

WORLDWIDE MARINE RADIOFACSIMILE BROADCAST SCHEDULES

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

NATIONAL WEATHER SERVICE

August 8, 2024

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.

This publication is made available via the Internet at:

<https://weather.gov/marine/media/rfax.pdf>

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

<https://weather.gov/marine>

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** <https://weather.gov/disclaimer>.

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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*** <https://weather.gov/disclaimer>.

The accuracy of this publication depends on YOUR input.

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

National Weather Service W/AFS26
1325 East-West Highway
Silver Spring, MD 20910 USA
1-301-427-9390
1-301-713-1520 (fax)
marine.weather@noaa.gov

ASIA

TOKYO, JAPAN

CALL SIGNS	FREQUENCIES	TIMES	EMISSION	POWER
JMH	3622.5 kHz	ALL BROADCAST TIMES	J3C	5 kW
JMH2	7795 kHz	ALL BROADCAST TIMES	J3C	5 kW
JMH4	13988.5 kHz	ALL BROADCAST TIMES	J3C	5 kW

TIME	CONTENTS OF TRANSMISSION	RPM/IOC	VALID TIME	MAP AREA
0000/1200	RETRANSMISSION OF 2200/0750 (1)	120/576	12/06	
0020/-----	96HR SURFACE PRESSURE, PRECIP PROGS	120/576	1200	C
0040/-----	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	
-----/1251	24HR 850hPa TEMPERATURE WIND AND 700hPa VERTICAL P-VELOCITY PROG			
-----/1251	36 HR 500hPa TEMPERATURE AND 700hPa DEWPOINT DEPRESSION PROG	120/576	0000	
-----/1251	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	00/00	
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	00/12	
0340/-----	BROADCAST SCHEDULE and MANUAL AMENDMENTS	120/576		
0400/1540	TROPICAL CYCLONE FORECAST (6)	120/576	00/12	
-----/1600	SEA SURFACE WATER TEMPERATURE (2)	120/576		
0421/1620	OCEAN WAVE ANALYSIS	120/576	00/12	C''
0440/-----	COASTAL WAVE ANALYSIS	120/576	0000	X
0459/1640	500 hPa HEIGHT, TEMPERATURE	120/576	00/12	C
0518/1700	850 hPa HEIGHT, TEMPERATURE, DEW POINT DEPRESSION	120/576	00/12	C
-----/1719	COASTAL WAVE ANALYSIS	120/576	1200	X
0537/1739	24HR 500 hPa HEIGHT, VORTICITY PROGNOSIS	120/576	00/12	
0548/-----	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	00/12	
0630/-----	48/72 HR SURFACE PRESSURE, PRECIPITATION PROGNOSIS	120/576	00/00	
-----/1810	36HR 500 hPa HEIGHT, VORTICITY PROGNOSIS	120/576	1200	
-----/1810	36HR SURFACE PRESSURE, PRECIPITATION PROGNOSIS			
-----/1821	24 HR 500 hPa TEMPERATURE AND 700 hPa DEWPOINT DEPRESSION PROG	120/576	1200	
-----/1821	24HR 850 hPa TEMPERATURE WIND AND 700 hPa VERTICAL P-VELOCITY PROG			
-----/1832	36 HR 500 hPa TEMPERATURE AND 700 hPa DEWPOINT DEPRESSION PROG	120/576	1200	
-----/1832	36HR 850 hPa TEMPERATURE WIND AND 700 hPa 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 500 hPa HEIGHT, VORTICITY PROGNOSIS	120/576	0000	
0809/-----	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	0600	
0920/2120	THE FIRST RETRANSMISSION OF 0840/2040	120/576	06/18	
0940/-----	RETRANSMISSION OF 0630/1950	120/576	00/18	
-----/2140	TROPICAL CYCLONE FORECAST (6)	120/576	1800	C'
1000/-----	RETRANSMISSION OF 0820	120/576	0000	

TOKYO, JAPAN

TIME	CONTENTS OF TRANSMISSION	RPM/IOC	VALID	MAP
-----/2200	48/72HR SURFACE PRESSURE, PRECIPITATION PROGNOSIS	120/5/6	1200	
1019/-----	SEA ICE CONDITION ANAL(4), 48HR & 168 HR PROGS(5)	120/576	0000	L/L'
-----/2220	24HR OCEAN WAVE PROG	120/576	1200	
1040/2240	RETRANSMISSION OF 0548/1950	120/576	00/18	
1100/2300	RETRANSMISSION OF 0421/1930	120/576	00/12	
1119/2320	RETRANSMISSION OF 0440/1719	120/576	00/12	
1140/2340	RETRANSMISSION OF 0651/2100	120/576	00/12	

- 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

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 122 Jan 2014) <http://www.jma-net.go.jp/common/177jmh/JMH-ENG.pdf>

PEVEK, CHUKOTKA PENINSULA

CALL SIGNS	FREQUENCIES	TIMES	EMISSION	POWER
	148 kHz	ALL BROADCAST TIMES	J3C	
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)

SEOUL, REPUBLIC OF KOREA

CALL SIGN	FREQUENCIES	TIMES	EMISSION	POWER
HLL2	3585 KHz	1200-0000 UTC	J3C	3 kW
HLL2	5857.5 KHz	ALL BROADCAST TIMES	J3C	3 kW
HLL2	7433.5 KHz	ALL BROADCAST TIMES	J3C	3 kW
HLL2	9165 KHz	ALL BROADCAST TIMES	J3C	3 kW
HLL2	13570 KHz	0000-1200 UTC	J3C	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	500 hPa UPPER AIR WEATHER CHART	120/576		A
0513/1713	650 hPa UPPER AIR WEATHER CHART	120/576		A
0526/1726	700 hPa UPPER AIR WEATHER CHART	120/576		A
0539/1739	300 hPa 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

CALL SIGNS	FREQUENCIES	TIMES	EMISSION	POWER
HSW64	7395.0 kHz *		J3C	3 kW

TIME	CONTENTS OF TRANSMISSION	RPM/IOC	VALID TIME	MAP AREA
0050/-----	TEST CHAR I	120/5/6		
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	120/5/6		
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	120/5/6	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	J3C	5 kW
JJC	8467.5 KHZ	ALL BROADCAST TIMES	J3C	10 kW
JJC	12745.5 KHZ	ALL BROADCAST TIMES	J3C	15 kW
JJC	16971 KHZ	ALL BROADCAST TIMES	J3C	15 kW
JJC	17069.6 KHZ	ALL BROADCAST TIMES	J3C	15 kW
JJC	22542 KHZ	ALL BROADCAST TIMES	J3C	15 kW
9VF/252	16035 KHZ	0740-1010, 1415-1815	J3C	10 kW
9VF/252	17430 KHZ	0740-1010, 1415-1815	J3C	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		
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	SAI&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		
2215	WX Chart	60/576	2100	
2215	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)

GUANGZHOU COAST RADIO STATION, CHINA

Guangdong Meteorological Observatory, South China Sea Weather Forecast Center

CALL SIGNS	FREQUENCIES	TIMES	EMISSION	POWER
XSQ	4199.75 kHz	ALL BROADCAST TIMES	F3C	5 kW
XSQ	8412.5 kHz	ALL BROADCAST TIMES	F3C	5 kW
XSQ	12629.25 kHz	ALL BROADCAST TIMES	F3C	5 kW
XSQ	16826.25 kHz	ALL BROADCAST TIMES	F3C	5 kW

Schedule Effective 23ST 2022 August

TIME (UTC (LT))	OBS (UTC (LT))	HEADING	CONTENT OF CHART	传真图内容	NOTES
0000 (0800)		MANAM	XSQ BROADCAST SCHEDULE AND MANUAL AMENDMENTS	广播时间表和 手册修订时间	
0025 (0825)	00 (08)	FSAS024	24H SURFACE FORECAST	海平面、降水 、风力预报 (24h)	
0050 (0850)	00 (08)	FSAS048	48H SURFACE FORECAST	海平面、降水 、风力预报 (48h)	
0115 (0915)	00 (08)	FSAS072	72H SURFACE FORECAST	海平面、降水 、风力预报 (72h)	
0140 (0940)	22 (06)	FSSS024	24H SOUTH CHINA SEA FORECAST	南海海区预报 (24h)	(1)
0215 (1015)	00 (08)	FTPW120	120H TROPICAL CYCLONE FORECAST	台风预报 (120h)	
0240 (1040)	22 (06)	FSSS048	48H SOUTH CHINA SEA FORECAST	南海海区预报 (48h)	
0305 (1105)	22 (06)	FSSS072	72H SOUTH CHINA SEA FORECAST	南海海区预报 (72h)	
0330 (1130)	00 (08)	FWEA024	24H WAVE HEIGHT,SURFACE WIND FORECAST	海浪预报 (24h)	
0400 (1200)	00 (08)	ASPN	SURFACE ANALYSIS	地面实况分析	
0425 (1225)	00 (08)	FWEA048	48H WAVE HEIGHT,SURFACE WIND FORECAST	海浪预报 (48h)	
0450 (1250)	00 (08)	FWEA072	72H WAVE HEIGHT,SURFACE WIND FORECAST	海浪预报 (72h)	(2)
0515 (1315)			REISSUE CHART	补发传真图	(1)
0815 (1615)	06 (14)	FTPW120	120H TROPICAL CYCLONE FORECAST	台风预报 (120h)	

1225 (2025)	12 (20)	FSAS024	24H SURFACE FORECAST	海平面、降水、风力预报 (24h)	
1250 (2050)	12 (20)	FSAS048	48H SURFACE FORECAST	海平面、降水、风力预报 (48h)	
1315 (2115)	12 (20)	FSAS072	72H SURFACE FORECAST	海平面、降水、风力预报 (72h)	
1340 (2140)	08 (16)	FSSS024	24H SOUTH CHINA SEA FORECAST	南海海区预报 (24h)	(1)
1415 (2215)	12 (20)	FTPW120	120H TROPICAL CYCLONE FORECAST	台风预报 (120h)	
1440 (2240)	08 (16)	FSSS048	48H SOUTH CHINA SEA FORECAST	南海海区预报 (48h)	
1505 (2305)	08 (16)	FSSS072	72H SOUTH CHINA SEA FORECAST	南海海区预报 (72h)	
1600 (0000)	12 (20)	FWEA024	24H WAVE HEIGHT,SURFACE WIND FORECAST	海浪预报 (24h)	
1625 (0025)	12 (20)	FWEA048	48H WAVE HEIGHT,SURFACE WIND FORECAST	海浪预报 (48h)	
1650 (0050)	12 (20)	FWEA072	72H WAVE HEIGHT,SURFACE WIND FORECAST	海浪预报 (72h)	(1)
2015 (0415)	18 (02)	FTPW120	120H TROPICAL CYCLONE FORECAST	台风预报 (120h)	

NOTES : (1) IN CASE OF TROPICAL CYCLONE

(2) IN CASE CHARTS NOT BROADCAST IN TIME

SOUTH
AMERICA

VALPARAISO PLAYA ANCHA, CHILE (CBV) PUNTA ARENAS MAGALLANÉS, CHILE (CBM)

CALL SIGNS	FREQUENCIES	TIMES	EMISSION	POWER
CBV	4228.0 kHz	ALL BROADCAST TIMES	J3C	1 kW
CBV	8677.0 kHz	ALL BROADCAST TIMES	J3C	1 kW
CBV	17146.4 kHz	ALL BROADCAST TIMES	J3C	1 kW
CBM	4322.0 kHz	ALL BROADCAST TIMES	J3C	1 kW
CBM	8696.0 kHz	ALL BROADCAST TIMES	J3C	1 kW

TIME	CONTENTS OF TRANSMISSION (CBV)	RPM/IOC	VALID TIME	MAP AREA
1100	TEST CHART CBV CBM SCHEDULES	120/576		
1115	SURFACE CHART	120/576	0600	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	SURFACE CHART	120/576	1200	A
1930	SATELLITE IMAGE	120/576	1800	A
2200	36 HR SURFACE FORECAST	120/576	0000	A
2215	SURFACE CHART	120/576	1800	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	SURFACE CHART	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	SURFACE CHART	120/576	1800	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

The Antarctic Ice Limit Charts have been replaced with more surface charts and forecasts and have been removed from the radiofacsimile broadcasting to the web page at: <http://web.directemar.cl/met/jturno/indice/english.htm> (see point 4) including satellite pictures, iceberg report and automated station.

