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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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](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
AFRICA
## CAPE NAVAL, SOUTH AFRICA

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<td>1800</td>
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**MAP AREAS:**
- ASXX 1:20,000 Lambert 00S20W 00S70E 60S50W 60S90E
- FUXX 1:20,000 Mercator 05S15W 05S60E 60S15W 60S60E
- FSXX 1:20,000 Mercator 05S15W 05S60E 60S15W 60S60E
- AIAA 30E to 30W Antarctic coast to edge of ice pack except NIC West

(INFORMATION DATED 2009) [http://old.weathersa.co.za/Marine/FrequencyShipFCBroadcast.jsp](http://old.weathersa.co.za/Marine/FrequencyShipFCBroadcast.jsp)
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  C'
0020/-----  96HR SURFACE PRESSURE, PRECIP PROGS  120/576  1200  C
0040/-----  120HR SURFACE PRESSURE, PRECIP PROGS  120/576  1200  C
-----/1220  24 HR 500hPa TEMPERATURE AND 700hPa DEWPOINT
            DEPRESSION PROG
            24HR 850hPa TEMPERATURE WIND AND 700hPa VERTICAL
            P-VELOCITY PROG
-----/1251  36 HR 500hPa TEMPERATURE AND 700hPa DEWPOINT
            DEPRESSION PROG
            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'
U130/1330  RETRANSMISSION OF 1019/0730  120/576  00/00
0150/1350  TROPICAL CYCLONE FORECAST (1)  120/576  00/12  C'
U210/-----  SEA SURFACE CURRENT, WATER TEMPERATURE AT 100M DEPTH (2)  120/576
0229/-----  RADIO PREDICTION (3)  120/576
0240/1440  SURFACE ANALYSIS  120/576  00/12  C'
0250/-----  SEA SURFACE WATER TEMPERATURE (2)  120/576  00/12  C'
-----/1420  RADIO PREDICTION (3)  120/576  00/12  C'
0240/1440  SURFACE ANALYSIS  120/576  00/12  C'
U300/-----  SEA SURFACE WATER TEMPERATURE (2)  120/576  00/12  C'
0320/1520  THE FIRST RETRANSMISSION OF 0240/1440  120/576  00/12
U340/-----  BROADCAST SCHEDULE and MANUAL AMENDMENTS  120/576  00/12
0400/1540  TROPICAL CYCLONE FORECAST (6)  120/576  00/12
-----/1600  SEA SURFACE WATER TEMPERATURE (2)  120/576  00/12
U420/1620  OCEAN WAVE ANALYSIS  120/576  00/12  C''
0440/-----  OCEAN WAVE ANALYSIS  120/576  0000  X
0459/1640  500 hPa HEIGHT, TEMPERATURE  120/576  00/12  C
U518/1700  850 hPa HEIGHT, TEMPERATURE, DEW POINT DEPRESSION  120/576  00/12  C
-----/1/19  COASTAL WAVE ANALYSIS  120/576  1200  X
0537/1739  24HR 500 hPa HEIGHT, VORTICITY PROGNOSIS  120/576  00/12
U548/-----  24 HR SURFACE PRESSURE, PRECIPITATION PROGNOSIS  120/576  00/12  C'
U610/1750  RETRANSMISSION OF 0150/1350  120/576  00/00
0630/-----  48/72 HR SURFACE PRESSURE, PRECIPITATION PROGNOSIS  120/576  00/00
-----/1810  36HR 500 hPa HEIGHT, VORTICITY PROGNOSIS  120/576  1200
-----/1821  24 HR 500 hPa TEMPERATURE AND 700 hPa DEWPOINT
            DEPRESSION PROG
            24HR 850 hPa TEMPERATURE WIND AND 700 hPa VERTICAL
            P-VELOCITY PROG
-----/1832  36 HR 500 hPa TEMPERATURE AND 700 hPa DEWPOINT
            DEPRESSION PROG
            36HR 850 hPa TEMPERATURE WIND AND 700 hPa VERTICAL
            P-VELOCITY PROG
-----/1850  24HR WAVE PROG (NORTH PACIFIC)  120/576  1200  C''
0651/-----  24HR WAVE PROG (NORTH PACIFIC)  120/576  1200  C''
U710/1910  METEOROLOGICAL SATELLITE PICTURE (MSAT)  120/576  06/18  C'
U730/-----  24HR COASTAL WAVE PROG  120/576  0600  X
-----/1930  24HR SURFACE PRESSURE, WIND, FOG, ICING, SEA ICE PROG  120/576  06/18  C'
U750/1950  TROPICAL CYCLONE FORECAST (1)  120/576  06/18  C'
-----/2010  24HR COASTAL WAVE PROG (1)  120/576  1200  X
0809/-----  36HR SURFACE PRESSURE, PRECIPITATION PROGNOSIS  120/576  0000
U820/-----  48HR SURFACE PRESSURE, WIND, FOG, ICING, SEA ICE PROG  120/576  0000  C'
U840/2040  SURFACE ANALYSIS  120/576  06/18  C'
-----/2110  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  24HR WAVE PROG (NORTH PACIFIC)  120/576  1800  C'
1000/-----  RETRANSMISSION OF 0820  120/576  0000

II-1
TOKYO, JAPAN

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

NOTES:  (1) IN CASE OF TROPICAL CYCLONE  (3) ON THE 20TH AND 21ST.
(2) EVERY TUESDAY AND FRIDAY  (4) EVERY TUESDAY AND FRIDAY (SEASONAL) RETRANSMISSION: AT 0130 ON THE NEXT DAY.
(3) 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


PEVEK, CHUKOTKA PENINSULA

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

TIME CONTENTS OF TRANSMISSION RPM/IOC VALID MAP AREA
0530-0730 ICE 90/576
1130-1330 ICE 90/576
1430-1630 ICE 90/576

(INFORMATION DATED 11/97)
All marine radiofacsimile services from station BMF were terminated in October 2013.

OPERATIONS DISCONTINUED OCTOBER 2013
(INFORMATION DATED January 31, 2019)
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

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

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<tr>
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<td>01/09</td>
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<tr>
<td>0140/------</td>
<td>SURFACE ANALYSIS</td>
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<td>0340/0800</td>
<td>72 HR SURFACE PROG</td>
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**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)*
(INFORMATION DATED March 1, 1999 provided by Kyodo News April 2001)
NORTHWOOD, UNITED KINGDOM (PERSIAN GULF)

**Station GYA is not currently active. The information below may not be accurate.**

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<td>03/15</td>
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<tr>
<td>0506/1706</td>
<td>SURFACE ANALYSIS</td>
<td>120/576</td>
<td>00/12</td>
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<tr>
<td>0518/1718</td>
<td>SURFACE PROG I+24</td>
<td>120/576</td>
<td>00/12</td>
<td></td>
</tr>
<tr>
<td>0530/1730</td>
<td>SURFACE PROG I+48</td>
<td>120/576</td>
<td>00/12</td>
<td></td>
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<tr>
<td>0542/1742</td>
<td>GULF TAFS</td>
<td>120/576</td>
<td>06/18</td>
<td></td>
</tr>
<tr>
<td>0606/1818</td>
<td>SURFACE ANALYSIS</td>
<td>120/576</td>
<td>00/12</td>
<td></td>
</tr>
<tr>
<td>0618/1830</td>
<td>SURFACE PROG T+24</td>
<td>120/576</td>
<td>00/12</td>
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<tr>
<td>0654/1854</td>
<td>GULF TAFS</td>
<td>120/576</td>
<td>06/18</td>
<td></td>
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<tr>
<td>0718/1906</td>
<td>SHAPKE TAFS</td>
<td>120/576</td>
<td>00/12</td>
<td></td>
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<tr>
<td>0742/1918</td>
<td>SIGNIFICANT WINDS PROG T+24</td>
<td>120/576</td>
<td>00/12</td>
<td></td>
</tr>
<tr>
<td>0730/1930</td>
<td>SURFACE PROG I+48</td>
<td>120/576</td>
<td>00/12</td>
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<tr>
<td>0742/1942</td>
<td>SURFACE PROG I+72</td>
<td>120/576</td>
<td>00/12</td>
<td></td>
</tr>
<tr>
<td>0754/1954</td>
<td>SURFACE PROG T+96</td>
<td>120/576</td>
<td>00/12</td>
<td></td>
</tr>
<tr>
<td>0818/2018</td>
<td>THICKNESS/GEOPOTENTIAL HEIGHT ANALYSIS</td>
<td>120/576</td>
<td>00/12</td>
<td></td>
</tr>
<tr>
<td>0930/2030</td>
<td>SURFACE SIGNIFINT WINDS T+48</td>
<td>120/576</td>
<td>00/12</td>
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</tr>
<tr>
<td>0842/2042</td>
<td>SIGNIFICANT WINDS PROG T+48</td>
<td>120/576</td>
<td>00/12</td>
<td></td>
</tr>
<tr>
<td>0854/2054</td>
<td>SURFACE SIGNIFINT WINDS I+96</td>
<td>120/576</td>
<td>00/12</td>
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<tr>
<td>0906/------</td>
<td>SURFACE ANALYSIS</td>
<td>120/576</td>
<td>06/00</td>
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<tr>
<td>0921/------</td>
<td>THICKNESS/GEOPOTENTIAL HEIGHT ANALYSIS</td>
<td>120/576</td>
<td>1200</td>
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<tr>
<td>0930/2130</td>
<td>THICKNESS/GEOPOTENTIAL HEIGHT T+24</td>
<td>120/576</td>
<td>00/12</td>
<td></td>
</tr>
<tr>
<td>0942/2142</td>
<td>850 hPA WINDS T+24</td>
<td>120/576</td>
<td>00/12</td>
<td></td>
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<tr>
<td>0954/2154</td>
<td>700 hPA WINDS T+24</td>
<td>120/576</td>
<td>00/12</td>
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<tr>
<td>1006/2206</td>
<td>SEA SURFACE TEMP</td>
<td>120/576</td>
<td>00/12</td>
<td></td>
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<tr>
<td>1018/------</td>
<td>SURFACE PROG I+24</td>
<td>120/576</td>
<td>06/00</td>
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<tr>
<td>1042/2242</td>
<td>/00 hPA WBP I/PP1 N I+24</td>
<td>120/576</td>
<td>06/18</td>
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<tr>
<td>1054/2254</td>
<td>AIR TEMP/DEW POINT +24</td>
<td>120/576</td>
<td>06/18</td>
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<tr>
<td>1130/2330</td>
<td>SEA AND SWELL PROGNOSIS T+24</td>
<td>120/576</td>
<td>06/18</td>
<td></td>
</tr>
</tbody>
</table>

