters

André Péries, PMO Supervisor  
Météo-France DSO/RESO/PMO  
42, Avenue Gustave Coriolis  
31057 Toulouse Cédex  
France  
Tel: +33-5 61 07 98 54  
Fax: +33-5 61 07 98 69  
E-mail: [andre.peries@meteo.fr](mailto:andre.peries@meteo.fr)

## Boulogne-sur-mer

Gérard Doligez  
Météo-France DDM62  
17, boulevard Sainte-Beuve  
62200 Boulogne-sur-mer  
France  
Tel: +33-3 21 10 85 10  
Fax: +33-2 21 33 33 12  
E-mail: [gerard.doligez@meteo.fr](mailto:gerard.doligez@meteo.fr)

## Brest

Louis Stéphan, Station Météorologique  
16, quai de la douane  
29200 Brest  
France  
Tel: +33-2 98 44 60 21  
Fax: +33-2 98 44 60 21

## La Réunion

Yves Morville, Station Météorologique  
Port Réunion  
France  
Fax: +262 262 921 147  
Telex: 916797RE  
E-mail: [dirre@meteo.fr](mailto:dirre@meteo.fr)  
[meteo.france.leport@wanadoo.fr](mailto:meteo.france.leport@wanadoo.fr)

## Le Havre

Andre Devatine, Station Météorologique  
Nouveau Sémaphore  
Quai des Abeilles  
76600 Le Havre  
France  
Tel: +33-2 32 74 03 65  
Fax: +33 2 32 74 03 61  
E-mail: [andre.devatine@meteo.fr](mailto:andre.devatine@meteo.fr)

## Marseille

Michel Perini, PMO  
Météo-France / CDM 13  
2A BD du Château-Double  
13098 Aix en Provence Cédex 02  
France  
Tel: +00 33 (0)4 42 95 25 42  
Fax: +00 33 (0)4 42 95 25 49  
E-mail: [michel.perini@meteo.fr](mailto:michel.perini@meteo.fr)

## Montoir de Bretagne

Jean Beaujard, Station Météorologique  
Aérodrome de Saint-Nazaire-Montoir  
44550 Montoir de Bretagne  
France  
Tel: +33-2 40 17 13 17  
Fax: +33-2 40 90 39 37

## New Caledonia

Henri Lévêque, Station Météorologique  
BP 151  
98845 Noumea Port  
New Caledonia  
France  
Tel: +687 27 30 04  
Fax: +687 27 42 95

## GERMANY

### Headquarters

Volker Weidner, PMO Advisor  
Deutscher Wetterdienst  
Met. Hafendienst  
Bernhard-Nocht-Str. 76  
D - 20359 Hamburg  
Tel: +49 40 6690 1410

### Bremerhaven

Henning Hesse, PMO  
Deutscher Wetterdienst  
An der Neuen Schleuse 10b  
D-27570 Bremerhaven  
Germany  
Tel: +49-471 70040-18  
Fax: +49-471 70040-17  
E-mail: [pmo@dwd.de](mailto:pmo@dwd.de)

### Hamburg

Horst von Bargaen, PMO  
Matthias Hoigt, Susanne Ripke, Deutscher  
Wetterdienst  
Met. Hafendienst Bernhard-Nocht-Strasse  
76  
D - 20359 Hamburg  
Germany  
Tel: +49-40 6690 1411/1412/1421  
Fax: +49 40 6990 1496  
E-mail: [pmo@dwd.de](mailto:pmo@dwd.de)

### Rostock

Christel Heidner, PMO  
Deutscher Wetterdienst  
Seestrassse 15a  
D-18119 Rostock  
Germany  
Tel: +49 381 5438830  
Fax: +49 381 5438863  
E-mail: [pmo@dwd.de](mailto:pmo@dwd.de)

## GILBRALTAR

Principal Meteorological Officer  
Meteorological Office  
RAF Gibraltar BFPO 52  
Gibraltar  
Tel: +350 53419  
Fax: +350 53474

## GREECE

Michael Myrsilidis, Marine Meteorology Section  
Hellenic National Meteorological Service (HNMS)  
El, Venizelou 14  
16777 Hellinikon  
Athens  
Greece  
Tel: +30-10 9699013  
Fax: +30-10 9628952, 9649646  
E-mail: [mmirsi@hnms.gr](mailto:mmirsi@hnms.gr)