(INFORMATION DATED Sep 23, 2010)

http://meteoarmada.directemar.cl/prontus_meteo/site/artic/20100817/pags/20100817162223.html

NORTH
AMERICA

IQALUIT, CANADA

(INFORMATION DATED August 2024) Services Discontinued in 2019. Please refer to the CCG publication: **Radio Aids to Marine Navigation 2024** (<https://www.ccg-gcc.gc.ca/publications/mcts-sctm/ramn-arnm/index-eng.html>) for more information.

RESOLUTE, CANADA

(INFORMATION DATED August 2024) Services Discontinued in 2019. Please refer to the CCG publication: **Radio Aids to Marine Navigation 2024** (<https://www.ccg-gcc.gc.ca/publications/mcts-sctm/ramn-arnm/index-eng.html>) for more information.

INUVIK, CANADA

(INFORMATION DATED August 2024) Services Discontinued in 2019. Please refer to the CCG publication: **Radio Aids to Marine Navigation 2024** (<https://www.ccg-gcc.gc.ca/publications/mcts-sctm/ramn-arnm/index-eng.html>) for more information.

SYDNEY - NOVA SCOTIA, CANADA

CALL SIGN	FREQUENCIES	TIMES	EMISSION	POWER
VCO	4416 KHz	2200-2331	J3C	
VCO	6915.1 KHz	1121-1741	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 2014) <http://www.ccg-gcc.gc.ca/folios/01133/docs/RAMN-2014-ATLANTIC-eng.pdf>

KODIAK, ALASKA, U.S.A.

CALL SIGN	FREQUENCIES	TIMES	EMISSION	POWER
NOJ	2054 KHz	ALL BROADCAST TIMES	J3C	4 kW
	4298 KHz	ALL BROADCAST TIMES	J3C	4 kW
	8459 KHz	ALL BROADCAST TIMES	J3C	4 kW
	12412.5 KHz	ALL BROADCAST TIMES	J3C	4 kW

TRANS TIME (UTC)	CONTENTS OF TRANSMISSION	RPM/IOC	VALID TIME	MAP AREA
0340/1540	TEST PATTERN	120/576		
0343/1543	SEA ICE ANALYSIS/REBROADCAST 1057	120/576	LATEST	6
0403/1603	SURFACE ANALYSIS	120/576	00/12	2
0427/1627	REBROADCAST 24HR SURFACE F'CAST 2203/1017	120/576	12/00	3
0437/1637	REBROADCAST 48HR SURFACE F'CAST 2227/1037	120/576	12/00	1
0447/1647	REBROADCAST 96HR SURFACE F'CAST 2348	120/576	12/12	1
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
----/1808	48HR 500 MB FORECAST	120/576	1200	
0950/2150	TEST PATTERN	120/576		
0953/2153	SURFACE ANALYSIS	120/576	06/18	2
1017/2203	24HR SURFACE FORECAST	120/576	00/12	3
1027/2217	24HR WIND/WAVE FORECAST	120/576	00/12	3
1037/2227	48HR SURFACE FORECAST	120/576	00/12	1
1047/2237	48HR WIND/WAVE FORECAST	120/576	00/12	1
----/2247	48HR WAVE PERIOD, SWELL DIRECTION	120/576	1200	1
1057/2257	5-DAY SEA ICE FORECAST/REBROADCAST 0343	120/576	LATEST	6
1117/2307	GOES IR SATELLITE IMAGE	120/576	06/18	5
1128/----	48HR WAVE PERIOD, SWELL DIRECTION	120/576	0000	1
1138/----	48HR 500 MB FORECAST	120/576	0000	1
1148/----	SEA SURFACE TEMPERATURE ANALYSIS	120/576	LATEST	4
1159/----	COOK INLET SEA ICE FORECAST	120/576	LATEST	7
----/2317	72HR SURFACE FORECAST	120/576	1200	1
----/2328	72HR WIND/WAVE FORECAST	120/576	1200	1
----/2338	72HR WAVE PERIOD, SWELL DIRECTION	120/576	1200	1
----/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

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

2. Schedule effective September 19, 2018, includes new 72 hour products

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

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 USCG COMMCOM
 4720 Douglas A. Munro Road
 Chesapeake, VA 23322-2598
 800-742-8519 /FAX: 757-421-6240
COM-SMB-WATCH@uscg.mil

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.

Links to radiofax charts <https://weather.gov/marine/alaska>
Information on ftpmail <https://weather.gov/marine/faq#3>

<https://www.weather.gov>
<https://weather.gov/marine>
<mobile.weather.gov>

NWS Homepage
NWS Marine Page
Mobile Page

(SCHEDULE EFFECTIVE SEP 19 2018)

(INFORMATION DATED Feb. 12, 2020) <https://weather.gov/media/marine/hfak.txt>

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

CALL SIGN	FREQUENCIES	TIMES (UTC)	EMISSION	POWER
NMC	4346 KHz	0140-1608	J3C	4 kW
	8682 KHz	ALL BROADCAST TIMES	J3C	4 kW
	12786 KHz	ALL BROADCAST TIMES	J3C	4 kW
	17151.2 KHz	ALL BROADCAST TIMES	J3C	4 kW
	22527 KHz	1840-2356	J3C	4 kW

TRANS 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
0655/1820	TEST PATTERN			
0657/----	1953Z REBROADCAST (96HR 500MB)	120/576	1200	1
0707/----	1933Z REBROADCAST (96HR SURFACE)	120/576	1200	1
0717/----	1943Z REBROADCAST (96HR WIND/WAVE)	120/576	1200	1
0727/----	2003Z REBROADCAST (96HR WAVE PERIOD)	120/576	1200	1
----/1822	24HR SURFACE FORECAST	120/576	1200	8
----/1832	24HR WIND/WAVE FORECAST	120/576	1200	8
----/1842	24HR 500MB FORECAST	120/576	1200	1
----/1852	SST ANALYSIS	120/576	LATEST	9
----/1902	SST ANALYSIS	120/576	LATEST	6
0737/1913	TROPICAL GOES IR SATELLITE IMAGE	120/576	06/18	7
0748/1923	WIND/WAVE ANALYSIS	120/576	06/18	8
0758/----	24HR SURFACE FORECAST	120/576	0000	8
0808/----	24HR WIND/WAVE FORECAST	120/576	0000	8
0818/----	24HR 500MB FORECAST	120/576	0000	1
----/1933	96HR SURFACE FORECAST	120/576	1200	1
----/1943	96HR WIND/WAVE FORECAST	120/576	1200	1
----/1953	96HR 500MB FORECAST	120/576	1200	1
----/2003	96HR WAVE PERIOD/SWELL DIRECTION	120/576	1200	1
0828/2013	48HR SURFACE FORECAST	120/576	00/12	1
0838/2023	48HR WIND/WAVE FORECAST	120/576	00/12	1
0848/2033	48HR 500MB FORECAST	120/576	00/12	1
0858/2043	48HR WAVE PERIOD/SWELL DIRECTION	120/576	00/12	1
----/2053	72HR SURFACE FORECAST	120/576	1200	1
----/2103	72HR WIND/WAVE FORECAST	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

- 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 - 42N, EAST OF 150W |
| 7. 05N - 32N, EAST OF 125W | 8. 18N - 62N, EAST OF 157W |
| 9. 40N - 53N, EAST OF 136W | 10. 0N - 40N, 80W - 180W |

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

2. Schedule effective September 19, 2018, includes new 72 hour products

Please send comments regarding the quality of these charts to:

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COLLEGE PARK, MD 20740
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FAX: (301) 683-1545
EMAIL: ncep.opc.webteam@noaa.gov

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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.

Links to radiofax charts <https://weather.gov/marine/ptreyes>
Information on ftpmail <https://weather.gov/marine/faq#3>

<https://www.weather.gov>
<https://weather.gov/marine>
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NWS Homepage
NWS Marine Page
Mobile Page

(SCHEDULE EFFECTIVE SEP 19, 2018)
(INFORMATION DATED Feb. 12, 2020)

<https://weather.gov/media/marine/hfreyes.txt>

NEW ORLEANS, LOUISIANA, U.S.A

CALL SIGN	FREQUENCIES	TIMES (UTC)	EMISSION	POWER
NMG	4317.9 kHz	ALL BROADCAST TIMES	J3C	4 kW
	8503.9 kHz	ALL BROADCAST TIMES	J3C	4 kW
	12789.9 kHz	ALL BROADCAST TIMES	J3C	4 kW
	17146.4 kHz	1200-2045	J3C	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:

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 EMAIL: Chris.Landsea@noaa.gov

COMMANDING OFFICER
 USCG COMMCOM
 4720 DOUGLAS A. MUNRO RD.
 CHESAPEAKE, VA 23322-2598
 (800) 742-8519/Fax: (757) 421-6240
COM-SMB-WATCH@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.

Links to radiofax charts <https://weather.gov/marine/gulf>
Information on ftpmail <https://weather.gov/marine/faq#3>

<https://www.weather.gov>
<https://weather.gov/marine>
<mobile.weather.gov>

NWS Homepage
NWS Marine Page
Mobile Page

(Schedule Effective Apr 03, 2012)

(Information dated Feb. 12, 2020) <https://weather.gov/media/marine/hfgulf.txt>

BOSTON, MASSACHUSETTS, U.S.A.

CALL SIGN	FREQUENCIES	TIMES	EMISSION	POWER
NMF	4235 kHz	0230Z-1039Z	J3C	4 kW
	6340.5 kHz	ALL BROADCAST TIMES	J3C	4 kW
	9110 kHz	ALL BROADCAST TIMES	J3C	4 kW
	12750 kHz	1400Z-2239Z	J3C	4 kW

TRANS TIME	CONTENTS OF TRANSMISSION	RPM/IOC	VALID MAP	TIME 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	2100	
----/1720	TEST PATTERN	120/576		
0402/1723	(REBROADCAST OF 0325/1525 NE ATLANTIC)	120/576	00/12	2
0415/1736	(REBROADCAST OF 0338/1538 NW ATLANTIC)	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	24HR SURFACE FORECAST	120/576	1200	8
0452/1824	CYCLONE DANGER AREA* or HIGH WIND/WAVES	120/576	03/15	7
----/1835	24HR WIND/WAVE FORECAST	120/576	1200	8
----/1855	24HR 500MB FORECAST	120/576	1200	4
0745/----	TEST PATTERN	120/576		
0755/----	PRELIMINARY SURFACE ANALYSIS	120/576	0600	1
0805/----	24HR SURFACE FORECAST	120/576	0000	8
0815/----	24HR WIND/WAVE FORECAST	120/576	0000	8
0825/----	24HR 500MB FORECAST	120/576	0000	4
0835/1905	36HR 500MB FORECAST	120/576	00/12	4
----/1915	96HR SURFACE FORECAST	120/576	1200	4
----/1925	96HR WIND/WAVE FORECAST	120/576	1200	4
----/1935	96HR 500MB FORECAST	120/576	1200	4
----/1945	96HR WAVE PERIOD FORECAST	120/576	1200	4
0845/1955	48HR SURFACE FORECAST	120/576	00/12	4
0855/2005	48HR WIND/WAVE FORECAST	120/576	00/12	4
0905/2015	48HR 500MB FORECAST	120/576	00/12	4
0915/2025	48HR WAVE PERIOD FORECAST	120/576	00/12	4
----/2035	PRELIMINARY SURFACE ANALYSIS	120/576	1800	1
----/2045	72HR SURFACE FORECAST	120/576	1200	4
----/2055	72HR WIND/WAVE FORECAST	120/576	1200	4
----/2105	72HR 500MB FORECAST	120/576	1200	4
----/2115	72HR WAVE PERIOD FORECAST	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 NE ATLANTIC)	120/576	06/18	2
1015/2215	(REBROADCAST OF 0938/2138 NW ATLANTIC)	120/576	06/18	3
1028/2228	CYCLONE DANGER AREA* or 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

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

2. Schedule effective September 19, 2018, includes new 72 hour products

Please send comments regarding
the quality of these charts to:

Please send comments regarding
the quality of this broadcast to:

NATIONAL WEATHER SERVICE/NOAA
MARINE FORECAST BRANCH W/NP41
5830 UNIVERSITY RESEARCH CT
COLLEGE PARK, MD 20740
PHONE: (301) 683-1497
FAX: (301) 683-1545
EMAIL: ncep.opc.webteam@noaa.gov

COMMANDING OFFICER
USCG COMMCOM
4720 DOUGLAS A. MUNRO RD.
CHESAPEAKE, VA 23322-2598
(800) 742-8519/Fax: (757) 421-6240
COM-SMB-WATCH@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.