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

(INFORMATION DATED OCT 24 2007) (Reported as being held in abeyance as of late 2010)
SOUTH AMERICA
**RIO DE JANEIRO, BRAZIL**

<table>
<thead>
<tr>
<th>CALL SIGNS</th>
<th>FREQUENCIES</th>
<th>TIMES</th>
<th>EMISSION</th>
<th>POWER</th>
</tr>
</thead>
<tbody>
<tr>
<td>PWZ-33</td>
<td>12665 kHz</td>
<td>ALL BROADCAST TIMES</td>
<td>J3C</td>
<td>1 kW</td>
</tr>
<tr>
<td>PWZ-33</td>
<td>16978 kHz</td>
<td>ALL BROADCAST TIMES</td>
<td>J3C</td>
<td>1 kW</td>
</tr>
</tbody>
</table>

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

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


**VALPARAISO PLAYA ANCHA, CHILE (CBV)**

**PUNTA ARENAS MAGALLANES, CHILE (CBM)**

<table>
<thead>
<tr>
<th>CALL SIGNS</th>
<th>FREQUENCIES</th>
<th>TIMES</th>
<th>EMISSION</th>
<th>POWER</th>
</tr>
</thead>
<tbody>
<tr>
<td>CBV</td>
<td>4228.0 kHz</td>
<td>ALL BROADCAST TIMES</td>
<td>J3C</td>
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<tr>
<td>CBV</td>
<td>8677.0 kHz</td>
<td>ALL BROADCAST TIMES</td>
<td>J3C</td>
<td>1 kW</td>
</tr>
<tr>
<td>CBV</td>
<td>17146.4 kHz</td>
<td>ALL BROADCAST TIMES</td>
<td>J3C</td>
<td>1 kW</td>
</tr>
<tr>
<td>CBM</td>
<td>4322.0 kHz</td>
<td>ALL BROADCAST TIMES</td>
<td>J3C</td>
<td>1 kW</td>
</tr>
<tr>
<td>CBM</td>
<td>8696.0 kHz</td>
<td>ALL BROADCAST TIMES</td>
<td>J3C</td>
<td>1 kW</td>
</tr>
</tbody>
</table>

**TIME** | **CONTENTS OF TRANSMISSION (CBV)** | **RPM/IOC** | **VALID TIME** | **MAP AREA**
---|----------------------------------|-------------|------------|----------|
1100 | TEST CHART CBV CBM SCHEDULES     | 120/576     | 0600       | A        |
1115 | SURFACE CHART                   | 120/576     | 0900       | A        |
1130 | SATELLITE IMAGE                 | 120/576     | 1500       | A        |
1630 | 24 HR SURFACE FORECAST          | 120/576     | 1200       | A        |
1645 | SATELLITE IMAGE                 | 120/576     | 0900       | A        |
1915 | SURFACE CHART                   | 120/576     | 1200       | A        |
1930 | SATELLITE IMAGE                 | 120/576     | 1800       | A        |
2200 | 36 HR SURFACE FORECAST          | 120/576     | 0000       | 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     | 0000       | A        |
1600 | 12HR SURFACE FORECAST           | 120/576     | 0000       | A        |
1615 | SATELLITE IMAGE                 | 120/576     | 1200       | A        |
1730 | SURFACE CHART                   | 120/576     | 1200       | A        |
1745 | SATELLITE IMAGE                 | 120/576     | 1800       | B        |
2005 | SIGNIFICANT WAVE MAP FORECAST   | 120/576     | 1200       | A        |
2020 | SATELLITE IMAGE                 | 120/576     | 1800       | A        |
2240 | 36 HR SURFACE FORECAST          | 120/576     | 1200       | A        |
2310 | WINDS BARB ISOTACHS FORECAST    | 120/576     | 1200       | A        |
0350 | 48 HR SURFACE FORECAST          | 120/576     | 1200       | A        |
0400 | SATELLITE IMAGE                 | 120/576     | 2400       | A        |

MAP AREA:  
A: 10S-120W, 10S-50W, 80S-130W, 80S-30W  
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.
NORTH AMERICA
<table>
<thead>
<tr>
<th>TIME</th>
<th>CONTENTS OF TRANSMISSION</th>
<th>RPM/IOC TIME</th>
<th>VALID AREA</th>
<th>MAP AREA</th>
</tr>
</thead>
<tbody>
<tr>
<td>0001/---</td>
<td>Ice Chart #1 (see note): Latest)</td>
<td>120/576</td>
<td>LATEST</td>
<td>G</td>
</tr>
<tr>
<td>0101/---</td>
<td>3-DAY PROG</td>
<td>120/576</td>
<td>1200</td>
<td>G</td>
</tr>
<tr>
<td>0122/---</td>
<td>SATELLITE PHOTO INFRARED</td>
<td>120/576</td>
<td>0000</td>
<td>G</td>
</tr>
<tr>
<td>0130/---</td>
<td>4-DAY PROG</td>
<td>120/576</td>
<td>1200</td>
<td>G</td>
</tr>
<tr>
<td>0201/1401</td>
<td>12/00Z SIGNIFICANT WEATHER DEPICTION</td>
<td>120/576</td>
<td>12/00</td>
<td>A</td>
</tr>
<tr>
<td>0301/1501</td>
<td>500 mb ANALYSIS</td>
<td>120/576</td>
<td>00/12</td>
<td>B</td>
</tr>
<tr>
<td>0322/1522</td>
<td>SURFACE ANALYSIS</td>
<td>120/576</td>
<td>00/12</td>
<td>F</td>
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<tr>
<td>0401/1622</td>
<td>850 mb ANALYSIS</td>
<td>120/576</td>
<td>1200</td>
<td>B</td>
</tr>
<tr>
<td>0422/1701</td>
<td>36HR 500mb FORECAST</td>
<td>120/576</td>
<td>12/00</td>
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</tr>
<tr>
<td>0501/---</td>
<td>24HR SURFACE PROG</td>
<td>120/576</td>
<td>00/12</td>
<td>A</td>
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<tr>
<td>0601/1801</td>
<td>850 mb FORECAST WINDS</td>
<td>120/576</td>
<td>18/00</td>
<td>C</td>
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<tr>
<td>0622/1822</td>
<td>850 mb FORECAST WINDS</td>
<td>120/576</td>
<td>06/12</td>
<td>C</td>
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<tr>
<td>0701/1901</td>
<td>18/06Z SIGNIFICANT WEATHER DEPICTION</td>
<td>120/576</td>
<td>18/06</td>
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<tr>
<td>0801/2001</td>
<td>24/36HR SIGNIFICANT WAVE PROGNOSIS</td>
<td>120/576</td>
<td>08&amp;12/12&amp;0</td>
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<tr>
<td>0901/2101</td>
<td>SURFACE ANALYSIS</td>
<td>120/576</td>
<td>06/18</td>
<td>F</td>
</tr>
<tr>
<td>1001/---</td>
<td>OFA: NOVA SCOTIA - MON NEWFOUNDLAND - TUE/FRI</td>
<td>120/576</td>
<td>LATEST</td>
<td>E/D</td>
</tr>
<tr>
<td>1022/---</td>
<td>SATURATE PHOTO INFRARED</td>
<td>120/576</td>
<td>0900</td>
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<tr>
<td>1101/---</td>
<td>CFH BROADCAST SCHEDULE</td>
<td>120/576</td>
<td>LATEST</td>
<td></td>
</tr>
<tr>
<td>1201/---</td>
<td>GULF OF ST LAWRENCE ICE CHART (SEASONAL)</td>
<td>120/576</td>
<td>LATEST</td>
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</tr>
</tbody>
</table>