## **HONG KONG, CHINA**

Wing Tak Wong, Senior Scientific Officer  
Hong Kong Observatory  
134A Nathan Road  
Kowloon  
Hong Kong, China  
Tel: +852 2926 8430  
Fax: +852 2311 9448  
E-mail: [wtwong@hko.gov.hk](mailto:wtwong@hko.gov.hk)

## **ICELAND**

Hreinn Hjartarson, Icelandic Met. Office  
Bústadavegur 9  
IS-150 Reykjavik  
Iceland  
Tel: +354 522 6000  
Fax: +354 522 6001  
E-mail: [hreinn@vedur.is](mailto:hreinn@vedur.is)

## **INDIA**

### **Calcutta**

Port Meteorological Office  
Alibnagar, Malkhana Building  
N.S. Dock Gate No. 3  
Calcutta 700 043  
India  
Tel: +91-33 4793167

### **Chennai**

Port Meteorological Office  
10th Floor, Centenary Building  
Chennai Port Trust, Rajaji Road  
Chennai 600 001  
India  
Tel: +91-44 560187

### **Fort Mumbai**

Port Meteorological Office  
3rd Floor, New Labour Hamallage  
Building  
Yellow Gate, Indira Doct  
Fort Mumbai 400 001  
India  
Tel: +91-2613733

### **Goa**

PMO, Port Meteorological Liaison Office  
Sada, P.O., Head Land Sada  
Goa 403 804  
India  
Tel: +91-832 520012

### **Kochi**

Port Meteorological Office  
Cochin Harbour, North End, Wellington  
Island  
Kochi 682 009  
India  
Tel: +91-484 667042

### **Visakhapatnam**

Port Meteorological Office  
c/o The Director, Cyclone Warning Centre  
Chinna Waltair  
Visakhapatnam 530 017. Andhra Pradesh  
India  
Tel: +91-891 746506



# INDONESIA

## Belawan

Stasiun Meteorologi Maritim Belawan  
Jl. Raya Pelabuhan III  
Belawan - 20414  
Indonesia  
Tel: +62-21 6941851  
Fax: +62-21 6941851

## Bitung

Stasiun Meteorologi Maritim Bitung  
Jl. Kartini No. 1  
Bitung - 95524  
Indonesia  
Tel: +62-438 30989  
Fax: +62-438 21710

## Jakarta

Mochamad Rifangi  
Meteorological and Geophysical Agency  
Jl. Angkasa I No. 2 Kemayoran  
Jakarta - 10720  
Indonesia  
Tel: +62-21 4246321  
Fax: +62-21 4246703

## Stasiun Meteorologi Maritim Tanjung Priok

Jl. Padamarang Pelabuhan  
Tanjung Priok  
Jakarta - 14310  
Indonesia  
Tel: +62-21 4351366  
Fax: +62-21 490339

## Makassar

Stasiun Meteorologi Maritim Makassar  
Jl. Sabutung I No. 20 Paotere  
Makassar  
Indonesia  
Tel: +62-411 319242  
Fax: +62-411 328235

## Semarang

Stasiun Meteorologi Maritim Semarang  
Jl. Deli Pelabuhan  
Semarang - 50174  
Indonesia  
Tel: +62-24 3549050  
Fax: +62-24 3559194

## Surabaya

Stasiun Meteorologi Maritim Surabaya  
Jl. Kalimas baru No. 97B  
Surabaya - 60165  
Indonesia  
Tel: +62-31 3291439  
Fax: +62-31 3291439

## IRELAND

### Cork

Brian Doyle, PMO  
Met Eireann  
Cork Airport  
Cork  
Ireland  
Tel: +353-21 4917753  
Fax: +353-21 4317405

### Donegal

Paddy Delaney, Station Manager  
Met Eireann  
Cork Airport  
MalinHead  
Lifford  
Co. Donegal  
Ireland

### Dublin

Columba Creamer, Marine Unit  
Met Eireann  
Glasnevin Hill  
Dublin 9  
Ireland

### Mayo

Andy Clohessy, Station Manager  
Connaught International Airport  
Charleston  
Co. Mayo  
Ireland