Links to radiofax charts <https://weather.gov/marine/marsh>
Information on ftpmail <https://weather.gov/marine/faq#3>

<https://www.weather.gov>
<https://weather.gov/marine>
mobile.weather.gov

NWS Homepage
NWS Marine Page
Mobile Page

(EFFECTIVE DATE: SEP 19, 2018)
(INFORMATION DATED: Feb. 12, 2020) <https://weather.gov/media/marine/hfmarsh.txt>

PACIFIC
OCEAN
BASIN

CHARLEVILLE, AUSTRALIA

CALL SIGNS	FREQUENCIES	TIMES	EMISSION	POWER
VMC	2628 KHZ	0900-1900	J3C	1 kW
VMC	5100 KHZ	All Broadcast Times	J3C	1 kW
VMC	11030 KHZ	All Broadcast Times	J3C	1 kW
VMC	13920 KHZ	All Broadcast Times	J3C	1 kW
VMC	20469 KHZ	1900-0900	J3C	1 kW

WILUNA, AUSTRALIA

CALL SIGN	FREQUENCIES	TIMES	EMISSION	POWER
VMW	5755 KHZ	1100-2100	J3C	1 kW
VMW	7535 KHZ	All Broadcast Times	J3C	1 kW
VMW	10555 KHZ	All Broadcast Times	J3C	1 kW
VMW	15615 KHZ	All Broadcast Times	J3C	1 kW
VMW	18060 KHZ	2100-1100	J3C	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) and VMC (Charleville)	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
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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:		30N - 35S, 120E - 180
	AUST:	LAMBERT	10S - 50S, 090E - 170E
	B:		30N - 35S, 070E - 130E
	C:		30N - 35S, 070E - 180
	E:		40N - 40S, 70E - 180
	IO	POLAR	10S - 90S, 0 - 090E - 180
	CASEY	MERCATOR	50S - 70S, 080E - 160E
	SH	POLAR	20S - 90S, all longitudes
	PSST	MERCATOR	20N - 50S, 140E - 180 - 100W
	SWP	POLAR	20S - 90S, 150E - 180 - 90W
	IOSST	MERCATOR	20N - 50S, 30E - 150E

(INFORMATION DATED Apr 20, 2022) <http://www.bom.gov.au/marine/radio-sat/radio-fax-schedule.shtml>

WELLINGTON, NEW ZEALAND

Station ZKLF stopped broadcasting radiofax charts on 1 July 2023.

(INFORMATION DATED JULY 2023 - <https://about.metservice.com/our-company/national-weather-services/retirement-of-radiofax>)

HONOLULU, HAWAII, U.S.A.

CALL SIGN	FREQUENCIES	TIMES (UTC)	EMISSION	POWER
KVM70	9982.5 kHz	0519-1556	J3C	4 kW
	11090 kHz	ALL BROADCAST TIMES	J3C	4 kW
	16135 kHz	1719-0356	J3C	4 kW

TIME	CONTENTS OF TRANSMISSION	RPM/IOC	VALID TIME	MAP AREA
0519/1719	TEST PATTERN	120/576		
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 |
| C. EQ - 50N, 110W - 130E | D. 30S - 50N, 110W - 160E |
| E. EQ - 40N, 80W - 170E | F. EQ - 55N, 110W - 160E |
| G. 05S - 55N, 110W - 155E | H. 40S - 05N, 130W - 165E |
| 1. 20N - 70N, 115W - 135E | 2. 20N - 70N, 115W - 175W |
| 3. 20N - 70N, 175W - 135E | 4. 18N - 62N, EAST OF 157W |
| 5. 05N - 55N, EAST OF 180W | |
| Y. 05N - 32N, EAST OF 130W | Z. 20S - 30N, EAST OF 145W |

- Honolulu Forecast Office
- Honolulu Forecast Office
- Honolulu Forecast Office
- Honolulu Forecast Office
- Ocean Prediction Center
- Ocean Prediction Center
- Ocean Prediction Center
- 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.

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 W-HFO.operations@noaa.gov
Or marine.weather@noaa.gov

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.

Links to radiofax charts <https://weather.gov/marine/hawaii>
Information on ftpmail <https://weather.gov/marine/faq#3>

<https://www.weather.gov>
<https://weather.gov/marine>
mobile.weather.gov

NWS Homepage
NWS Marine Page
Mobile Page

(SCHEDULE EFFECTIVE Feb. 11, 2020)
(INFORMATION DATED Feb. 12, 2020) <https://www.weather.gov/media/marine/hfhi.txt>

EUROPE

ATHENS, GREECE

CALL SIGN	FREQUENCY	TIMES	EMISSION	POWER
SVJ4	*4481 kHz		J3C	8 kW
SVJ4	*8105 kHz		J3C	8 kW
TIME	CONTENTS OF TRANSMISSION	RPM/IOC	VALID TIME	MAP AREA
0845	SURFACE ANALYSIS	120/576	0600	A
0857	SURFACE PROG (H+42)	120/576	0600	A
0909	SURFACE PROG (H+66)	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

*Center Frequency is 1.9 khz higher

(INFORMATION DATED (01/2019))

MURMANSK, RUSSIA

CALL SIGN	FREQUENCIES	TIMES	EMISSION	POWER
RBW 41	5336 kHz	ALL BROADCAST TIMES 1900-0600	J3C	
	6445.5 kHz		J3C	
	7908.8 kHz		J3C	
RBW48	10130 kHz	0600-1900	J3C	
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

Facsimile Transmission for shipping

Deutscher Wetterdienst
Offenbach (Main) - Hamburg / Pinneberg (DDH, DDK)

Frequencies	Call sign	Power	Class of emission	Signal
3855 kHz	DDH3	10,0 kW	F1C	white + 425 Hz, black - 425 Hz
7880 kHz	DDK3	10,0 kW	F1C	
13882,5 kHz	DDK6	10,0 kW	F1C	
Time UTC	UpM/Modul	DD-time	Ref. time UTC	Contents
04.30	120 / 576	19	00.00	Surface Analysis North Atlantic, Europe
05.12	120 / 576	11	00.00	36HR-forecast surface pressure
05.25	120 / 576	19	00.00	surface pressure analysis, arrows showing the movement of pressure systems, significant weather, ice
		05.55-06.35 Voice-transmission on 5905 kHz and 6180 kHz		
06.38	120 / 576	11	03.00	Information of tropical storms, North Atlantic (during season only)
06.51	120 / 576	11	00.00	12HR, 24HR 500 hPa H+T, surface pressure
07.04	120 / 576	11	00.00	12HR, 24HR 850 hPa H+T, 700 hPa relative humidity
07.17	120 / 576	11	00.00	Repetition chart 05.12 UTC
07.30	120 / 576	11	00.00	48HR-forecast surface pressure
07.43	120 / 576	11	00.00	60HR-forecast surface pressure
08.04	120 / 576	11	00.00	84HR-forecast surface pressure
08.17	120 / 576	11	00.00	108HR-forecast surface pressure
08.30	120 / 576	11	00.00	24HR-forecast significant height of combined wind waves and swell, wind 10m
08.42	120 / 576	11	00.00	48HR-forecast significant height of combined wind waves and swell, wind 10m
08.54	120 / 576	11	00.00	72HR-forecast significant height of combined wind waves and swell, wind 10m
09.06	120 / 576	11	00.00	96HR-forecast significant height of combined wind waves and swell, wind 10m
09.30	120 / 576	11	00.00	36HR, 48HR 500 hPa H+T, surface pressure
09.45	120 / 576	20	00.00	Sea surface temperature North Sea
10.07	120 / 576	20	00.00	Ice conditions chart Western Baltic Sea or special area if ice situation requires
10.29	120 / 576	19	00.00	48HR wave prediction North Atlantic
10.50	120 / 576	19	06.00	Surface Analysis North Atlantic, Europe
11.11	120 / 576	11	00.00	36HR, 48HR 850 hPa H+T, 700 hPa relative humidity
11.23	120 / 576	11	00.00	60HR, 72HR 500 hPa H+T, surface pressure
11.35	120 / 576	11	00.00	60HR, 72HR 850 hPa H+T, 700 hPa relative humidity
		11.55-12.35 Voice-transmission on 5905 kHz and 6180 kHz		
12.36	120 / 576	19	06.00	Repetition chart 10.50 UTC
12.56	120 / 576	11	00.00	Repetition chart 05.12 UTC
13.08	120 / 576	11	00.00	Repetition chart 07.30 UTC
13.20	120 / 576	11	00.00	Repetition chart 07.43 UTC
13.32	120 / 576	11	00.00	Repetition chart 08.04 UTC
13.44	120 / 576	11	00.00	Repetition chart 08.17 UTC
13.56	120 / 576	19	06.00	Repetition chart 10.50 UTC
14.25	120 / 576	19	00.00	Transmission schedule part 1
14.45	120 / 576	19	00.00	Transmission schedule part 2
15.08	120 / 576	11	00.00	Ice conditions chart Northwest Atlantic, Canadian Ice serv., or int. Ice Patrol
15.20	120 / 576	19	09.00	Ice conditions chart Baltic Sea or special area
15.40	120 / 576	19	09.00	Ice conditions chart European Arctic Sea or special area
		15.55-16.35 Voice-transmission on 5905 kHz and 6180 kHz		
16.36	120 / 576	19	12.00	Surface Analysis North Atlantic, Europe
18.00	120 / 576	19	12.00	surface pressure analysis, arrows showing the movement of pressure systems, significant weather, ice
18.21	120 / 576	11	15.00	Information of tropical storms, North Atlantic (during season only)
18.34	120 / 576	11	12.00	36HR-forecast surface pressure
18.47	120 / 576	11	12.00	48HR-forecast surface pressure
19.00	120 / 576	11	00.00	84HR-forecast surface pressure
19.13	120 / 576	11	12.00	24HR-forecast significant height of combined wind waves and swell, wind 10m

19.26	120 / 576	11	12.00	48HR-forecast significant height of combined wind waves and swell, wind 10m
19.39	120 / 576	11	12.00	72HR-forecast significant height of combined wind waves and swell, wind 10m
		19.55-20.35 Voice-transmission on 5905 kHz and 6180 kHz		
21.00	120 / 576	11	12.00	Ice conditions chart Northwest Atlantic
21.15	120 / 576	20	15.00	Ice conditions chart Baltic Sea or special area
21.36	120 / 576	19	12.00	48HR wave prediction Surface weather chart North Atlantic
22.00	120 / 576	19	18.00	Surface Analysis North Atlantic, Europe

VT= Modell day before, H + T = Height + Temperature

© DWD, www.dwd.de

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

Schedule in English language:

https://www.dwd.de/EN/specialusers/shipping/broadcast_en/broadcast_fax_102020.pdf?_blob=publicationFile&v=1

Schedule in German language:

https://www.dwd.de/DE/fachnutzer/schifffahrt/funkausstrahlung/sendeplan_fax_102020.pdf?_blob=publicationFile&v=1

(INFORMATION DATED (24 July 2024))

NORTHWOOD, UNITED KINGDOM

JOMOC HF-Fax Schedule (North Atlantic)

CALL SIGNS	FREQUENCIES	TIMES	EMISSION	POWER
GYA	2618.5kHz	2200Z-0500Z	J3C	10 kw
GYA	4610.0kHz	24 hours	J3C	10 kw
GYA	8040.0kHz	Alternative 24 hour	J3C	10 kw
GYA	11086.5kHz	0600Z-2000Z	J3C	10 kw