**NOTES:**

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

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

**MAP AREAS:**

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

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

IQALUIT, CANADA

CALL SIGN FREQUENCIES TIMES EMISSION POWER
VFF 3253.0 kHz 0600,0700,2100,2200 UTC J3C 5 kW
VFF 7710.0 kHz 0100,0200,1000,1100 UTC J3C 5 kW

TIME CONTENTS OF TRANSMISSION RPM/IOC VALID MAP AREA
0100/1000 Marine Surface Analysis (Arctic) Marine Wind Prognosis (Arctic) (experimental product) Regional Marine Wind Prognosis (on request) 120/576
0200/1100 Ice analysis Hudson Bay south, Hudson Bay north, Hudson Strait, Foxe Basin, Labrador Coast, Davis Strait, Baffin Bay 120/576
0600/2100 Marine Surface Analysis (Arctic) Marine wind prognosis (Arctic) (experimental product) Regional Marine Wind Prognosis (on request) 120/576
0700/2200 Ice Analysis Hudson Bay south, Hudson Bay north, Hudson Strait, Foxe Basin, Labrador Coast, Davis Strait, Baffin Bay 120/576

Operating only from approximately mid-June until late-November


RESOLUTE, CANADA

CALL SIGN FREQUENCIES TIMES EMISSION POWER
VFR 7710.0 kHz 0100,0200,1000,1100 UTC J3C 5 kW
VFR 3253.0 kHz 0600,0700,2100,2200 UTC J3C 5 kW

TIME CONTENTS OF TRANSMISSION RPM/IOC VALID MAP AREA
0100/1000 Marine Surface Analysis (Arctic) Marine wind prognosis (Arctic) (experimental product) Regional Marine Wind Prognosis (on request) 120/576
0200/1100 Ice analysis Baffin Bay, Approaches to Resolute, Resolute-Byam, Eureka Sound, McClure Strait, Parry Channel and Queen Maude. 120/576
0600/2100 Marine Surface Analysis (Arctic) Marine wind prognosis (Arctic) (experimental product) Regional Marine Wind Prognosis (on request) 120/576
0700/2200 Ice analysis Baffin Bay, Approaches to Resolute, Resolute-Byam, Eureka Sound, McClure Strait, Parry Channel and Queen Maude. 120/576

Operating only from approximately mid-June until late-November

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 |  


INUVIK, CANADA

**CALL SIGN** | **FREQUENCIES** | **TIMES** | **EMISSION** | **POWER**
---|---|---|---|---
VFA | 4292.0 kHz | 0600&2100 UTC | J3C | 1 kW  
VFA | 8456.0 kHz | 0200&1630 UTC | J3C | 1 kW  

| **TIME** | **CONTENTS OF TRANSMISSION** | **RPM/IOC** | **VALID TIME** | **MAP AREA** |
---|---|---|---|---
0200/0600 | Marine Wind Prognosis | 120/576 | 1200 |  

(Availability of charts may vary depending on shipping
Ice Analysis (mid July to October 15)
Amundsen Gulf, Queen Maud and McClure Strait.
Ice Analysis Beaufort Sea/Alaskan Coast

1630/2100 | Marine Surface Analysis | 120/576 | 1200 |  

(Availability of charts may vary depending on shipping
Ice Analysis (mid July to October 15)
Amundsen Gulf, Queen Maud and McClure Strait.
Ice Analysis Beaufort Sea/Alaskan Coast

Note: Also available on request

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 | 6 | 1
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 - 160E
3. 40N - 60N, 125W - 170E
4. 05N - 60N, 110W - 160W
5. ICE COVERED AK WATERS
6. 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

Send comments regarding the quality of this broadcast to:
Commanding Officer
USCG COMMCOM
4720 Douglas A. Munro Road
Chesapeake, VA 23322-2598
800-742-8519 /FAX: 757-421-6240
COM-DG-M-CWOWatchstanders@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  NWS Homepage
https://weather.gov/marine  NWS Marine Page
mobile.weather.gov  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 CONTENTS OF TRANSMISSION** | **RPM/IOC** | **VALID** | **MAP**
---|---|---|---
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 72HR WIND/WAVE FORECAST | 120/576 | 1200 4
0235/ | 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
0408/1608 | TEST PATTERN | 120/576 | 
0655/1820 | TEST PATTERN | 120/576 | 
0707/ | 1933Z REBROADCAST (96HR 500MB) | 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 |
* 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: Please send comments regarding the quality of this broadcast to:

NATIONAL WEATHER SERVICE/NOAA COMMANDING OFFICER  
MARINE FORECAST BRANCH W/ NP41 USCG COMMCOM  
5830 UNIVERSITY RESEARCH CT 4720 Douglas A. Munro Road  
COLLEGE PARK, MD 20740 Chesapeake, VA 23322-2598  
PHONE: (301) 683-1497 800-742-8519/Fax: 757-421-6240  
FAX: (301) 683-1545 COM-DG-M-CWOWatchstanders@uscg.mil  
EMAIL: ncep.opc.webteam@noaa.gov

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

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

Links to radiofax charts  
Information on ftpmail

https://weather.gov/marine/ptreyes  
https://weather.gov/marine/faq#3

https://www.weather.gov NWS Homepage  
https://weather.gov/marine NWS Marine Page  
mobile.weather.gov 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

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<tr>
<th>CALL SIGN</th>
<th>FREQUENCIES</th>
<th>TIMES (UTC)</th>
<th>EMISSION</th>
<th>POWER</th>
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* 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:
NATIONAL HURRICANE CENTER
ATTN: CHIEF TAFB
11691 SOUTHWEST 17TH STREET
MIAMI, FL 33165-2149
PHONE: (305) 229-4454
FAX: (305) 553-1264
EMAIL: Chris.Landsea@noaa.gov

Please send comments regarding
the quality of this broadcast to:
COMMANDING OFFICER
USCG COMMCOM
4720 DOUGLAS A. MUNRO RD.
CHESAPEAKE, VA 23322-2598
PHONE: (800) 742-8519/Fax: (757) 421-6240
COM-DG-M-CWOWatchstanders@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 NWS Homepage
https://weather.gov/marine NWS Marine Page
mobile.weather.gov Mobile Page

(Schedule Effective Apr 03, 2012)
**BOSTON, MASSACHUSETTS, U.S.A.**

### CALL SIGN, FREQUENCIES, TIMES, EMISSION, POWER

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### TRANSMIT TIME, CONTENTS OF TRANSMISSION, RPM/IOC, VALID MAP

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<td>SURFACE ANALYSIS (PART 2 NW ATLANTIC)</td>
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<td>06/18 3</td>
</tr>
<tr>
<td>0951/2151</td>
<td>SATELLITE IMAGE</td>
<td>120/576</td>
<td>06/18 6</td>
</tr>
<tr>
<td>1002/2202</td>
<td>(REBROADCAST OF 0925/2125 NE ATLANTIC)</td>
<td>120/576</td>
<td>06/18 2</td>
</tr>
<tr>
<td>1015/2215</td>
<td>(REBROADCAST OF 0938/2138 NW ATLANTIC)</td>
<td>120/576</td>
<td>06/18 3</td>
</tr>
<tr>
<td>1028/2228</td>
<td>CYCLONE DANGER AREA* or HIGH WIND/WAVES</td>
<td>120/576</td>
<td>09/21 7</td>
</tr>
<tr>
<td>1039/2239</td>
<td>REBROADCAST/N American Ice Service Chart</td>
<td>120/576</td>
<td>21/21</td>
</tr>
</tbody>
</table>

**IV-9**
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-99W
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:
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

Please send comments regarding the quality of this broadcast to:
COMMANDING OFFICER USCG COMMCOM
4720 DOUGLAS A. MUNRO RD. CHESAPEAKE, VA 23322-2598
PHONE: (800) 742-8519/Fax: (757) 421-6240
EMAIL: COM-DG-M-CWOWatchstanders@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 NWS Homepage
https://weather.gov/marine NWS Marine Page
mobile.weather.gov Mobile Page