### Wexford

Dennis O. Mahoney, Station Manager  
Met Eireann  
Rossiare Harbour  
Wexford  
Ireland  
Tel: +353-53 33113  
Fax: +353-53 33105  
E-mail: [met.rossiarre@eircom.net](mailto:met.rossiarre@eircom.net)

## ISRAEL

### Ashdod

Aharon Ofir, PMO  
Marine Department  
Ashdod Port  
Tel: 972 8 8524956

### Haifa

Hani Arbel, PMO  
Haifa Port  
Tel: 972 4 8664427

## JAPAN

### Headquarters

Dr. Kazuhiko Hayashi, Scientific Officer  
Marine Div., Climate and Marine Dept.  
Japan Meteorological Agency  
1-3-4 Otemachi, Chiyoda-ku  
Tokyo, 100-8122  
Japan  
Tel: +81-3 3212 8341 ext. 5144  
Fax: +81-3 3211 6908  
Email: [hayashik@met.kishou.go.jp](mailto:hayashik@met.kishou.go.jp)  
[VOS@climar.kishou.go.jp](mailto:VOS@climar.kishou.go.jp)

### Kobe

Port Meteorological Officer  
Kobe Marine Observatory  
1-4-3, Wakinohamakaigan-dori, Chuo-ku  
Kobe 651-0073  
Japan  
Tel: +81-78 222 8918  
Fax: +81-78 222 8946

### Nagoya

Port Meteorological Officer  
Nagoya Local Meteorological Observatory  
2-18, Hiyori-ho, Chigusa-ku  
Nagoya, 464-0039  
Japan  
Tel: +81-52 752 6364  
Fax: +81-52 762-1242

### Yokohama

Port Meteorological Officer  
Yokohama Local Meteorological  
Observatory  
99 Yamate-cho, Naka-ku  
Yokohama, 231-0862  
Japan  
Tel: +81-45 621 1991  
Fax: +81-45 622 3520  
Telex: 2222163

## KENYA

Ali Juma Mafimbo, PMO  
PO Box 98512  
Mombasa  
Kenya  
Tel: +254-11 225687 / 433689  
Fax: +254-11 433689  
E-mail: [mafimbo@lion.meteo.go.ke](mailto:mafimbo@lion.meteo.go.ke)

## MALASYA

### Port Bintulu

Paul Chong Ah Poh, PMO  
Bintulu Meteorological Station  
P.O. Box 285  
97007 Bintulu  
Sarawak  
Malaysia  
Fax: +60-86 314 386

### Port Klang

Mohd Shah Ani, PMO  
Malaysian Meteorological Service  
Jalan Sultan  
46667 Petaling Jaya  
Selangor  
Malaysia  
Fax: +60-3 7957 8046

### Port Kinabalu

Mohd Sha Ebung, PMO  
Malaysian Meteorological Service  
7th Floor, Wisma Dang Bandang  
P.O. Box 54  
88995 Kota Kinabalu  
Sabah  
Malaysia  
Fax: +60-88 211 019

## MAURITIUS

Port Louis  
Meteorological Services  
St. Paul Road  
Vacoas  
Mauritius  
Tel: +230 686 1031/32  
Fax: +230 686 1033  
E-mail: [meteo@intnet.mu](mailto:meteo@intnet.mu)

## NETHERLANDS

Bert de Vries, PMO &  
René Rozeboom, PMO  
KNMI, PMO-Office  
Wilhelminalaan 10  
Postbus 201  
3730 Ae de Bilt  
Netherlands  
Tel: +31-30 2206391  
Fax: +31-30 2210849  
E-mail: [PMO-Office@knmi.nl](mailto:PMO-Office@knmi.nl)

## NEW ZEALAND

Julie Fletcher, MMO  
Meteorological Service New Zealand Ltd.  
P.O. Box 722  
Wellington  
New Zealand  
Tel: +64-4 4700 789  
Fax: +64-4 4700 772

## **NORWAY**

Tor Inge Mathiesen, PMO  
Norwegian Meteorological Institute  
Allégaten 70  
N-5007 Bergen  
Norway  
Tel: +47-55 236600  
Fax: +47-55 236703  
Telex: 40427/42239