Product	Broadcast Time (Z)	Product	Broadcast Time (Z)
18Z SFC ANALYSIS	0000	06Z SFC ANALYSIS	1200
18Z SFC PROGNOSIS T+24	0012	06Z SFC PROGNOSIS T+24	1212
18Z PRECIPITATION AND REDUCED VIS T+12	0024	06Z PRECIPITATION AND REDUCED VIS T+12	1224
18Z PRECIPITATION AND REDUCED VIS T+24	0036	06Z PRECIPITATION AND REDUCED VIS T+24	1236
18Z SFC ANALYSIS	0048	06Z SFC ANALYSIS	1248
18Z SFC PROGNOSIS T+24	0100	06Z SFC PROGNOSIS T+24	1300
18Z SEA AND SWELL T+48	0112	06Z SFC WINDS T+24	1312
18Z SEA AND SWELL T+72	0124	06Z GALE WARNING	1324
OCEAN FRONTS	0136	OCEAN FRONTS	1336
18Z SEA AND SWELL T+24	0148	06Z SEA AND SWELL T+24	1348
18Z SFC ANALYSIS	0200	00Z SEA SURFACE TEMP	1400
00Z SEA SURFACE TEMP	0212	06Z SFC ANALYSIS	1412
18Z SFC PROGNOSIS T+24	0224	06Z SFC PROGNOSIS T+24	1424
00Z SFC ANALYSIS	0236	12Z SFC ANALYSIS	1436
	0248		1448
00Z SFC ANALYSIS	0300	12Z SFC ANALYSIS	1500
	0312	00Z ANPS PROGNOSIS T+24	1512
18Z SFC WINDS T+24	0324	00Z ANPS PROGNOSIS T+120	1524
00Z ANPS PROGNOSIS T+24	0336	06Z SEA AND SWELL T+48	1536
00Z ANPS PROGNOSIS T+72	0348		1548
00Z SFC ANALYSIS	0400	12Z SFC ANALYSIS	1600
	0412		1612
18Z SFC WINDS T+24	0424	06Z SFC WINDS T+24	1624
00Z SFC PROGNOSIS T+24	0436	12Z SFC PROGNOSIS T+24	1636
18Z SFC WINDS T+48	0448	06Z SFC WINDS T+48	1648
00Z SFC ANALYSIS	0500	12Z SFC ANALYSIS	1700
00Z SFC PROGNOSIS T+24	0512	12Z SFC PROGNOSIS T+24	1712
00Z SFC PROGNOSIS T+48	0524	12Z SFC PROGNOSIS T+48	1724
	0536		1736
06Z GALE WARNING	0548	06Z SEA AND SWELL T+72	1748
	0600	12Z SFC ANALYSIS	1800
00Z SFC ANALYSIS	0612	12Z SFC PROGNOSIS T+24	1812
00Z SFC PROGNOSIS T+24	0624	12Z SFC ANALYSIS	1824
00Z SFC ANALYSIS	0636	12Z SFC PROGNOSIS T+24	1836
00Z SFC PROGNOSIS T+24	0648	12Z SFC ANALYSIS	1848
00Z SFC ANALYSIS	0700	12Z SFC PROGNOSIS T+24	1900
00Z SFC PROGNOSIS T+24	0712		1912
00Z SFC PROGNOSIS T+48	0724	12Z SFC PROGNOSIS T+48	1924
00Z SFC PROGNOSIS T+72	0736	12Z SFC PROGNOSIS T+72	1936
00Z SFC PROGNOSIS T+96	0748	12Z SFC PROGNOSIS T+96	1948
00Z SFC PROGNOSIS T+120	0800		2000
00Z SFC PROGNOSIS T+48	0812	12Z SFC PROGNOSIS T+120	2012
00Z PRECIPITATION AND REDUCED VIS T+12	0824	12Z SFC PROGNOSIS T+48	2024
00Z PRECIPITATION AND REDUCED VIS T+24	0836	12Z PRECIPITATION AND REDUCED VIS T+12	2036
00Z SFC PROGNOSIS T+24	0848	12Z SFC PROGNOSIS T+24	2048
06Z SFC ANALYSIS	0900	18Z SFC ANALYSIS	2100
	0912	12Z PRECIPITATION AND REDUCED VIS T+24	2112
00Z ANPS PROGNOSIS T+24	0924	00Z ANPS PROGNOSIS T+24	2124

00Z ANPS PROGNOSIS T+120	0936	00Z ANPS PROGNOSIS T+120	2136
	0948		2148
06Z SFC ANALYSIS	1000	18Z SFC ANALYSIS	2200
06Z SFC PROGNOSIS T+24	1012	18Z SFC PROGNOSIS T+24	2212
	1024		2224
00Z ANPS PROGNOSIS T+24	1036	00Z ANPS PROGNOSIS T+24	2236
	1048		2248
06Z SFC ANALYSIS	1100	18Z SFC ANALYSIS	2300
06Z SFC PROGNOSIS T+24	1112	18Z SFC PROGNOSIS T+24	2312
06Z SEA AND SWELL T+24	1124	18Z SEA AND SWELL T+24	2324
06Z SFC PROGNOSIS T+24	1136	18Z SFC PROGNOSIS T+24	2336
06Z SEA AND SWELL T+24	1148	18Z SEA AND SWELL T+24	2348

All MAPS 54°N.82°W 26°N.45°W

54°N.51°E 28°N.12°

Abbreviations

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

(INFORMATION DATED Jan 05, 2022)

APPENDICES

Appendix A

NATIONAL WEATHER SERVICE PRODUCTS ON THE INTERNET

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** <https://weather.gov/disclaimer>.

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.

NWS Marine Forecasts and Products

You can find National Weather Service (NWS) forecasts, warnings and other information at: <https://weather.gov>
For marine and tropical forecasts, warnings and other information, go to the NWS Marine Weather Services homepage: <https://weather.gov/marine>

On the NWS Marine Services homepage, you will find links to Marine Text Forecasts and Product, Codes used in Marine Weather Broadcasts, Graphic Forecasts and Products including radiofax charts, satellite and radar imagery, sea ice analysis, and forecasts, computer generated model guidance, marine observations and climatological information, foreign marine forecasts, information about FTPMail, Tide predictions, storm surge guidance, archives of weather forecasts and observations, other marine forecast websites and marine publications.

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. 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. To get started in using the NWS FTPMAIL service, visit <https://www.weather.gov/marine/faq#3> or follow these simple directions to obtain the FTPMAIL "help" file (11 Kbytes).

Send an e-mail to: NWS.FTPMail.OPS@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/

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

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* <https://weather.gov/alerts>, and for *hurricane watches and warnings* <https://www.nhc.noaa.gov/aboutrss.shtml>, via RSS <https://weather.gov/alerts/#rss> and CAP/XML <https://weather.gov/alerts/#cap> to aid the automated dissemination of this information.

Change Notices

For details on changes to NWS products, visit these pages <https://www.weather.gov/notification>
<https://www.weather.gov/asos/ChangeManagement> <https://www.weather.gov/tg/>

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.

<https://tgftp.nws.noaa.gov/data/forecasts/marine/>
<ftp://tgftp.nws.noaa.gov/data/forecasts/marine/>
<https://tgftp.nws.noaa.gov/data/raw/>
<ftp://tgftp.nws.noaa.gov/data/raw/>
<https://www.ndbc.noaa.gov/data/Forecasts/>
<https://tgftp.nws.noaa.gov/data/>
https://forecast.weather.gov/product_types.php
<https://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.

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

NATIONAL WEATHER SERVICE INTERNET SITES

NWS Homepage	https://weather.gov
NWS Marine Forecasts	https://weather.gov/marine
NWS Marine Radiofax Products	https://www.weather.gov/marine/radiofax_charts
NWS Voluntary Observing Ship Program	https://www.vos.noaa.gov/

U.S. NAVY AND OTHER WEATHER INTERNET SITES

Naval Oceanography Portal	https://www.metoc.navy.mil/
International Ice patrol	https://www.navcen.uscg.gov/international-ice-patrol
National Ice Center	https://usicecenter.gov/
WMO Homepage	https://public.wmo.int/en

[Worldwide Met-Ocean Warning and Information Service](#)

[USCG Maritime Telecommunications](#)

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.

Please read our ***disclaimer*** <https://weather.gov/disclaimer>

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 technical assistance with FTPMAIL contact: *
*                                     *
*   marine.weather@noaa.gov           301-427-9390 *
*                                     *
*****
```

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

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

Effective September 07, 2016, the address of the FTPMAIL service changed from ftpmail@ftpmail.nws.noaa.gov to NWS.FTPMail.OPS@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 NWS.FTPMail.OPS@noaa.gov.

99% of errors using ftpmail are simple typing errors, incorrect capitalization, failure to send in plain text format, leading or trailing spaces, or failure to set up any spam filters properly. See section on ensuring e-mail requests are sent in the proper format and follow the examples closely.

Check time and date of forecasts. Downloaded data may not represent the latest forecast. The NWS operational server is available 24 hours a day, seven days a week. Timely delivery of data and products from this server through the Internet is not guaranteed. Official NWS dissemination systems which can provide timely delivery of data and products are listed below.

NOAA Weather Radio
NOAA Weather Wire
EMWIN®
NOAAPORT
National Weather Service Offices and Centers

Please read our disclaimer at <https://www.weather.gov/disclaimer>

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

<ftp://tgftp.nws.noaa.gov/> is the only valid FTP site for this service.

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

-In plain text format-

Send an e-mail to: NWS.FTPMail.OPS@noaa.gov
Subject Line: Put anything you like
Body: help

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 less than one hour, however, performance may vary widely and the NWS cannot guarantee receipt.

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 NWS.FTPMail.OPS@noaa.gov Internet FTP server is accessible using the FTPMAIL service.

To begin using the FTPMAIL service, the user sends a small script file via e-mail requesting the desired file(s). A list of available product directories and file names can be seen by clicking the link below.

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

A listing of all available product descriptions, file names, times the product is available and issuing center can be viewed at the link below. It will help you determine which products you want/need to receive using FTPMAIL.

https://tgftp.nws.noaa.gov/fax/Amaster_index.html

ENSURING YOUR E-MAIL IS IN THE PROPER FORMAT

FTPMAIL e-mail requests must be sent in ASCII/Plain Text only.

HTML formatting will likely result in no response from the FTPMAIL server.

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/

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 which are greater than approximately 400KB in length may be sent as multiple e-mails which must then be appended to another and UUdecoded. This can be avoided using the "size" command following the "open" statement, e.g. "size 1000000." The maximum allowable is 2MB.

Files sizes for NWS radiofax graphic files average 35KB but can be much greater especially some satellite images which can approach 1MB. Use the "dir" command to ascertain the size of files of interest as a precaution. 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 <https://tgftp.nws.noaa.gov/fax/rfaxtif.txt>

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]]]'
```

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

The majority of error messages have been disabled. You 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.

EXAMPLES

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:

-In plain text format-

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

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

Example scripts are:

help

Connect to default site (tgftp.nws.noaa.gov) and send back
this help file to e-mail address of requester

```
open
cd fax
get PWAE98.TIF (24 hour wind and wave graphic forecast for the Atlantic)
quit
```

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

```
open
cd data
cd forecasts
cd marine
cd coastal
cd an
get anz231.txt (text marine forecast for Cape Cod Bay)
quit
```

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

```
open
cd data
cd forecasts
cd zone
cd md
get mdz004.txt (Text of land forecast for Frederick County Maryland)
quit
```

Connect to default site (tgftp.nws.noaa.gov) and send back public
land zone forecast MDZ004 to e-mail address of requester.
(Contact your local forecast office to identify the public
forecast zone number for your county, known as the UGC code)
Zones lists by State may also be found at <http://alerts.weather.gov/>

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 and nearshore forecasts text file dir)
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 nearshore 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 requester.