(EFFECTIVE DATE: SEP 19, 2018)
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 MAP
-----/1200 Australian MSLP Prog (H+36) 120/576 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 Temp (Weekly) 120/576 LATEST SWP
-----/1400 Indian Ocean Sea Surface Temp (Weekly) 120/576 LATEST IO
0200/------ Australian MSLP Prog (H+36) 120/576 0000 AUST
-----/1415 Casey Eastern and Western High Seas (H+48) 120/576 0000
0245/1430 Australian MSLP Anal (Manual) 120/576 00/12 AUST
0300/1500 Australian 500 hPa Anal 120/576 00/12 AUST
0315/------ Voice Broadcast Information for VMW (Wiluna) 120/576
-----/1515 Australian MSLP Prog (H+36) 120/576 1200 AUST
0400/------ Australian 500 hPa (H+24) Prog 120/576 0000 AUST
0430/1530 Australian MSLP 4-day forecast, Days 1 and 2 120/576
0445/1545 Australian MSLP 4-day forecast, Days 3 and 4 120/576
-----/1600 Australian 500 hPa (H+24) Prog 120/576 1200 AUST
-----/1630 IPS Recommended Frequencies for VMC (Charleville) 120/576
-----/1700 IPS Recommended Frequencies for VMW (Wiluna) 120/576
0600/1800 Asian (Part A) Gradient Level Wind Anal (Manual) 120/576 00/12 A
0623/1823 Asian (Part B) Gradient Level Wind Anal (Manual) 120/576 00/12 B 0645/------ Asian MSLP Anal (Manual) 120/576 0000 C
0730/1915 Indian Ocean MSLP Anal (Manual) 120/576 00/12 IO
0745/1930 Australian Wind Waves Ht(m) Prog 120/576 00/12 AUST
0800/1945 Australian Swell Waves Ht(m) Prog (H+24) 120/576 00/12 AUST
0830/------ South Pacific Ocean MSLP Anal 120/576 0000 SWP
0845/------ Australian MSLP Anal (Manual) 120/576 0600 AUST
0900/------ Australian MSLP Prog (H+36) (Repeat) 120/576 0000 AUST
0915/------ Australian MSLP 4-day forecast, Days 1 and 2 (Repeat) 120/576
0930/------ Australian MSLP 4-day forecast, Days 3 and 4 (Repeat) 120/576
-----/1000 South Pacific Ocean MSLP Anal (Manual) 120/576 1200 SWP
-----/1015 Casey Eastern and Western High Seas (H+24) 120/576 1200
-----/1030 Australian MSLP Anal (Manual) 120/576 1800 AUST
1015/------ Casey Eastern and Western High Seas (H+24) 120/576 0000
-----/1125 Casey Eastern and Western High Seas (H+36) 120/576 1200
1030/1230 S.H. 500 hPa Prog (H+48) 120/576 00/12 SH
1045/1245 S.H. MSLP Prog (H+48) 120/576 00/12 SH
1100/------ Casey Eastern and Western High Seas (H+36) 120/576 0000
1115/1230 S.H. 500 hPa Anal 120/576 00/12 SH
-----/1215 Casey Eastern and Western High Seas (H+48) 120/576 1200
1130/------ Asian Sea Surface Temp Anal (Weekly) 120/576 LATEST_E
-----/1230 Australian MSLP Prog (H+36) 120/576 0000 AUST
-----/1245 Indian Ocean MSLP Prog (H+48) 120/576 1200 IO
1145/------ VMC/VMW Information Notice 120/576

V-1
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
- **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, 150E - 180 - 90W
- **IOSST:** MERCATOR 20N - 50S, 30E - 150E


### WELLINGTON, NEW ZEALAND

**CALL SIGN** | **FREQUENCIES** | **TIMES** | **EMISSION** | **POWER**
---|---|---|---|---
ZKLF | 3247.4 kHz | 0945-1700 | J3C | 5 kW
 | 5807 kHz | ALL BROADCAST TIMES | J3C | 5 kW
 | 9459 kHz | ALL BROADCAST TIMES | J3C | 5 kW
 | 13550.5 kHz | ALL BROADCAST TIMES | J3C | 5 kW
 | 16340.1 kHz | 2145-0500 | J3C | 5 kW

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

**TIME** | **CONTENTS OF TRANSMISSION** | **RPM/IOC** | **VALID TIME** | **MAP AREA**
---|---|---|---|---
0000/1200 | SOUTHWEST PACIFIC 30HR SURFACE PROG (MSL) | 120/576 | 00/12 | SWP
0100/1300 | SOUTHWEST PACIFIC 48HR SURFACE PROG (MSL) | 120/576 | 00/12 | SWP
0200/1400 | SOUTHWEST PACIFIC 72HR SURFACE PROG (MSL) | 120/576 | 00/12 | SWP
0300/1500 | TASMAN-NEW ZEALAND MSL ANALYSIS | 120/576 | 00/12 | TNZ
0400/1600 | SOUTHWEST PACIFIC MSL ANALYSIS | 120/576 | 00/12 | TNZ
0900/2100 | TASMAN-NEW ZEALAND MSL ANALYSIS | 120/576 | 00/12 | TNZ
1000/2200 | SOUTHWEST PACIFIC MSL ANALYSIS | 120/576 | 00/12 | SWP
1100/2300 | TRANSMISSION SCHEDULE | | | |

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

**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  

**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 - 165E  
H. 40S - 05N, 130W - 165E  
I. 20N - 70N, 115W - 135E  
J. 20N - 70N, 115W - 175W  
K. 18N - 62N, EAST OF 157W  
L. 05N - 55N, EAST OF 180W  
M. 20S - 30N, EAST OF 145W  

**TIME** | **CONTENTS OF TRANSMISSION** | **RPM/IOC** | **VALID TIME** | **MAP AREA**  
--- | --- | --- | --- | ---  
0519/1719 | TEST PATTERN | 120/576 | 03/15 | E  
0535/1735 | CYCLONE DANGER AREA | 120/576 | 00/12 | B  
0555/1755 | STREAMLINE ANALYSIS | 120/576 | 00/12 | C  
0615/1815 | SURFACE ANALYSIS | 120/576 | 00/12 | D  
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  
071/1901 | 24HR SURFACE FORECAST | 120/576 | 00/12 | A  
071/1914 | 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 | A  
0753/1953 | 24HR WIND/WAVE FORECAST | 120/576 | 00/12 | A  
0806/2006 | 24HR WIND/WAVE FORECAST | 120/576 | 00/12 | A  
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 | F  
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 | 120/576 | 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 | 00/12 | LAIES  
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  
1248/0054 | 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 WIND/WAVE FORECAST | 120/576 | 06/18 | 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 |  
1530/0330 | SURFACE ANALYSIS(PART 1 NE PAC) | 120/576 | 12/00 |  
1543/0343 | SURFACE ANALYSIS(PART 2 NW PAC) | 120/576 | 12/00 |  
1556/0356 | TROPICAL SURFACE ANALYSIS | 120/576 | 12/00 | Z  

- 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 - 165E  
- H. 40S - 05N, 130W - 165E  
- I. 20N - 70N, 115W - 135E  
- J. 20N - 70N, 115W - 175W  
- K. 18N - 62N, EAST OF 157W  
- L. 05N - 55N, EAST OF 180W  
- M. 20S - 30N, EAST OF 145W  
- N. Honolulu Forecast Office  
- O. Ocean Prediction Center  
- P. Ocean Prediction Center  
- Q. National Hurricane Center  

V-3
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  NWS Homepage
https://weather.gov/marine  NWS Marine Page
mobile.weather.gov  Mobile Page

(SCHEDULE EFFECTIVE Feb. 11, 2020)
(INFORMATION DATED Feb. 12, 2020)  https://www.weather.gov/media/marine/hfhi.txt
EUROPE
### ATHENS, GREECE

<table>
<thead>
<tr>
<th>CALL SIGN</th>
<th>FREQUENCY</th>
<th>TIMES</th>
</tr>
</thead>
<tbody>
<tr>
<td>SVJ4</td>
<td>4481 kHz</td>
<td></td>
</tr>
<tr>
<td>SVJ4</td>
<td>8105 kHz</td>
<td></td>
</tr>
</tbody>
</table>

**EMISSION** | **POWER**<br>**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) | 120/5/6 | 0600 | A
0921 | WAVE HEIGHT PROG (H+30) | 120/5/6 | 1800 | B
0933 | WAVE HEIGHT PROG (H+36) | 120/5/6 | 0000 | B
0945 | WAVE HEIGHT PROG (H+42) | 120/5/6 | 0600 | B
0957 | WAVE HEIGHT PROG (H+48) | 120/5/6 | 1200 | B
1009 | WAVE HEIGHT PROG (H+30) | 120/5/6 | 1800 | C
1021 | WAVE HEIGHT PROG (H+36) | 120/5/6 | 0000 | C
1033 | WAVE HEIGHT PROG (H+42) | 120/5/6 | 0600 | C
1044 | WAVE HEIGHT PROG (H+48) | 120/5/6 | 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**
<table>
<thead>
<tr>
<th></th>
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<th></th>
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</thead>
<tbody>
<tr>
<td>RBW 41</td>
<td>5336 kHz</td>
<td>ALL BROADCAST TIMES</td>
<td>J3C</td>
<td>10130 kHz</td>
</tr>
<tr>
<td></td>
<td>6445.5 kHz</td>
<td>0600-1900</td>
<td>J3C</td>
<td>7908.8 kHz</td>
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<tr>
<td></td>
<td>1900-0600</td>
<td>J3C</td>
<td>90/576</td>
<td>2000</td>
</tr>
</tbody>
</table>