## **PAKISTAN**

Hazrat Mir, Senior Meteorologist  
Pakistan Meteorological Department  
Meteorological Office  
Jinnah International Airport  
Karachi  
Pakistan  
Tel: +92-21 45791300, 45791322  
Fax: +92-21 9248282  
E-mail: [pmdmokar@khi.paknet.com.pk](mailto:pmdmokar@khi.paknet.com.pk)

## **PHILIPINES**

### **Cagayan de Oro City**

Leo Rodriguez  
Pagasa Complex Station  
Cagayan de Oro City 9000, Misamis  
Occidental  
Philippines  
Tel: +63-8822 722 760

### **Davao City**

Edwin Flores  
Pagasa Complex Station, Bangoy Airport  
Davao City 8000  
Philippines  
Tel: +63-82 234 08 90

### **Dumaguete City**

Edsin Culi  
Pagasa Complex Station  
Dumaguete City Airport  
Dumaguete City, Negros Oriental 6200  
Philippines  
Tel: +63-35 225 28 04

### **Legaspi City**

Orthello Estareja  
Pagasa Complex Station  
Legaspi City, 4500  
Philippines  
Tel: +63-5221 245 5241  
**Iloilo City**

Constancio Arpon, Jr.  
Pagasa Complex Station  
Iloilo City 5000  
Philippines  
Tel: +63-33 321 07 78

### **Mactan City**

Roberto Entrada  
Pagasa Complex Station, Mactan Airport  
Mactan City, CEBU 6016  
Philippines  
Tel: +63-32 495 48 44

### **Manila**

Dr. Juan D. Cordeta & Benjamin Tado, Jr.  
Pagasa Port Meteorological Office  
PPATC Building, Gate 4  
South Harbor  
Manila 1018  
Philippines 1100  
Tel: +63-22 527 03 16

## POLAND

Józef Kowalewski, PMO Gdynia and Gdansk  
Institute of Meteorology and Water Management  
Waszyngton 42  
PL-81-342 Gdynia  
Poland  
Tel: +48-58 6204572  
Fax: +48-58 6207101  
Telex: 054216  
E-mail: [kowalews@stratus.imgw.gdynia.pl](mailto:kowalews@stratus.imgw.gdynia.pl)

## REPUBLIC OF KOREA

### Inchon

Inchon Meteorological Station  
25 Chon-dong, Chung-gu  
Inchon  
Republic of Korea  
Tel: +82-32 7610365  
Fax: +82-32 7630365

### Pusan

Pusan Meteorological Station  
1-9 Taechong-dong, Chung-gu  
Pusan  
Republic of Korea  
Tel: +82-51 4697008  
Fax: +82-51 4697012

## RUSSIAN FEDERATION

Ravil S. Fakhрутdinov  
Roshydromet  
12, Novovagan'kovsky Street  
Moscow 123242  
Russian Federation  
Tel: +7-095 255 23 88  
Fax: +7-095 255 20 90  
Telex: 411117 RUMS RF  
E-mail: [marine@mcc.mecom.ru](mailto:marine@mcc.mecom.ru) [fakhrutdinov@rhmc.mecom.ru](mailto:fakhrutdinov@rhmc.mecom.ru)

## SAUDI ARABIA

Mahmoud M. Rajkhan, PMO  
Meteorology and Environmental Protection Administration (MEPA)  
P.O. Box 1358  
Jeddah 21431  
Saudi Arabia  
Tel: +966-2 6512312 Ext. 2252 or 2564

## SINGAPORE

Amran bin Osman, PMS  
Meteorological Service  
PO Box 8  
Singapore Changi Airport  
Singapore 9181  
Tel: 5457198  
Fax: +65 5457192  
Telex: RS50345 METSIN

## SOUTH AFRICA

### Headquarters

Johan Stander  
Regional Manager: Western Cape  
Antarctica and Islands  
South African Weather Service  
P O Box 21 Cape Town international  
Airport  
7525  
South Africa  
Tel: +27 (0) 21 934 0450  
Fax: +27 (0) 21 934 4590  
Cell: +27 (0) 82 281 0993  
Weatherline: 082 162  
E-mail: [johan.stander@weathersa.co.za](mailto:johan.stander@weathersa.co.za)  
[www.weathersa.co.za](http://www.weathersa.co.za)