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

Example:

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

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

IMPORTANT NWS WEBPAGES AVAILABLE ON THE INTERNET

NWS watch warning advisory webpage
<https://www.weather.gov/>

NWS Marine Forecast webpage
<https://www.weather.gov/marine>

NWS Mobile Device webpage
<mobile.weather.gov>

Ocean Prediction Center
<https://ocean.weather.gov/>

Tropical Analyses and Forecast Branch webpage
<https://www.nhc.noaa.gov/marine/>

Hawaii Marine Products webpage
<https://www.weather.gov/hfo/marine>

Document URL: <https://www.weather.gov/media/marine/ftpmail.txt>
<ftp://tgftp.nws.noaa.gov/fax/ftpmail.txt>

FTPMAIL commands for NWS.FTPMail.OPS@noaa.gov FTPMAIL server

**** IMPORTANT NOTICES ****

Effective September 07, 2016, the address of the FTPMAIL service changed from NWS.FTPMail.OPS@noaa.gov to NWS.FTPMail.OPS@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 NWS.FTPMail.OPS@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 NWS.FTPMail.OPS@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 request

>>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 split up 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, Tropical, and Tsunami Services Branch, W/AFS26
 National Weather Service
 Last Modified Sep 12, 2008
 Document URL: <https://tgftp.nws.noaa.gov/fax/ftpcmd.txt>
<ftp://tgftp.nws.noaa.gov/fax/ftpcmd.txt>

NATIONAL WEATHER SERVICE RADIOFAX PRODUCTS
for the Western Atlantic Ocean

**** IMPORTANT NOTICES ****

Effective September 07, 2016, the address of the FTPMAIL service changed from ftpmail@ftpmail.nws.noaa.gov to NWS.FTPMail.OPS@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 NWS.FTPMail.OPS@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.

-In plain text format-

Send an e-mail to: NWS.FTPMail.OPS@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 https://tgftp.nws.noaa.gov/fax

For information of how these files and other text and graphic marine forecasts may be downloaded via e-mail (FTPMAIL) see:
<https://tgftp.nws.noaa.gov/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:

-In plain text format-

Send an e-mail to: NWS.FTPMail.OPS@noaa.gov
Subject line: Put anything you like
Body: open
cd fax
get PPAE10.TIF
get PWAE98.gif
quit

Clicking on the links to each product on the next several pages opens up an email to ews.ftpmail.OPS@noaa.gov. To send an email requesting the product, put the following ftp commands in the email (plain text only).

```
open
cd fax
get FILE NAME
quit
```

For example, to request the 12Z Sea State Analysis, 10E-95W Northern Hemisphere, the ftp commands within the email are:

```
open
cd fax
get PJAA99.TIF
quit
```

These files may be found in directories:

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

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

	FILE NAME
WIND/SEAS CHARTS	
12Z Sea State Analysis, 10E-95W Northern Hemisphere	PJAA99.TIF
00Z Wind/Wave Analysis, 40W-98W Northern Hemisphere	PWAA88.TIF
12Z Wind/Wave Analysis, 40W-98W Northern Hemisphere	PWAA89.TIF
Wind/Wave Analysis, (Most Current)	PWAA90.TIF
24HR Wind/Wave Chart VT00Z Forecast 40W-98W N. Hemisphere	PWAE98.TIF
24HR Wind/Wave Chart VT12Z Forecast 40W-98W N. Hemisphere	PWAE99.TIF
24HR Wind/Wave Chart Forecast (Most Current)	PWAE10.TIF
48HR Wind/Wave VT00Z Forecast 10E-95W Northern Hemisphere	PJAI98.TIF
48HR Wind/Wave VT12Z Forecast 10E-95W Northern Hemisphere	PJAI99.TIF
48HR Wind/Wave Chart Forecast (Most Current)	PJAI10.TIF
48HR Wave Period VT00Z Forecast 10E-95W Northern Hemisphere	PJAI88.TIF
48HR Wave Period VT12Z Forecast 10E-95W Northern Hemisphere	PJAI89.TIF
48HR Wave Period Chart Forecast (Most Current)	PJAI20.TIF
96HR Wind/Wave Chart VT12Z Forecast 10E-95W N. Hemisphere	PJAM98.TIF
96HR Wave Period VT12Z Forecast 10E-95W N. Hemisphere	PJAM88.TIF

SURFACE CHARTS

00Z Preliminary Surface Chart Analysis 45W-85W N. Hemisphere	PYAA10.TIF
06Z Preliminary Surface Chart Analysis 45W-85W N. Hemisphere	PYAB01.TIF
12Z Preliminary Surface Chart Analysis 45W-85W N. Hemisphere	PYAC01.TIF
18Z Preliminary Surface Chart Analysis 45W-85W N. Hemisphere	PYAD01.TIF
Preliminary Surface Chart Analysis (Most Current)	PYAD10.TIF
00Z Surface Analysis Chart, Part 1, 10E-45W N. Hemisphere	PYAA01.TIF
00Z Surface Analysis Chart, Part 2, 40W-95W N. Hemisphere	PYAA02.TIF
06Z Surface Analysis Chart, Part 1, 10E-45W N. Hemisphere	PYAA03.TIF
06Z Surface Analysis Chart, Part 2, 40W-95W N. Hemisphere	PYAA04.TIF

12Z Surface Analysis Chart, Part 1, 10E-45W N. Hemisphere [PYAA05.TIF](#)
12Z Surface Analysis Chart, Part 2, 40W-95W N. Hemisphere [PYAA06.TIF](#)
18Z Surface Analysis Chart, Part 1, 10E-45W N. Hemisphere [PYAA07.TIF](#)
18Z Surface Analysis Chart, Part 2, 40W-95W N. Hemisphere [PYAA08.TIF](#)
 Surface Analysis Chart, Part 1, (Most Current) [PYAA11.TIF](#)
 Surface Analysis Chart, Part 2, (Most Current) [PYAA12.TIF](#)
24HR Surface Chart VT00Z Forecast 40W-98W Northern Hemisphere [PPAE00.TIF](#)
24HR Surface Chart VT12Z Forecast 40W-98W Northern Hemisphere [PPAE01.TIF](#)
24HR Surface Chart Forecast (Most Current) [PPAE10.TIF](#)
48HR Surface Chart VT00Z Forecast 10E-95W Northern Hemisphere [QDTM85.TIF](#)
48HR Surface Chart VT12Z Forecast 10E-95W Northern Hemisphere [QDTM86.TIF](#)
48HR Surface Chart Forecast (Most Current) [QDTM10.TIF](#)

96HR Surface Chart VT12Z Forecast 10E-95W Northern Hemisphere [PWAM99.TIF](#)

UPPER AIR CHARTS

00Z 500 mb Surface Chart Analysis 10E-95W Northern Hemisphere [PPAA50.TIF](#)
12Z 500 mb Surface Chart Analysis 10E-95W Northern Hemisphere [PPAA51.TIF](#)
 500 mb Surface Chart Analysis (Most Current) [PPAA10.TIF](#)
24HR 500 mb Chart VT00Z Forecast 10E-95W Northern Hemisphere [PPAE50.TIF](#)
24HR 500 mb Chart VT12Z Forecast 10E-95W Northern Hemisphere [PPAE51.TIF](#)
24HR 500 mb Chart Forecast (Most Current) [PPAE11.TIF](#)
36HR 500 mb Chart VT00Z Forecast 10E-95W Northern Hemisphere [PPAG50.TIF](#)
36HR 500 mb Chart VT12Z Forecast 10E-95W Northern Hemisphere [PPAG51.TIF](#)
36HR 500 mb Chart Forecast (Most Current) [PPAG11.TIF](#)
48HR 500 mb Chart VT00Z Forecast 10E-95W Northern Hemisphere [PPAI50.TIF](#)
48HR 500 mb Chart VT12Z Forecast 10E-95W Northern Hemisphere [PPAI51.TIF](#)
48HR 500 mb Chart Forecast (Most Current) [PPAI10.TIF](#)
96HR 500 mb 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:
<https://www.natice.noaa.gov/>)

SCHEDULE INFORMATION

Radiofax Schedule Part 1 (Boston, MA) [PLAZ01.TIF](#)
Radiofax Schedule Part 2 (Boston, MA) [PLAZ02.TIF](#)
Radiofax Schedule (DOS Text Version) [hfmarsht.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

Document URL: <https://tgftp.nws.noaa.gov/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 September 07, 2016, the address of the FTPMAIL service changed from NWS.FTPMail.OPS@noaa.gov to NWS.FTPMail.OPS@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 NWS.FTPMail.OPS@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.

-In plain text format-

Send an e-mail to: NWS.FTPMail.OPS@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 <https://tgftp.nws.noaa.gov/fax>

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

.TIF files now also available as .gif files

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e-mail. The following is an example in the use of the FTPMAIL system. NOTE CAPITALIZATION!

Example using FTPMAIL:

```
-In plain text format-
Send an e-mail to:      NWS.FTPMail.OPS@noaa.gov
Subject line:          Put anything you like
Body:                 open
                       cd fax
                       get PWBE10.TIF
                       get PWBM99.gif
                       quit
```

Clicking on the links to each product on the next several pages opens up an email to nws.ftpmail.OPS@noaa.gov. To send an email requesting the product, put the following ftp commands in the email (plain text only).

```
open
cd fax
get FILE NAME
quit
```

For example, to request the 00Z Sea State Analysis, 20N-70N, 115W-135E, the ftp commands within the email are:

```
open
cd fax
get PJBA99.TIF
quit
```

These files may be found in directories:

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

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

TROPICAL WIND/WAVE CHARTS

Tropical Sea State Analysis VT00Z 20S-30N, E of 145W [PKFA88.TIF](#)

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

SURFACE CHARTS

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

TROPICAL SURFACE CHARTS

00Z East Pacific Surface Analysis 20S-30N, E of 145W	PYFA96.TIF
06Z East Pacific Surface Analysis 20S-30N, E of 145W	PYFA97.TIF
12Z East Pacific Surface Analysis 20S-30N, E of 145W	PYFA98.TIF
18Z East Pacific Surface Analysis 20S-30N, E of 145W	PYFA99.TIF
East Pacific Surface Analysis Most Current	PYFA90.TIF
@00Z U.S./Tropical Surface Analysis 5S-50N, 55W-125W	PYEB86.TIF
@06Z U.S./Tropical Surface Analysis 5S-50N, 55W-125W	PYEB87.TIF
@12Z U.S./Tropical Surface Analysis 5S-50N, 55W-125W	PYEB85.TIF
@18Z U.S./Tropical Surface Analysis 5S-50N, 55W-125W	PYEB88.TIF
@ U.S./Tropical Surface Analysis (Most Current)	PYEB11.TIF
@24HR Tropical Surface ForecastVT00, 20S-30N, 80W-145W	PYFE79.TIF
@24HR Tropical Surface ForecastVT12, 20S-30N, 80W-145W	PYFE80.TIF
@24HR Tropical Surface Forecast (Most Current);	PYFE10.TIF
48HR Tropical Surface ForecastVT00, 20S-30N, 80W-145W	PYFI81.TIF
48HR Tropical Surface ForecastVT12, 20S-30N, 80W-145W	PYFI82.TIF
48HR Tropical Surface Forecast (Most Current);	PYFI10.TIF
@72HR Tropical Surface ForecastVT00, 20S-30N, 80W-145W	PYFK83.TIF
@72HR Tropical Surface ForecastVT12, 20S-30N, 80W-145W	PYFK84.TIF
@72HR Tropical Surface Forecast (Most Current);	PYFK10.TIF

UPPER AIR CHARTS

00Z 500 mb Analysis 20N-70N 115W-135E	PPBA50.TIF
12Z 500 mb Analysis 20N-70N, 115W-135E	PBBA51.TIF
500 mb Analysis (Most Current)	PPBA10.TIF
24HR 500 mb Forecast VT00Z 20N-70N, 115W-135E	PPBE50.TIF
24HR 500 mb Forecast VT12Z 20N-70N, 115W-135E	PPBE51.TIF
24HR 500 mb Forecast (Most Current)	PPBE11.TIF
48HR 500 mb Forecast VT00Z 20N-70N, 115W-135E	PPBI50.TIF
48HR 500 mb Forecast VT12Z 20N-70N, 115W-135E	PPBI51.TIF
48HR 500 mb Forecast (Most Current)	PPBI10.TIF
96HR 500 mb VT12Z 20N-70N, 115W-135E	PPBM50.TIF

TROPICAL CYCLONE CHARTS

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

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

SEA SURFACE TEMPERATURES

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

SATELLITE IMAGERY

@00Z GOES IR Satellite Image, Tropical East Pacific	evpn02.jpg
06Z GOES IR Satellite Image, Tropical East Pacific	evpn07.jpg
@12Z GOES IR Satellite Image, Tropical East Pacific	evpn04.jpg
18Z GOES IR Satellite Image, Tropical East Pacific	evpn08.jpg
GOES IR Satellite Image, Tropical East Pac (MOST CURRENT)	evpn10.jpg
@06Z GOES IR Satellite Image, East Pacific	evpn03.jpg
12Z GOES IR Satellite Image, East Pacific	evpn13.jpg
@18Z GOES IR Satellite Image, East Pacific	evpn14.jpg
21Z GOES VISIBLE Satellite Image, East Pacific	evpn00.jpg
GOES Satellite Image, East Pacific (MOST CURRENT)	evpn98.jpg
00Z GOES IR Satellite Image, Pacific	evpn01.jpg
06Z GOES IR Satellite Image, Pacific	evpn06.jpg
12Z GOES IR Satellite Image, Pacific	evpn12.jpg
18Z GOES IR Satellite Image, Pacific	evpn18.jpg
GOES IR Satellite Image, Pacific (MOST CURRENT)	evpn99.jpg

SCHEDULE INFORMATION

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

@ 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.