**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 | A
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 - SOUTH EUROPE, MEDITERRANEAN SEA, BLACK SEA
   - B - MEDITERRANEAN
   - C - AEGEAN
2. Center Frequency is 1.9 kHz higher

(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.
<table>
<thead>
<tr>
<th>CALL SIGNS</th>
<th>FREQUENCIES</th>
<th>TIMES</th>
<th>EMISSION</th>
<th>POWER</th>
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<tbody>
<tr>
<td>DDH3</td>
<td>3855 kHz</td>
<td>ALL BROADCAST TIMES</td>
<td>J3C</td>
<td>10 kW</td>
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<tr>
<td>DDK3</td>
<td>7880 kHz</td>
<td>ALL BROADCAST TIMES</td>
<td>J3C</td>
<td>20 kW</td>
</tr>
<tr>
<td>DDK6</td>
<td>13882.5 kHz</td>
<td>ALL BROADCAST TIMES</td>
<td>J3C</td>
<td>20 kW</td>
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<table>
<thead>
<tr>
<th>TIME</th>
<th>CONTENTS OF TRANSMISSION</th>
<th>RPM/IOC</th>
<th>VALID TIME</th>
<th>MAP AREA</th>
</tr>
</thead>
<tbody>
<tr>
<td>0430/1636</td>
<td>Surface weather chart</td>
<td>120/576</td>
<td>00/12</td>
<td></td>
</tr>
<tr>
<td>0512-------</td>
<td>H + 36 (GME) surface pressure</td>
<td>120/576</td>
<td>0000</td>
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</tr>
<tr>
<td>0525/1800</td>
<td>Surface pressure analysis, arrows showing the movement of pressure systems, significant weather, ice</td>
<td>120/576</td>
<td>00/12</td>
<td></td>
</tr>
<tr>
<td>0638/1821</td>
<td>Information of tropical storms, North Atlantic (during the season)</td>
<td>120/576</td>
<td>03/15</td>
<td></td>
</tr>
<tr>
<td>0651/------</td>
<td>H + 12, H + 24 (GME) 500 hPa H + I, surface P</td>
<td>120/576</td>
<td>0000</td>
<td></td>
</tr>
<tr>
<td>0704/------</td>
<td>H + 12, H + 24 (GME) 850 hPa H + T, 700 hPa U</td>
<td>120/576</td>
<td>0000</td>
<td></td>
</tr>
<tr>
<td>0717/------</td>
<td>Repetition chart 0512 UTC</td>
<td>120/576</td>
<td>1800</td>
<td></td>
</tr>
<tr>
<td>0730/1847</td>
<td>H+48 (GME) surface pressure</td>
<td>120/576</td>
<td>00/12</td>
<td></td>
</tr>
<tr>
<td>0743/------</td>
<td>H+60 (GME) surface pressure</td>
<td>120/576</td>
<td>0000</td>
<td></td>
</tr>
<tr>
<td>0804/1900</td>
<td>H+84 (GME) surface pressure</td>
<td>120/576</td>
<td>00/12</td>
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</tr>
<tr>
<td>0811/------</td>
<td>H+108 (GME) surface pressure</td>
<td>120/576</td>
<td>0000</td>
<td></td>
</tr>
<tr>
<td>0830/1913</td>
<td>H+24 (GSM) Sea and swell, wind direction, direction of swell</td>
<td>120/576</td>
<td>00/12</td>
<td></td>
</tr>
<tr>
<td>0842/1926</td>
<td>H+48 (GSM) Sea and swell, wind direction, direction of swell</td>
<td>120/576</td>
<td>00/12</td>
<td></td>
</tr>
<tr>
<td>0854/1939</td>
<td>H+72 (GSM) Sea and swell, wind direction, direction of swell</td>
<td>120/576</td>
<td>00/12</td>
<td></td>
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Notes: Abbreviations have the following meaning: GME Global model (31 layers, 60 km)
   H Contour lines (gpdam) MSL Mean sea level T Isotherms (° C) U Relative humidity (%)

(INFORMATION DATED (032010)
http://www.dwd.de/bvbw/generator/DWDWWW/Content/Schifffahrt/Sendeplan/broadcast_fax_032010,templateId=raw,property=publicationFile.pdf/broadcast_fax_032010.pdf)
## NORTHWOOD, UNITED KINGDOM

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Abbreviations:
- All MAPS 54°N.82°W 26°N.45°W 54°N.51°E 28°N.12°
- GPH: Geopotential Height
- OAT: Outside Air Temperature
- PPTN: Precipitation
- SCEXAS TAFS: South Coast Exercise Areas Terminal Aerodrome Forecasts
- TD: Dewpoint Temperature
- WBPT: Wet Bulb Potential Temperature

(INFORMATION DATED Nov 09, 2011)
APPENDICES
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, follow these simple directions to obtain the FTPMAIL "help" file (11 Kbytes) or go to: https://www.weather.gov/media/marine/ftpmail.txt

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.faqs.org/faqs/internet-services/access-via-email/

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

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

Change Notices
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

International Ice patrol http://www.navcen.uscg.gov/?pageName=IIPHome
National Ice Center https://www.natice.noaa.gov/
WMO Homepage https://public.wmo.int/en
JCOMM GMDSS http://weather.gmdss.org/
USCG Maritime Telecommunications http://www.navcen.uscg.gov/?pageName=maritimeTelecomms
APPENDIX B
FTPMAIL INSTRUCTIONS

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

This PDF file contains links to http pages and FTPMAIL commands. The links may not be compatible with all PDF readers and e-mail systems. The Internet is not part of the National Weather Service's operational data stream and should never be relied upon as a means to obtain the latest forecast and warning data. Become familiar with and use other means such as NOAA Weather Radio to obtain the latest forecasts and warnings. Please read our disclaimer
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/rfxtif.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/forecastsmarine/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 rfaxatl1.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 rfaxhni.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.at1.txt
quit

*IMPORTANT NWS WEBPAGES*

If you have access to the Internet, check out the following NWS webpages.

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

Author: Marine, Tropical, and Tsunami Services Branch, W/AFS26
National Weather Service
Last Modified July 31, 2019

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

  reply-to
  lmjm@server.big.ac.uk
  open
dir
quit

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

  open
cd fax
get PWAG01.TIF
quit

  Connect to default site (tgftp.nws.noaa.gov) and send back the chart file PWAG01.TIF to e-mail address of requestor
>>Valid commands to the ftpmail gateway are:

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

>>Followed by one of:

help  Just send back help

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

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

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

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

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

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

get pathname  Get a file and email it back.

compress  Compress files/dir-listings before emailing back

gzip  Gzip files/dir-listings before emailing back

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

to  Force all files or directory listings to

force btoa  be encoded before sending back.
            There is no default.

mime  Send the message as a Mime Version 1.0 message.

            Text will be sent as text/plain charset=US-ASCII
            Non-text as application/octet-stream.
            If the file is splitup then it will be sent
            as a message/partial.
force mime               As mime but force text files to be sent as application/octet-stream

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

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

mode binary      Change the mode selected for the get command. Defaults to binary.
mode ascii       Command.
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 ****

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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.

********

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 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 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