### Cape Town

C. Sydney Marais, PMO  
Cape Town Regional Weather Office  
Cape Town International Airport  
Cape Town 7525  
South Africa  
Tel: +27-21 934 0836  
Fax: +27-21 934 3296  
E-mail: [maritime@weathersa.co.za](mailto:maritime@weathersa.co.za)

### Durban

Gus McKay, PMO  
Durban Regional Weather Office  
Durban International Airport  
Durban 4029  
South Africa  
Tel: +27-31 408 1446  
Fax: +27-31 408 1445  
E-mail: [mckay@weathersa.co.za](mailto:mckay@weathersa.co.za)

## SWEDEN

Kerstin Svensson  
SMHI  
Universitetsallén 32  
SE-851 71 SUNDSVALL  
Tel +46 60 785 88 30

## TANZANIA, UNITED REPUBLIC OF

H. Charles Mwakitosi, PMO  
P.O. Box 3056  
Dar es Salaam  
United Republic of Tanzania

## THAILAND

Kesrin Hanprasert, Meteorologist  
Marine and Upper Air Observation Section  
Meteorological Observation Division  
Thai Meteorological Department  
4353 Sukhumvit Road, Bangna  
Bangkok 10260  
Thailand  
Tel: +66-2 399 4561  
Fax: +66-2 398 9838  
E-mail: [Wattana@fc.nrct.go.th](mailto:Wattana@fc.nrct.go.th)

# UNITED KINGDOM

## Headquarters

Sarah C. North, Marine Networks Manager  
Met Office  
Observations Supply - Marine Networks  
FitzRoy Road  
Exeter  
Devon  
EX1 3PB  
United Kingdom  
Tel: +44-1392 855 617  
Fax: +44-870 900 5050  
E-mail: [sarah.north@metoffice.gov.uk](mailto:sarah.north@metoffice.gov.uk)  
Group E-mail: [Obsmar@metoffice.gov.uk](mailto:Obsmar@metoffice.gov.uk)

## North England

Vacant  
Met office  
c/o 12 Brackley Close  
Wallasey  
Merseyside CH44 3EJ  
United Kingdom  
Tel: +44-151 638 8516  
Fax: +44-870 900 5050  
E-mail: [pmoliverpool@metoffice.gov.uk](mailto:pmoliverpool@metoffice.gov.uk)

## South England

Joe Maguire, PMO  
Met Office  
Trident House  
21 Berth, Tilbury Dock  
Tilbury, Essex RM18 7HL  
United Kingdom  
Tel: +44-1375 859 970  
Fax: +44-870 900 5050  
e-mail: [pmolondon@metoffice.gov.uk](mailto:pmolondon@metoffice.gov.uk)

## Scotland

Tony Eastham, PMO  
Met Office  
Saughton House, Broomhouse Drive  
Edinburgh EH11 3XQ  
United Kingdom  
Tel: +44-131 528 7305  
Fax: +44-131 528 7345  
E-mail: [pmoedinburgh@metoffice.gov.uk](mailto:pmoedinburgh@metoffice.gov.uk)

## Ian J. Hendry, Offshore Adviser

Met Office  
Davidson House Campus 1  
Aberdeen Science & Technology Park  
Bridge of Don  
Aberdeen AB22 8GT  
United Kingdom  
Tel: +44-1224 407 557  
Fax: +44-1224 407 568  
E-mail: [ihendry@metoffice.gov.uk](mailto:ihendry@metoffice.gov.uk)

## PMO Southampton

Lalinda Namalarachchi, PMO  
Met Office  
c/o Room 231/19  
National Oceanography Centre,  
Southampton  
University of Southampton,  
Waterfront Campus  
European Way  
Southampton SO14 3ZH  
United Kingdom  
Telephone: +44 -2380638339  
Telefax: +44-870 900 5050  
E-mail: [pmosouthampton@metoffice.gov](mailto:pmosouthampton@metoffice.gov)



# 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.