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

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

**** IMPORTANT NOTICES ****

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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.

-In plain text format-

Send an e-mail to: NWS.FTPMail.OPS@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 <https://tgftp.nws.noaa.gov/fax>

For information of how these files and other text and graphic marine forecasts may be downloaded via e-mail (FTPMAIL) see: <https://tgftp.nws.noaa.gov/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:

-In plain text format-

Send an e-mail to: NWS.FTPMail.OPS@noaa.gov
Subject line: Put anything you like
Body: open
cd fax
get PWEE11.TIF
get PYEA11.gif
quit

Clicking on the links to each product on the next several pages opens up an email to nws.ftpmail.OPS@noaa.gov. To send an email requesting the product, put the following ftp commands in the email (plain text only).

```
open
cd fax
get FILE NAME
quit
```

For example, to request the 00Z Sea State Analysis, 0N-31N, 35W-100W, the ftp commands within the email are:

```
open
cd fax
get PJEA88.TIF
quit
```

These files may be found in directories:

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

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

WIND/WAVE CHARTS

FILE
NAME

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

SURFACE CHARTS

@00Z U.S./Tropical Surface Analysis (W Half) 5S-50N,55W-125W	PYEB86.TIF
@06Z U.S./Tropical Surface Analysis (W Half) 5S-50N,55W-125W	PYEB87.TIF
@12Z U.S./Tropical Surface Analysis (W Half) 5S-50N,55W-125W	PYEB85.TIF
@18Z U.S./Tropical Surface Analysis (W Half) 5S-50N,55W-125W	PYEB88.TIF
@ U.S./Tropical Surface Analysis (W Half) (Most Current)	PYEB11.TIF
00Z Tropical Surface Analysis (E Half) 5S-50N, 0W-70W	PYEA86.TIF

06Z Tropical Surface Analysis (E Half) 5S-50N, 0W-70W	PYEA87.TIF
12Z Tropical Surface Analysis (E Half) 5S-50N, 0W-70W	PYEA85.TIF
18Z Tropical Surface Analysis (E Half) 5S-50N, 0W-70W	PYEA88.TIF
Tropical Surface Analysis (E Half) (Most Current)	PYEA11.TIF
24HR Tropical Surface Forecast (E Half)VT00,00N-31N, 35W-100W	PYEE79.TIF
24HR Tropical Surface Forecast (E Half)VT12,00N-31N, 35W-100W	PYEE80.TIF
Tropical Surface Forecast (Most Current)	PYEE10.TIF
48HR Tropical Surface Forecast (E Half)VT00,00N-31N, 35W-100W	PYEI81.TIF
48HR Tropical Surface Forecast (E Half)VT12,00N-31N, 35W-100W	PYEI82.TIF
Tropical Surface Forecast (Most Current)	PYEI10.TIF
72HR Tropical Surface Forecast (E Half)VT00,00N-31N, 35W-100W	PYEK83.TIF
72HR Tropical Surface Forecast (E Half)VT12,00N-31N, 35W-100W	PYEK84.TIF
Tropical Surface Forecast (Most Current)	PYEK10.TIF

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

TROPICAL CYCLONE CHARTS

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

HIGH SEAS FORECASTS

04Z High Seas Forecast 7N-31N, 35W-98W, In English	PLEA86.TIF
10Z High Seas Forecast 7N-31N, 35W-98W, In English	PLEA87.TIF
16Z High Seas Forecast 7N-31N, 35W-98W, In English	PLEA89.TIF
22Z High Seas Forecast 7N-31N, 35W-98W, In English	PLEA88.TIF
High Seas Forecast (Most Current)	PLEA10.TIF

SATELLITE IMAGERY

0645Z GOES IR Satellite Image, 12S-44N, 28W-112W	evst06.jpg
1145Z GOES IR Satellite Image, 12S-44N, 28W-112W	evst12.jpg
1745Z GOES IR Satellite Image, 12S-44N, 28W-112W	evst18.jpg
2345Z GOES IR Satellite Image, 12S-44N, 28W-112W	evst00.jpg
GOES IR Satellite Image (Most Current)	evst99.jpg

SCHEDULE INFORMATION

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

* Tropical Cyclone Danger Area chart replaced by 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

Document URL: <https://tgftp.nws.noaa.gov/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 September 07, 2016, the address of the FTPMAIL service changed from NWS.FTPMail.OPS@noaa.gov to NWS.FTPMail.OPS@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 NWS.FTPMail.OPS@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.

-In plain text format-

Send an e-mail to: NWS.FTPMail.OPS@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, 12410.6 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 <https://tgftp.nws.noaa.gov/fax>

For information of how these files and other text and graphic marine forecasts may be downloaded via e-mail (FTPMAIL) see: <https://tgftp.nws.noaa.gov/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:

-In plain text format-

Send an e-mail to: NWS.FTPMail.OPS@noaa.gov
Subject line: Put anything you like
Body: open
cd fax
get PJB199.TIF
get PYBE10.gif
quit

Clicking on the links to each product on the next several pages opens up an email to ews.ftpmail.OPS@noaa.gov. To send an email requesting the product, put the following ftp commands in the email (plain text only).

```
open
cd fax
get FILE NAME
quit
```

For example, to request the 12Z Sea State Analysis 20N-70N, 115W-135E, the ftp commands within the email are:

```
open
cd fax
get PJBA99.TIF
quit
```

These files may be found in directories:
<ftp://tgftp.nws.noaa.gov/fax> or
<https://tgftp.nws.noaa.gov/fax>

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

SURFACE CHARTS	
00Z Surface Analysis 40N-70N, 125W-150E	PYCA00.TIF
06Z Surface Analysis 40N-70N, 125W-150E	PYCA01.TIF
12Z Surface Analysis 40N-70N, 125W-150E	PYCA02.TIF
18Z Surface Analysis 40N-70N, 125W-150E	PYCA03.TIF
Surface Analysis (Most Current)	PYCA10.TIF
24HR Surface Chart Forecast VT00Z 40N-70N, 115W-170E	PYBE00.TIF
24HR Surface Chart Forecast VT12Z 40N-70N, 115W-170E	PYBE01.TIF
24HR Surface Chart Forecast (Most Current)	PYBE10.TIF
48HR Surface Chart Forecast VT00Z 20N-70N 115W-135E	PWBI99.TIF

48HR Surface Chart Forecast VT12Z 20N-70N 115W-135E [PWBI98.TIF](#)
48HR Surface Chart Forecast (Most Current) [PWBI10.TIF](#)
96HR Surface Chart Forecast VT12Z [PWBM99.TIF](#)
UPPER AIR CHARTS

00Z 500 mb Analysis 20N-70N 115W-135E [PPBA50.TIF](#)
12Z 500 mb Analysis 20N-70N, 115W-135E [PBBA51.TIF](#)
500 mb Analysis (Most Current) [PPBA10.TIF](#)
24HR 500 mb Forecast VT00Z 20N-70N, 115W-135E [PPBE50.TIF](#)
24HR 500 mb Forecast VT12Z 20N-70N, 115W-135E [PPBE51.TIF](#)
24HR 500 mb Forecast (Most Current) [PPBE11.TIF](#)
48HR 500 mb Forecast VT00Z 20N-70N, 115W-135E [PPBI50.TIF](#)
48HR 500 mb Forecast VT12Z 20N-70N, 115W-135E [PPBI51.TIF](#)
48HR 500 mb Forecast (Most Current) [PPBI10.TIF](#)
96HR 500 mb VT12Z 20N-70N, 115W-135E [PPBM50.TIF](#)

SEA SURFACE TEMPERATURES

Sea Surface Temperature Analysis 40N-60N,125W - 160E [PTCA88.TIF](#)

SATELLITE IMAGERY

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

ICE CHARTS

Sea Ice Analysis [PTCA89.TIF](#)
5 Day Sea Ice Forecast [PTCO89.TIF](#)
Cook Inlet Sea Ice Analysis [PTCA87.TIF](#)

SCHEDULE INFORMATION and MISCELLANEOUS

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

xxxxxx.xxx = Currently unavailable

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

Document URL: <https://tgftp.nws.noaa.gov/fax/rfaxak.txt>
<ftp://tgftp.nws.noaa.gov/fax/rfaxak.txt>

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

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-In plain text format-

Send an e-mail to: NWS.FTPMail.OPS@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 <https://tgftp.nws.noaa.gov/fax>

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

xxxxxx (Not yet available from these directories)

.TIF files now also available as .gif files

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Example using FTPMAIL:

-In plain text format-

Send an e-mail to: NWS.FTPMail.OPS@noaa.gov
Subject line: Put anything you like
Body: open
cd fax
get PJFD89.TIF
get PBFA11.gif
quit

Clicking on the links to each product on the next several pages opens up an email to nws.ftpmail.OPS@noaa.gov. To send an email requesting the product, put the following ftp commands in the email (plain text only).

```
open
cd fax
get FILE NAME
quit
```

For example, to request the 00Z Pacific Wind/Wave Analysis 30S-30N, 110W-130E, the ftp commands within the email are:

```
open
cd fax
get PJFB89.TIF
quit
```

These files may be found in directories:

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

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

WIND/WAVE CHARTS - CENTRAL PACIFIC

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

WIND/WAVE CHARTS - SE PACIFIC

Tropical Sea State Analysis VT00Z 20S-30N, E of 145W	PKFA88.TIF
Tropical Sea State Analysis VT12Z 20S-30N, E of 145W	PKFA89.TIF
Tropical Sea State Analysis (Most Current)	PKFA10.TIF
24HR Wind/Wave Forecast VT00Z 20S-30N, E of 145W	PWFE01.TIF
24HR Wind/Wave Forecast VT12Z 20S-30N, E of 145W	PWFE03.TIF
24HR Wind/Wave Forecast (Most Current)	PWFE10.TIF
48HR Wind/Wave Forecast VT00Z 20S-30N, E of 145W	PWFI88.TIF
48HR Wind/Wave Forecast VT12Z 20S-30N, E of 145W	PWFI90.TIF
48HR Wind/Wave Forecast (Most Current)	PWFI10.TIF
@48HR Wave Period/Swell Direction VT00Z 20S-30N, E of 145W	PJFI87.TIF
48HR Wave Period/Swell Direction VT12Z 20S-30N, E of 145W	PJFI88.TIF

48HR Wave Period/Swell Direction (Most Current)	PJFI11.TIF
72HR Wind/Wave Forecast VT00Z 20S-30N, E of 145W	PWFK92.TIF
72HR Wind/Wave Forecast VT12Z 20S-30N, E of 145W	PWFK93.TIF
72HR Wind/Wave Forecast (Most Current)	PWFK10.TIF
72HR Wave Period/Swell Direction VT00Z 20S-30N,E of 145W	PJFK93.TIF

WIND/WAVE CHARTS - NORTH PACIFIC

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

SURFACE CHARTS - CENTRAL PACIFIC

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

72HR Pacific Surface Forecast VT00Z 30S-50N 110W-130E	PYFK87.TIF
72HR Pacific Surface Forecast VT12Z 30S-50N 110W-130E	PYFK88.TIF
72HR Pacific Surface Forecast (Most Current)	PYFK11.TIF

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

SURFACE CHARTS - SE PACIFIC

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

SURFACE CHARTS - NORTH PACIFIC

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

TROPICAL CYCLONE CHARTS - PACIFIC

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

SEA SURFACE TEMPERATURE CHARTS

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

[PTFA88.TIF](#)

SATELLITE IMAGERY (IR)

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

SCHEDULE INFORMATION

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

@ Not transmitted via Honolulu radiofax but listed here for convenience

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

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

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

**** IMPORTANT NOTICES ****

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-In plain text format-

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Subject Line: Put anything you like
Body: help

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

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-In plain text format-

```
Send an e-mail to:   NWS.FTPMail.OPS@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

Clicking on the links to each product on the next several pages opens up an email to nws.ftpmail.OPS@noaa.gov. To send an email requesting the product, put the following ftp commands in the email (plain text only).