<table>
<thead>
<tr>
<th>WIND/SEAS CHARTS</th>
<th>FILE NAME</th>
</tr>
</thead>
<tbody>
<tr>
<td>12Z Sea State Analysis, 10E-95W Northern Hemisphere</td>
<td>PJAA99.TIF</td>
</tr>
<tr>
<td>00Z Wind/Wave Analysis, 40W-98W Northern Hemisphere</td>
<td>PWAA88.TIF</td>
</tr>
<tr>
<td>12Z Wind/Wave Analysis, 40W-98W Northern Hemisphere</td>
<td>PWAA89.TIF</td>
</tr>
<tr>
<td>Wind/Wave Analysis, (Most Current)</td>
<td>PWAA90.TIF</td>
</tr>
<tr>
<td>24HR Wind/Wave Chart VT00Z Forecast 40W-98W N. Hemisphere</td>
<td>PWAE98.TIF</td>
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<tr>
<td>24HR Wind/Wave Chart VT12Z Forecast 40W-98W N. Hemisphere</td>
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<td>PWAE10.TIF</td>
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<tr>
<td>48HR Wind/Wave VT00Z Forecast 10E-95W Northern Hemisphere</td>
<td>PJA198.TIF</td>
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<tr>
<td>48HR Wind/Wave VT12Z Forecast 10E-95W Northern Hemisphere</td>
<td>PJA199.TIF</td>
</tr>
<tr>
<td>48HR Wind/Wave Chart Forecast (Most Current)</td>
<td>PJA110.TIF</td>
</tr>
<tr>
<td>48HR Wave Period VT00Z Forecast 10E-95W Northern Hemisphere</td>
<td>PJA188.TIF</td>
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<tr>
<td>48HR Wave Period VT12Z Forecast 10E-95W Northern Hemisphere</td>
<td>PJA189.TIF</td>
</tr>
<tr>
<td>48HR Wave Period Chart Forecast (Most Current)</td>
<td>PJA120.TIF</td>
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<tr>
<td>96HR Wind/Wave Chart VT12Z Forecast 10E-95W N. Hemisphere</td>
<td>PJAM98.TIF</td>
</tr>
<tr>
<td>96HR Wave Period Chart VT12Z Forecast 10E-95W N. Hemisphere</td>
<td>PJAM88.TIF</td>
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<table>
<thead>
<tr>
<th>SURFACE CHARTS</th>
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<tbody>
<tr>
<td>00Z Preliminary Surface Chart Analysis 45W-85W N. Hemisphere</td>
<td>PYAA10.TIF</td>
</tr>
<tr>
<td>06Z Preliminary Surface Chart Analysis 45W-85W N. Hemisphere</td>
<td>PYAB01.TIF</td>
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<tr>
<td>12Z Preliminary Surface Chart Analysis 45W-85W N. Hemisphere</td>
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<td>18Z Preliminary Surface Chart Analysis 45W-85W N. Hemisphere</td>
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<td>Preliminary Surface Chart Analysis (Most Current)</td>
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<tr>
<td>00Z Surface Analysis Chart, Part 1, 10E-45W N. Hemisphere</td>
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<td>00Z Surface Analysis Chart, Part 2, 40W-95W N. Hemisphere</td>
<td>PYAA02.TIF</td>
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<td>06Z Surface Analysis Chart, Part 2, 40W-95W N. Hemisphere</td>
<td>PYAA04.TIF</td>
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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) PLA201.TIF
Radiofax Schedule Part 2 (Boston, MA) PLA202.TIF
Radiofax Schedule (DOS Text Version) hfmarsh.txt
Request for Comments PLA203.TIF
Product Notice Bulletin PLA204.TIF
Test Pattern PZZ94.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
NATIONAL WEATHER SERVICE RADIOFAX PRODUCTS
for the North and Tropical East Pacific

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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

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 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

<table>
<thead>
<tr>
<th>WIND/WAVE CHARTS</th>
<th>FILE NAME</th>
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</thead>
<tbody>
<tr>
<td>00Z Sea State Analysis 20N-70N, 115W-135E</td>
<td>PJBA99.TIF</td>
</tr>
<tr>
<td>@00Z Wind/Wave Analysis 18N-62N, E OF 157W</td>
<td>PWBA88.TIF</td>
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<tr>
<td>06Z Wind/Wave Analysis 18N-62N, E OF 157W</td>
<td>PWBB88.TIF</td>
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<tr>
<td>12Z Wind/Wave Analysis 18N-62N, E OF 157W</td>
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<td>18Z Wind/Wave Analysis 18N-62N, E OF 157W</td>
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<td>Wind/Wave Analysis 18N-62N, E OF 157W (Most Current)</td>
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<td>24HR Wind/Wave Forecast VT00Z 18N-62N, E of 157W</td>
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<td>24HR Wind/Wave Forecast VT12Z 18N-62N, E of 157W</td>
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<td>24HR Wind/Wave Forecast (Most Current)</td>
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<td>48HR Wind/Wave Forecast VT00Z 20N-70N, 115W-135E</td>
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<td>48HR Wind/Wave Forecast VT12Z 20N-70N, 115W-135E</td>
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<td>48HR Wind Wave Forecast (Most Current)</td>
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<td>48HR Wave Period/Swell Direction VT00Z 20N-70N, 115W-135E</td>
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<td>96HR Wave Period/Swell Direction VT12Z 20N-70N, 115W-135E</td>
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<tr>
<th>TROPICAL WIND/WAVE CHARTS</th>
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<tbody>
<tr>
<td>Tropical Sea State Analysis VT00Z 20S-30N, E of 145W</td>
<td>PKFA88.TIF</td>
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<td>Tropical Sea State Analysis VT12Z 20S-30N, E of 145W</td>
<td>PKFA89.TIF</td>
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<tr>
<td>Tropical Sea State Analysis (Most Current)</td>
<td>PKFA10.TIF</td>
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<td>@24HR Wind/Wave Forecast VT00Z 20S-30N, E of 145W</td>
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<td>@24HR Wind/Wave Forecast VT12Z 20S-30N, E of 145W</td>
<td>PWFE03.TIF</td>
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@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

SURFACE CHARTS
<table>
<thead>
<tr>
<th>Time</th>
<th>Surface Analysis NE Pacific (Part 1) 20N-70W, 115W-175W</th>
<th>PYBA01.TIF</th>
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<tr>
<td>00Z</td>
<td>Surface Analysis NW Pacific (Part 2) 20N-70W, 175W-135E</td>
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<tr>
<td>06Z</td>
<td>Surface Analysis NE Pacific (Part 1) 20N-70W, 115W-175W</td>
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**TROPICAL SURFACE CHARTS**

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**UPPER AIR CHARTS**

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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

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@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 VISABLE Satellite Image, East Pacific evpn09.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.

Author: Marine, Tropical, and Tsunami Services Branch, W/AFS26
National Weather Service
Feedback or questions: marine.weather@noaa.gov
Last Modified Dec 12, 2014
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 ****

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 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, ON-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

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SURFACE CHARTS

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

**Tropical Cyclone Charts**

- Tropical Cyclone Danger Area* VT03, 05N-60N, 00W-100W
- Tropical Cyclone Danger Area* VT09, 05N-60N, 00W-100W
- Tropical Cyclone Danger Area* VT15, 05N-60N, 00W-100W
- Tropical Cyclone Danger Area* VT21, 05N-60N, 00W-100W
- Tropical Cyclone Danger Area* (Most Current)

**High Seas Forecasts**

- 04Z High Seas Forecast 7N-31N, 35W-98W, In English
- 10Z High Seas Forecast 7N-31N, 35W-98W, In English
- 16Z High Seas Forecast 7N-31N, 35W-98W, In English
- 22Z High Seas Forecast 7N-31N, 35W-98W, In English
- High Seas Forecast (Most Current)

**Satellite Imagery**

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

**Schedule Information**

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

* 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

Author: Marine, Tropical, and Tsunami Services Branch, W/AFS26
National Weather Service
Feedback or questions: marine.weather@noaa.gov
Last Modified Dec 12, 2014
Document URL: https://tgftp.nws.noaa.gov/fax/rfaxmex.txt
ftp://tgftp.nws.noaa.gov/pub/fax/rfaxmex.txt
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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

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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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-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 PJBI99.TIF
get PYBE10.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 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

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WIND/WAVE CHARTS

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SURFACE CHARTS

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48HR Surface Chart Forecast (Most Current)  PWB110.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  PPBA51.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

xxxxxxxx.xxx = Currently unavailable

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

Author: Marine, Tropical, and Tsunami Services Branch, W/AFS26
National Weather Service
Feedback or questions: marine.weather@noaa.gov
Last Modified Dec 12, 2014
Document URL: https://tgftp.nws.noaa.gov/fax/rfaxak.txt
ftp://tgftp.nws.noaa.gov/fax/rfaxak.txt
*** 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.

*******

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

xxxxxxx (Not yet available from these directories)

.TIF files now also available as .gif files

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

-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.ftpsmail.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

FILE
NAME

WIND/WAVE CHARTS - CENTRAL PACIFIC

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 PJF189.TIF
48HR Pacific Wind/Wave Forecast VT12Z 30S-30N, 110W-130E PJF191.TIF
48HR Pacific Wind/Wave Forecast (Most Current) PJF110.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 PJF187.TIF
48HR Wave Period/Swell Direction VT12Z 20S-30N, E of 145W PJF188.TIF
48HR Wave Period/Swell Direction (Most Current)  
72HR Wind/Wave Forecast VT00Z 20S-30N, E of 145W  
72HR Wind/Wave Forecast VT12Z 20S-30N, E of 145W  
72HR Wind/Wave Forecast (Most Current)  
72HR Wave Period/Swell Direction VT00Z 20S-30N,E of 145W  

WIND/WAVE CHARTS - NORTH PACIFIC  

00Z Sea State Analysis 20N-70N, 115W-135E  
@00Z Wind/Wave Analysis 18N-62N, E OF 157W  
@06Z Wind/Wave Analysis 18N-62N, E OF 157W
SURFACE CHARTS - CENTRAL PACIFIC