```
cd data
cd forecasts
cd marine
cd high seas
get FILE NAME
quit
```

For example, to request the Northwest Atlantic High seas (GMDSS Area IV), the ftp commands within the email are:

```
cd data
cd forecasts
cd marine
cd high seas
get north atlantic.txt
quit
```

These files may be found in directories:

```
ftp://tgftp.nws.noaa.gov/data/forecasts/marine/high_seas/
https://tgftp.nws.noaa.gov/data/forecasts/marine/high_seas/
```

PRODUCT DESCRIPTION

FILE NAME

Northwest Atlantic High seas (GMDSS Area IV)	north atlantic.txt
Northeast Pacific High seas (GMDSS Area XII)	north pacific.txt
25S-0N, 160E-120W South Central Pacific	south hawaii.txt
30-60N, east of 160 E (p/o NE Pacific)	east pacific 1.txt
0-30N, E of 140W (p/o NE Pacific)	east pacific 2.txt
0-30N, 160E-140W (p/o NE Pacific)	north hawaii.txt

FORECAST DISCUSSION

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

Example to request the forecast discussion for the Northwest Atlantic:

-In plain text format-

Send an e-mail to: NWS.FTPMail.OPS@noaa.gov
Subject Line: Put anything you like
Body: open
cd data
cd raw
cd ag
get agnt40.kWnm.mim.atn.txt
quit

PRODUCT DESCRIPTION

FILE NAME

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

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

OFFSHORE FORECASTS

Clicking on the links to the Offshore, NAVTEX and Open Lake products on the next several pages opens up an email to nws.ftpmail.OPS@noaa.gov. To send an email requesting the product, put the following ftp commands in the email (plain text only).

```
open
cd data
cd raw
cd fz
get FILE NAME
quit
```

For example, to request the Offshore forecast for New England, the ftp commands within the email are:

```
open
cd data
cd raw
cd fz
get fznt21.kWbc.off.nt1.txt
quit
```

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

Example:

-In plain text format-

Send an e-mail to: NWS.FTPMail.OPS@noaa.gov
Subject Line: Put anything you like
Body: open
cd data
cd raw

```
cd fz
get fznt21.kWbc.off.nt1.txt
quit
```

PRODUCT DESCRIPTION	FILE NAME
New England	fznt21.kWbc.off.nt1.txt
Short version for radio broadcast	fznt33.kWbc.off.n31.txt
Mid-Atlantic	fznt22.kWbc.off.nt2.txt
Short version for radio broadcast	fznt34.kWbc.off.n32.txt
SW North Atlantic, Caribbean	fznt23.knhc.off.nt3.txt
Short version for radio broadcast	fznt31.knhc.off.n20.txt
Gulf of Mexico	fznt24.knhc.off.nt4.txt
Short version for radio broadcast*	fznt32.knhc.off.n21.txt
Washington, Oregon	fzpn25.kWbc.off.pz5.txt
Short version for radio broadcast	fzpn35.kWbc.off.n35.txt
California	fzpn26.kWbc.off.pz6.txt
Short version for radio broadcast	fzpn36.kWbc.off.n36.txt
Eastern Gulf of Alaska	fzak67.pajk.off.ajk.txt
Western Gulf of Alaska	fzak61.pafc.off.aer.txt
Bering Sea	fzak62.pafc.off.alu.txt
U.S. Arctic (Experimental)	fzak69.pafg.off.afg.txt
Hawaii	fzhw60.phfo.off.hfo.txt

NAVTEX FORECASTS

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

These files may be found in directories:
<ftp://tgftp.nws.noaa.gov/data/raw/fz/>
<https://tgftp.nws.noaa.gov/data/raw/fz/>

Example:

```
-In plain text format-
Send an e-mail to:      NWS.FTPMail.OPS@noaa.gov
Subject Line:           Put anything you like
Body:                   open
                        cd data
                        cd raw
                        cd fz
                        get fznt23.kWnm.off.n01.txt
                        quit
```

NAVTEX FORECASTS

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

Example:

```
Send an e-mail to:      NWS.FTPMail.OPS@noaa.gov
Subject Line:           Put anything you like
Body:                   open
                        cd data
                        cd raw
                        cd fz
                        get fznt23.kWnm.off.n01.txt
                        quit
```

PRODUCT DESCRIPTION

FILE NAME

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

OPEN LAKE FORECASTS

These files may be found in directories:

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

<https://tgftp.nws.noaa.gov/data/raw/fz/>

Example:

-In plain text format-

Send an e-mail to: NWS.FTPMail.OPS@noaa.gov

Subject Line: Put anything you like

Body:

```

open
cd data
cd raw
cd fz
get fzus61.kbuf.glf.sl.txt
quit
    
```

PRODUCT DESCRIPTION

FILE NAME

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

Document URL: <https://tgftp.nws.noaa.gov/fax/marinel.txt>

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

NATIONAL WEATHER SERVICE MARINE TEXT PRODUCTS
HURRICANE PRODUCTS

**** IMPORTANT NOTICES ****

Effective September 07, 2016, the address of the FTPMAIL service changed from NWS.FTPMail.OPS@noaa.gov to NWS.FTPMail.OPS@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 NWS.FTPMail.OPS@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.

-In plain text format-

Send an e-mail to: NWS.FTPMail.OPS@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!

-In plain text format-

Send an e-mail to: NWS.FTPMail.OPS@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

Clicking on the links to the Hurricane products on the next several pages opens up an email to nws.ftpmail.OPS@noaa.gov. To send an email requesting the product, put the following ftp commands in the email (plain text only).

```
open
cd data
cd hurricane_products
cd atlantic
cd weather
get FILE NAME
```

```

cd /data
cd hurricane_products
cd atlantic
cd storm_2
get FILE_NAME
quit

```

For example, to request the Tropical Weather Outlook for the Atlantic, the ftp commands within the email are:

```

open
cd data
cd hurricane_products
cd atlantic
cd weather
get outlook.txt
quit

```

These files may be found in directories:
ftp://tgftp.nws.noaa.gov/data/hurricane_products/atlantic
https://tgftp.nws.noaa.gov/data/hurricane_products/atlantic

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

*Recommended products for mariners

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 directories:

ftp://tgftp.nws.noaa.gov/data/hurricane_products/eastern_pacific

https://tgftp.nws.noaa.gov/data/hurricane_products/eastern_pacific

PRODUCT DESCRIPTION	FILE NAME
Tropical WX Outlook	/weather/outlook.txt
Tropical WX Discussion	/weather/discussion.txt
Tropical WX Summary	/weather/summary.txt
Tropical WX Disturbance Stmt	/weather/advisory.txt
Tropical Cyclone Update (Storm #1)	/storm 1/update.txt
Tropical Cyclone Update (Storm #2)	/storm 2/update.txt
Tropical Cyclone Update (Storm #3)	/storm 3/update.txt
Tropical Cyclone Update (Storm #4)	/storm 4/update.txt
Tropical Cyclone Update (Storm #5)	/storm 5/update.txt
Tropical Cyclone Discussion (Storm #1)	/storm 1/discussion.txt
Tropical Cyclone Discussion (Storm #2)	/storm 2/discussion.txt
Tropical Cyclone Discussion (Storm #3)	/storm 3/discussion.txt
Tropical Cyclone Discussion (Storm #4)	/storm 4/discussion.txt
Tropical Cyclone Discussion (Storm #5)	/storm 5/discussion.txt
Public Advisory (Storm #1)	/storm 1/advisory.txt
Public Advisory (Storm #2)	/storm 2/advisory.txt
Public Advisory (Storm #3)	/storm 3/advisory.txt
Public Advisory (Storm #4)	/storm 4/advisory.txt
Public Advisory (Storm #5)	/storm 5/advisory.txt
Tropical Depression Forecast (Storm #1)	/storm 1/technical advisory.txt
Tropical Depression Forecast (Storm #2)	/storm 2/technical advisory.txt
Tropical Depression Forecast (Storm #3)	/storm 3/technical advisory.txt
Tropical Depression Forecast (Storm #4)	/storm 4/technical advisory.txt
Tropical Depression Forecast (Storm #5)	/storm 5/technical advisory.txt
RECON Plan	TBD

*Recommended products for mariners

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

CENTRAL PACIFIC HURRICANE PRODUCTS

These files may be found in directory:

ftp://tgftp.nws.noaa.gov/data/hurricane_products/central_pacific

PRODUCT DESCRIPTION	FILE NAME
Tropical WX Outlook	/weather/outlook.txt
Tropical WX Discussion	(discontinued)
Tropical WX Summary	/weather/summary.txt
Tropical WX Disturbance Stmt	/weather/advisory.txt
Tropical Cyclone Update (Storm #1)	/storm 1/update.txt

Tropical Cyclone Update (Storm #2)	/storm 2/update.txt
Tropical Cyclone Update (Storm #3)	/storm 3/update.txt
Tropical Cyclone Update (Storm #4)	/storm 4/update.txt
Tropical Cyclone Update (Storm #5)	/storm 5/update.txt
Tropical Cyclone Discussion (Storm #1)	/storm 1/discussion.txt
Tropical Cyclone Discussion (Storm #2)	/storm 2/discussion.txt
Tropical Cyclone Discussion (Storm #3)	/storm 3/discussion.txt
Tropical Cyclone Discussion (Storm #4)	/storm 4/discussion.txt
Tropical Cyclone Discussion (Storm #5)	/storm 5/discussion.txt
Public Advisory (Storm #1)	/storm 1/advisory.txt
Public Advisory (Storm #2)	/storm 2/advisory.txt
Public Advisory (Storm #3)	/storm 3/advisory.txt
Public Advisory (Storm #4)	/storm 4/advisory.txt
Public Advisory (Storm #5)	/storm 5/advisory.txt
Tropical Depression Forecast (Storm #1)	/storm 1/technical advisory.txt
Tropical Depression Forecast (Storm #2)	/storm 2/technical advisory.txt
Tropical Depression Forecast (Storm #3)	/storm 3/technical advisory.txt
Tropical Depression Forecast (Storm #4)	/storm 4/technical advisory.txt
Tropical Depression Forecast (Storm #5)	/storm 5/technical advisory.txt
RECON PLAN	TBD

*Recommended products for mariners

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 (NOAA)

These files may be found in directories:
<ftp://tgftp.nws.noaa.gov/data/raw/wt>
<https://tgftp.nws.noaa.gov/data/raw/wt>

Example:

-In plain text format-

Send an e-mail to: NWS.FTPMail.OPS@noaa.gov
 Subject Line: Put anything you like
 Body: open
 cd data
 cd raw
 cd wt
 get wtpq31.pgum.tcp.pq1.txt
 quit

PRODUCT DESCRIPTION

FILE NAME

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

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

WESTERN PACIFIC HURRICANE PRODUCTS (NAVY)

These files may be found in directories:

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

https://tgftp.nws.noaa.gov/data/raw/wt

Example:

-In plain text format-

Send an e-mail to: NWS.FTPMail.OPS@noaa.gov

Subject Line: Put anything you like

Body: open

cd data

cd raw

cd wt

get wtpn21.pgtw..txt

quit

PRODUCT DESCRIPTION

FILE NAME

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

Document URL: <https://tgftp.nws.noaa.gov/fax/marine2.txt>

<ftp://tgftp.nws.noaa.gov/fax/marine2.txt>

NATIONAL WEATHER SERVICE MARINE TEXT PRODUCTS

COASTAL and NEARSHORE MARINE FORECASTS

**** IMPORTANT NOTICES ****

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If you restrict incoming e-mail as a means of preventing spam, you must configure your e-mail system to allow mail from NWS.FTPMail.OPS@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.

-In plain text format-

Send an e-mail to: NWS.FTPMail.OPS@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!

-In plain text format-

Send an e-mail to: NWS.FTPMail.OPS@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

Clicking on the links to the Coastal and Near Shore Marine products on the next several pages opens up an email to nws.ftpmail.OPS@noaa.gov. To send an email requesting the product, put the following ftp commands in the email (plain text only).

```
open
cd data
cd raw
cd fz
get FILE NAME
quit
```

For example, to request the coastal forecast from Caribou, ME, the ftp commands within the email are:

```
open
cd data
cd raw
cd fz
get fzus51.kcar.cwf.car.txt
quit
```

These files may be found in directories:
<ftp://tgftp.nws.noaa.gov/data/raw/fz>
<https://tgftp.nws.noaa.gov/data/raw/fz>

PRODUCT DESCRIPTION

FILE NAME

Caribou, ME	fzus51.kcar.cwf.car.txt
Gray, ME	fzus51.kgyx.cwf.gyx.txt
Taunton, MA	fzus51.kbox.cwf.box.txt
New York, NY	fzus51.kokx.cwf.okx.txt
Philadelphia, PA	fzus51.kphi.cwf.phi.txt
Washington, DC	fzus51.klwx.cwf.lwx.txt
Wakefield, VA	fzus51.kakq.cwf.akq.txt
Newport/Morehead City, NC	fzus52.kmhx.cwf.mhx.txt
Wilmington, NC	fzus52.kilm.cwf.ilm.txt
Charleston, SC	fzus52.kchs.cwf.chs.txt
Jacksonville, FL	fzus52.kjax.cwf.jax.txt
Melbourne, FL	fzus52.kmlb.cwf.mlb.txt
Miami, FL	fzus52.kmfl.cwf.mfl.txt
Key West, FL	fzus52.kkey.cwf.key.txt
San Juan, PR	fzca52.tjsj.cwf.sju.txt
San Juan, PR (Spanish)	fzca52.tjsj.cwf.spn.txt
Tampa, FL	fzus52.ktbw.cwf.tbw.txt
Tallahassee, FL	fzus52.ktae.cwf.tae.txt
Mobile, AL	fzus54.kmob.cwf.mob.txt
New Orleans, LA	fzus54.klix.cwf.lix.txt
Lake Charles, LA	fzus54.klch.cwf.lch.txt
Houston/Galveston, TX	fzus54.khgx.cwf.hgx.txt
Corpus Christi, TX	fzus54.kcrp.cwf.crp.txt
Brownsville, TX	fzus54.kbro.cwf.bro.txt
Seattle, WA	fzus56.ksew.cwf.sew.txt
Portland, OR	fzus56.kpqr.cwf.pqr.txt
Medford, OR	fzus56.kmfr.cwf.mfr.txt
Eureka, CA	fzus56.keka.cwf.eka.txt
San Francisco, CA	fzus56.kmtr.cwf.mtr.txt
Los Angeles, CA	fzus56.klox.cwf.lox.txt
San Diego, CA	fzus56.ksgx.cwf.sgx.txt
Hawaii	fzhw50.phfo.cwf.hfo.txt
Hawaii (Generalized)	fzhw50.phfo.cwf.hfo.txt
Marianas (Guam)	fzmy50.pgum.cwf.my.txt
East Micronesia	fzpq51.pgum.cwf.pq1.txt
West Micronesia	fzpq52.pgum.cwf.pq2.txt
Samoa	fzpz50.nstu.cwf.ppg.txt
Buffalo, NY	fzus51.kbuf.nsh.buf.txt
Cleveland, OH	fzus51.kcle.nsh.cle.txt
Detroit/Pontiac, MI	fzus53.kdtx.nsh.dtx.txt
Gaylord, MI	fzus53.kapx.nsh.apx.txt
Grand Rapids, MI	fzus53.kgrr.nsh.grr.txt
Northern Indiana, IN	fzus53.kiwx.nsh.ixw.txt
Chicago, IL	fzus53.klot.nsh.lot.txt
Milwaukee/Sullivan, WI	fzus53.kmkx.nsh.mkx.txt
Green Bay, WI	fzus53.kgrb.nsh.grb.txt
Marquette, MI	fzus53.kmqt.nsh.mqt.txt
Duluth, MN	fzus53.kdlh.nsh.dlh.txt
AK, SE Inner Coastal Waters	fzak51.pajk.cwf.ajk.txt
AK, SE Outside Coastal Waters	fzak52.pajk.cwf.aeg.txt
AK, Yakutat Bay	fzak57.paya.cwf.yak.txt
AK, North Gulf Coast and Kodiak	fzak51.pafc.cwf.aer.txt
AK, Valdez Arm and Narrows	fzak58.pavw.cwf.vws.txt
AK, Chiniak and Marmot Bays	fzak58.padq.cwf.adq.txt
Southwest AK and the Aleutians	fzak52.pafc.cwf.alu.txt
Western AK	fzak52.pafg.cwf.wcz.txt
Arctic Coast	fzak51.pafg.cwf.nsb.txt
Sea Ice Advisory West & Arctic AK	fzak80.pafc.ice.afc.txt

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 (<https://tgftp.nws.noaa.gov/fax/robots.txt>) may be retrieved via e-mail as follows:

-In plain text format-

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

>>>>FTPMAIL<<<<

**** IMPORTANT NOTICES ****

Effective September 07, 2016, the address of the FTPMAIL service changed from NWS.FTPMail.OPS@noaa.gov to NWS.FTPMail.OPS@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 NWS.FTPMail.OPS@noaa.gov

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

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

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

-In plain text format-

Send an e-mail to: NWS.FTPMail.OPS@noaa.gov
Subject line: Put anything you like
Body: help

>>>>NOAA/NWS Products Not Available via FTPMAIL<<<<

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.

(1) To retrieve Wave Watch III
(http://polar.ncep.noaa.gov/waves/product_table.shtml?-multi_1-)
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/WEB_P/www.latest_run/plots/xxxx.yyyy.zzzz.png
e.g. 24hr Wind Speed and Direction Forecast for NE Atlantic =
http://polar.ncep.noaa.gov/waves/WEB_P/multi_1.latest_run/plots/NE_atlantic.u10.f024h.png

where www =

"multi_1"	GFS Model
"multi_2"	GFS Hurricane Model
"glw"	Great Lakes NAM Model
"glwn"	Great Lakes NDFD Model

where xxxx =

"atlantic"	Atlantic Ocean
"pacific"	Pacific Ocean
"indian_o"	Indian Ocean
"NE_atlantic"	NE Atlantic
"NW_atlantic"	NW Atlantic
"US_eastcoast"	US East Coast
"NE_pacific"	NE Pacific
"alaska"	Alaskan Waters
"aus_ind_phi"	Australia-Indonesia
"gmex"	Gulf of Mexico
"US_keywest"	Key West
"US_puertorico"	Puerto Rico
"US_wc_zm1"	US West Coast Zoom 1
"US_wc_zm2"	US West Coast Zoom 2
"hawaii"	Hawaii
"grl"	Great Lakes Region
"erie"	Lake Erie
"huron"	Lake Huron
"michigan"	Lake Michigan
"ontario"	Lake Ontario
"superior"	Lake Superior

where "yyyy" =

"hs" Significant Wave Height
"hs_ws" Wind Sea Wave Height
"sw1" Primary Swell Wave Height
"sw2" Secondary Swell Wave Height
"u10" Wind Speed and Direction
"tp" Peak Wave Period
"tp_ws" Wind Sea Period
"tp_ws1" Primary Swell Period
"tp_ws2" Secondary Swell Period

where "zzzz" = "h006h." or "h000" (multiples of 3 hours) for hindcasts
where "zzzz" = "f006h" to "f180" for forecasts

**** Important Note****

The Atlantic RTOFS model data immediately below is under an on-going operational upgrade. Use the Global RTOFS model as an alternative, (documented further below).

(2) And similarly, to retrieve sea surface temperature and surface current forecasts from NOAA's for Real-Time Ocean Forecast System-Atlantic (<http://polar.ncep.noaa.gov/ofs/>)

URLs =
http://polar.ncep.noaa.gov/ofs/aofs_images/large/aofs_zzzz_yyyy_xxxx.png
e.g.
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" "f120" or "144"

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

**** Important Note****

The Atlantic RTOFS model data immediately above is under an on-going operational upgrade. Use the Global RTOFS model immediately below as an alternative, see
<http://polar.ncep.noaa.gov/global/nc/>

(3) To retrieve sea surface temperature and surface current forecasts from NOAA's for Global Real-Time Ocean Forecast System (<http://polar.ncep.noaa.gov/global/nc/>)

URLs =
http://polar.ncep.noaa.gov/global/nc/images/large/rtofs_zzzz_yyyy_xxxx_000.png
e.g.
http://polar.ncep.noaa.gov/global/nc/images/large/rtofs_natl_curr_f120_000.png

where "zzzz" =
"global" Global
"arctic" Arctic
"eqpac" Equatorial Pacific
"eqatl" Equatorial Atlantic
"indian" Indian Ocean
"med" Mediterranean Sea
"natl" North Atlantic
"npac" North Pacific
"satl" North Atlantic
"spac" North Pacific
"southern" Southern Ocean
"agulhas" Agulhas Current
"gulfstream" Gulf Stream
"kuroshio" Kuroshio Current
"northbrazil" Brazil Current
"somalia" Somalia Current
"alaska" Alaska
"gulfmex" Gulf of Mexico
"australia" Australia and New Zealand
"indonesia" Indonesia and Philippines
"persiangulf" Somalia and Persian Gulf
"westconus" West CONUS

where "yyyy" =
"temperature" Sea Surface Temperature (Degrees C)
"ssh" Ocean Surface Height
"mixed_layer_thickness" Mixed Layer Thickness
"salinity" Salinity at Surface
"curr" Surface Current (magnitude m/sec)
"ice_thickness" Ice Thickness
"ice_coverage" Ice Coverage

where "xxxx" =
"f024", "f048", "f072", "f096" "f120" or f144"

>>>>National Hurricane Center Listserver<<<<
This service is no longer operational

>>>>GovDelivery Weather Updates (Listserver)<<<<
This service is no longer operational

>>>>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: <https://tgftp.nws.noaa.gov/fax/uiuclist.txt>
See also: <https://lists.illinois.edu/lists/info/wx-atlan>
and <https://lists.illinois.edu/lists/info/wx-tropl>

-In plain text format-

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

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

>>>>>Global Marine Networks (GMN)<<<<<

Global Marine Networks (GMN) offers 7 day wind forecasts of the world as a free public service via its GRIB Mail Robot. See:
http://www.globalmarinenet.com/grib_downloads.php

>>>>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
(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
Subject line: Leave blank
Body: Leave blank

>>>>NAVIMAIL<<<<

M t o-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>

-In plain text format-

Send an e-mail to: NWS.FTPMail.OPS@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.

>>>>U.S. Coast Guard Ice Patrol Chart and Text<<<<
To receive U.S. Coast Guard Ice Patrol products via email, sign up for Iceberg Chart list server at https://radioaid.rdc.uscg.gov/mailman/listinfo/iceberg_chart and the Iceberg Text Bulletin list server at https://radioaid.rdc.uscg.gov/mailman/listinfo/iceberg_bulletin. You will be emailed the products daily as soon as they are released. (The iceberg chart is also available via FTPMAIL above)

>>>>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/>

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

Appendix C
USEFUL MARINE WEATHER PUBLICATIONS

Marine Service Charts (MSC) - Free

The NWS no longer provides Marine Service Charts. Updated information formerly included in MSCs can most often be found on the [Marine Forecasts](#) webpage or [NOAA Weather Radio](#) webpages or from your [Local Weather Forecast Office](#).

OTHER PUBLICATIONS OF VALUE TO THE MARINER

See: <https://www.weather.gov/marine/pub>

Appendix D

Points of Contact

- [NWS Marine Program Contacts](#)
- [Port Meteorological Officers in the US](#)
- [Worldwide Port Meteorological Officers](#)
- [Voluntary Observations from Ships \(VOS\) Program](#)
- [NOAA SEAS](#)
- [METAREA Coordinators](#)

Appendix E

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.