@00Z North Pacific Preliminary Analysis 20N-80N, 110W-110E xxxxxx.TIF
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@12Z North Pacific Preliminary Analysis 20N-80N, 110W-110E xxxxxx.TIF
@18Z North Pacific Preliminary Analysis 20N-80N, 110W-110E xxxxxx.TIF
@ North Pacific Preliminary Analysis (Most Current) PYPA00.TIF
00Z Pacific Surface Analysis EQ-50N, 110W-130E PPBA88.TIF
06Z Pacific Surface Analysis EQ-50N, 110W-130E PPBA89.TIF
12Z Pacific Surface Analysis EQ-50N, 110W-130E PPBA90.TIF
18Z Pacific Surface Analysis EQ-50N, 110W-130E PPBA91.TIF
 Pacific Surface Analysis (Most Current) PPBA11.TIF
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@12Z Pacific Streamline Analysis 30S-30N, 110W-130E PWFA92.TIF
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 Pacific Streamline Analysis (Most Current) PWFA11.TIF
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@$18Z Tropical Surface Analysis 40S-40N, 100W-120E xxxxxx.TIF
@$ Tropical Surface Analysis (Most Current) QBFA99.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 PYF87.TIF
48HR Pacific Surface Forecast VT12Z 30S-50N 110W-130E PYF88.TIF
48HR Pacific Surface Forecast (Most Current) PYF11.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  
18Z East Pacific Surface Analysis 20S-30N, E of 145W  
East Pacific Surface Analysis Most Current  

00Z U.S./Tropical Surface Analysis 5S-50N, 55W-125W  
06Z U.S./Tropical Surface Analysis 5S-50N, 55W-125W  
12Z U.S./Tropical Surface Analysis 5S-50N, 55W-125W  
18Z U.S./Tropical Surface Analysis 5S-50N, 55W-125W  
0U.S./Tropical Surface Analysis (Most Current)  

24HR Tropical Surface Forecast VT00, 20S-30N, 80W-145W  
24HR Tropical Surface Forecast VT12, 20S-30N, 80W-145W  
24HR Tropical Surface Forecast (Most Current)  

48HR Tropical Surface Forecast VT00, 20S-30N, 80W-145W  
48HR Tropical Surface Forecast VT12, 20S-30N, 80W-145W  
48HR Tropical Surface Forecast (Most Current)  

72HR Tropical Surface Forecast VT00, 20S-30N, 80W-145W  
72HR Tropical Surface Forecast VT12, 20S-30N, 80W-145W  
72HR Tropical Surface Forecast (Most Current)  

SURFACE CHARTS - NORTH PACIFIC  

00Z Surface Analysis NE Pacific (Part 1) 20N-70W, 115W-175W  
00Z Surface Analysis NW Pacific (Part 2) 20N-70W, 175W-135E  
06Z Surface Analysis NE Pacific (Part 1) 20N-70W, 115W-175W  
06Z Surface Analysis NW Pacific (Part 2) 20N-70W, 175W-135E  
12Z Surface Analysis NE Pacific (Part 1) 20N-70W, 115W-175W  
12Z Surface Analysis NW Pacific (Part 2) 20N-70W, 175W-135E  
18Z Surface Analysis NE Pacific (Part 1) 20N-70W, 115W-175W  
18Z Surface Analysis NW Pacific (Part 2) 20N-70W, 175W-135E  

Surface Analysis, Part 1 (Most Current)  
Surface Analysis, Part 2 (Most Current)  

@24HR Surface Forecast VT00 Forecast 18N-62N, E of 157W  
@24HR Surface Forecast VT12 Forecast 18N-62N, E of 157W  
@24HR Surface Forecast (Most Current)  

48HR Surface Forecast VT00Z 20N-70W, 115W-135E  
48HR Surface Forecast VT12Z 20N-70W, 115W-135E  
48HR Surface Forecast (Most Current)  

96HR Surface Forecast VT12Z 20N-70W, 115W-135E  

TROPICAL CYCLONE CHARTS - PACIFIC  

72HR Tropical Cyclone Danger Area VT 03Z 0N-40N, 80W-170E  
72HR Tropical Cyclone Danger Area VT 09Z 0N-40N, 80W-170E  
72HR Tropical Cyclone Danger Area VT 15Z 0N-40N, 80W-170E  
72HR Tropical Cyclone Danger Area VT 21Z 0N-40N, 80W-170E  
72HR Tropical Cyclone Danger Area (Most Current)  

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
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

Author: Marine, Tropical, and Tsunami Services Branch, W/AFS26
National Weather Service
Feedback or questions: marine.weather@noaa.gov
Last Modified Dec 12, 2014
Document URL: https://tgftp.nws.noaa.gov/fax/rfaxhi.txt
ftp://tgftp.nws.noaa.gov/fax/rfaxhi.txt
**** IMPORTANT NOTICES ****

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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.

********

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:

    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/

<table>
<thead>
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<th>PRODUCT DESCRIPTION</th>
<th>FILE NAME</th>
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<td>Northwest Atlantic High seas (GMDSS Area IV)</td>
<td>north_atlantic.txt</td>
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<tr>
<td>Northeast Pacific High seas (GMDSS Area XII)</td>
<td>north_pacific.txt</td>
</tr>
<tr>
<td>25S-0N, 160E-120W South Central Pacific</td>
<td>south_hawaii.txt</td>
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<tr>
<td>30-60N, east of 160E (p/o NE Pacific)</td>
<td>east_pacific_1.txt</td>
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<tr>
<td>0-30N, E of 140W (p/o NE Pacific)</td>
<td>east_pacific_2.txt</td>
</tr>
<tr>
<td>0-30N, 160E-140W (p/o NE Pacific)</td>
<td>north_hawaii.txt</td>
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</table>

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
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<td>agnt40.kWnm.mim.atn.txt</td>
</tr>
<tr>
<td>Northeast Pacific</td>
<td>agpn40.kWnm.mim.pac.txt</td>
</tr>
<tr>
<td>Gulf, Caribbean Sea &amp; SW N. Atlantic</td>
<td>agxx40.knhc.mim.ats.txt</td>
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</tbody>
</table>

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
```
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

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<tr>
<td>Mid-Atlantic</td>
<td>fznt22.kWbc.off.nt2.txt</td>
</tr>
<tr>
<td>Short version for radio broadcast</td>
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</tr>
<tr>
<td>SW North Atlantic, Caribbean</td>
<td>fznt23.knhc.off.nt3.txt</td>
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</table>
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

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<tr>
<td>Charleston, SC</td>
<td>fznt25.kWnm.off.n03.txt</td>
</tr>
<tr>
<td>Miami, FL</td>
<td>fznt25.knhc.off.n04.txt</td>
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</tbody>
</table>
NAVTEX San Juan, PR
NAVTEX New Orleans, LA
NAVTEX Astoria, OR
NAVTEX Cambria, CA
NAVTEX Honolulu, HI
NAVTEX Kodiak, (SE) AK
NAVTEX Kodiak, (N Gulf) AK
NAVTEX Kodiak, (W) AK
NAVTEX Kodiak, (NW and Artic) AK

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

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

Author: Marine, Tropical, and Tsunami Services Branch, W/AFS26
National Weather Service
Feedback or questions: marine.weather@noaa.gov
Last Modified Dec 12, 2014
Document URL: https://tgftp.nws.noaa.gov/fax/marine1.txt
ftp://tgftp.nws.noaa.gov/fax/marine1.txt
**** 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
*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
*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

<table>
<thead>
<tr>
<th>PRODUCT DESCRIPTION</th>
<th>FILE NAME</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tropical WX Outlook</td>
<td>/weather/outlook.txt</td>
</tr>
<tr>
<td>Tropical WX Discussion</td>
<td>/storm_2/discussion.txt</td>
</tr>
<tr>
<td>Tropical WX Summary</td>
<td>/storm_3/discussion.txt</td>
</tr>
<tr>
<td>Tropical WX Disturbance Stmt</td>
<td>/storm_4/discussion.txt</td>
</tr>
<tr>
<td>Tropical Cyclone Update (Storm #1)</td>
<td>/storm_1/update.txt</td>
</tr>
<tr>
<td>Tropical Cyclone Update (Storm #2)</td>
<td>/storm_2/update.txt</td>
</tr>
<tr>
<td>Tropical Cyclone Update (Storm #3)</td>
<td>/storm_3/update.txt</td>
</tr>
<tr>
<td>Tropical Cyclone Update (Storm #4)</td>
<td>/storm_4/update.txt</td>
</tr>
<tr>
<td>Tropical Cyclone Update (Storm #5)</td>
<td>/storm_5/update.txt</td>
</tr>
<tr>
<td>Tropical Cyclone Discussion (Storm #1)</td>
<td>/storm_1/discussion.txt</td>
</tr>
<tr>
<td>Tropical Cyclone Discussion (Storm #2)</td>
<td>/storm_2/discussion.txt</td>
</tr>
<tr>
<td>Tropical Cyclone Discussion (Storm #3)</td>
<td>/storm_3/discussion.txt</td>
</tr>
<tr>
<td>Tropical Cyclone Discussion (Storm #4)</td>
<td>/storm_4/discussion.txt</td>
</tr>
<tr>
<td>Tropical Cyclone Discussion (Storm #5)</td>
<td>/storm_5/discussion.txt</td>
</tr>
<tr>
<td>Public Advisory (Storm #1)</td>
<td>/storm_1/advisory.txt</td>
</tr>
<tr>
<td>Public Advisory (Storm #2)</td>
<td>/storm_2/advisory.txt</td>
</tr>
<tr>
<td>Public Advisory (Storm #3)</td>
<td>/storm_3/advisory.txt</td>
</tr>
<tr>
<td>Public Advisory (Storm #4)</td>
<td>/storm_4/advisory.txt</td>
</tr>
<tr>
<td>Public Advisory (Storm #5)</td>
<td>/storm_5/advisory.txt</td>
</tr>
<tr>
<td>Tropical Depression Forecast (Storm #1)</td>
<td>/storm_1/technical_advisory.txt</td>
</tr>
<tr>
<td>Tropical Depression Forecast (Storm #2)</td>
<td>/storm_2/technical_advisory.txt</td>
</tr>
<tr>
<td>Tropical Depression Forecast (Storm #3)</td>
<td>/storm_3/technical_advisory.txt</td>
</tr>
<tr>
<td>Tropical Depression Forecast (Storm #4)</td>
<td>/storm_4/technical_advisory.txt</td>
</tr>
<tr>
<td>Tropical Depression Forecast (Storm #5)</td>
<td>/storm_5/technical_advisory.txt</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>PRODUCT DESCRIPTION</th>
<th>FILE NAME</th>
</tr>
</thead>
<tbody>
<tr>
<td>Public Advisory (Storm #1)</td>
<td>/wtpq31.pgum.tcp.pq1.txt Public</td>
</tr>
<tr>
<td>Public Advisory (Storm #2)</td>
<td>/wtpq32.pgum.tcp.pq2.txt Public</td>
</tr>
<tr>
<td>Public Advisory (Storm #3)</td>
<td>/wtpq33.pgum.tcp.pq3.txt Public</td>
</tr>
<tr>
<td>Public Advisory (Storm #4)</td>
<td>/wtpq34.pgum.tcp.pq4.txt Public</td>
</tr>
<tr>
<td>Public Advisory (Storm #5)</td>
<td>/wtpq35.pgum.tcp.pq5.txt Public</td>
</tr>
</tbody>
</table>

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
get wtpn21.pgtw..txt
quit

PRODUCT DESCRIPTION

| 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 #3 | /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 Tropical Cyclone Formation Alert Storm #5 | /wtps25.pgtw..txt |
| NW Pacific Tropical Cyclone Warning Storm #1       | /wtpn31.pgtw..txt |
| NW Pacific Tropical Cyclone Warning Storm #2       | /wtpn32.pgtw..txt |
| NW Pacific Tropical Cyclone Warning Storm #3       | /wtpn33.pgtw..txt |
| NW Pacific Tropical Cyclone Warning Storm #4       | /wtpn34.pgtw..txt |
| NW Pacific Tropical Cyclone Warning Storm #5       | /wtpn35.pgtw..txt |
| SW Pacific Tropical Cyclone Warning Storm #1       | /wtpS31.pgtw..txt |
| SW Pacific Tropical Cyclone Warning Storm #2       | /wtpS32.pgtw..txt |
| SW Pacific Tropical Cyclone Warning Storm #3       | /wtpS33.pgtw..txt |
| SW Pacific Tropical Cyclone Warning Storm #4       | /wtpS34.pgtw..txt |
| SW Pacific Tropical Cyclone Warning Storm #5       | /wtpS35.pgtw..txt |

Author: Marine, Tropical, and Tsunami Services Branch, W/AFS26
Feedback or questions: marine.weather@noaa.gov
Last Modified Dec 12, 2014
Document URL: https://tgftp.nws.noaa.gov/fax/marine2.txt
ftp://tgftp.nws.noaa.gov/fax/marine2.txt
```
**IMPORTANT NOTICES**

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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

<table>
<thead>
<tr>
<th>PRODUCT DESCRIPTION</th>
<th>FILE NAME</th>
</tr>
</thead>
<tbody>
<tr>
<td>Caribou, ME</td>
<td>fzus51.kcar.cwf.car.txt</td>
</tr>
<tr>
<td>Gray, ME</td>
<td>fzus51.kgyx.cwf.gyx.txt</td>
</tr>
<tr>
<td>Taunton, MA</td>
<td>fzus51.kbox.cwf.box.txt</td>
</tr>
<tr>
<td>New York, NY</td>
<td>fzus51.kokx.cwf.okx.txt</td>
</tr>
<tr>
<td>Philadelphia, PA</td>
<td>fzus51.kphi.cwf.phi.txt</td>
</tr>
<tr>
<td>Washington, DC</td>
<td>fzus51.klwx.cwf.lwx.txt</td>
</tr>
<tr>
<td>Wakefield, VA</td>
<td>fzus51.kakq.cwf.akq.txt</td>
</tr>
<tr>
<td>Newport/Morehead City, NC</td>
<td>fzus52.kmhx.cwf.mhx.txt</td>
</tr>
<tr>
<td>Wilmington, NC</td>
<td>fzus52.kilm.cwf.lrm.txt</td>
</tr>
<tr>
<td>Charleston, SC</td>
<td>fzus52.kchs.cwf.chs.txt</td>
</tr>
<tr>
<td>Jacksonville, FL</td>
<td>fzus52.kjax.cwf.jax.txt</td>
</tr>
<tr>
<td>Melbourne, FL</td>
<td>fzus52.kmlb.cwf.mlb.txt</td>
</tr>
<tr>
<td>Miami, FL</td>
<td>fzus52.kmlf.cwf.mlf.txt</td>
</tr>
<tr>
<td>Key West, FL</td>
<td>fzus52.kkey.cwf.key.txt</td>
</tr>
<tr>
<td>San Juan, PR</td>
<td>fzca52.tjs1.cwf.sju.txt</td>
</tr>
<tr>
<td>San Juan, PR (Spanish)</td>
<td>fzca52.tjs1.cwf.spn.txt</td>
</tr>
<tr>
<td>Tampa, FL</td>
<td>fzus52.ktbw.cwf.tbw.txt</td>
</tr>
<tr>
<td>Tallahasee, FL</td>
<td>fzus52.ktae.cwf.taе.txt</td>
</tr>
<tr>
<td>Mobile, AL</td>
<td>fzus54.kmob.cwf.mob.txt</td>
</tr>
<tr>
<td>New Orleans, LA</td>
<td>fzus54.klix.cwf.lix.txt</td>
</tr>
<tr>
<td>Lake Charles, LA</td>
<td>fzus54.kich.cwf.lch.txt</td>
</tr>
<tr>
<td>Houston/Galveston, TX</td>
<td>fzus54.khgx.cwf.hgx.txt</td>
</tr>
<tr>
<td>Corpus Christi, TX</td>
<td>fzus54.kcrp.cwf.crp.txt</td>
</tr>
<tr>
<td>Brownsville, TX</td>
<td>fzus54.kbro.cwf.bro.txt</td>
</tr>
<tr>
<td>Seattle, WA</td>
<td>fzus56.ksew.cwf.sew.txt</td>
</tr>
<tr>
<td>Portland, OR</td>
<td>fzus56.kpqr.cwf.pqr.txt</td>
</tr>
<tr>
<td>Medford, OR</td>
<td>fzus56.kmfr.cwf.mfr.txt</td>
</tr>
<tr>
<td>Eureka, CA</td>
<td>fzus56.keka.cwf.eka.txt</td>
</tr>
<tr>
<td>San Francisco, CA</td>
<td>fzus56.kmtr.cwf.mtr.txt</td>
</tr>
<tr>
<td>Los Angeles, CA</td>
<td>fzus56.klox.cwf.lox.txt</td>
</tr>
<tr>
<td>San Diego, CA</td>
<td>fzus56.ksgx.cwf.sgx.txt</td>
</tr>
<tr>
<td>Hawaii</td>
<td>fzhw50.phfo.cwf.hfo.txt</td>
</tr>
<tr>
<td>Hawaii (Generalized)</td>
<td>fzhw50.phfo.cwf.hfo.txt</td>
</tr>
<tr>
<td>Marianas (Guam)</td>
<td>fzmy50.pgum.cwf.my.txt</td>
</tr>
<tr>
<td>East Micronesia</td>
<td>fzpq51.pgum.cwf.pq1.txt</td>
</tr>
<tr>
<td>West Micronesia</td>
<td>fzpq52.pgum.cwf.pq2.txt</td>
</tr>
<tr>
<td>Samoa</td>
<td>fzzs50.nstu.cwf.ppg.txt</td>
</tr>
<tr>
<td>Buffalo, NY</td>
<td>fzus51.kbuf.nsh.buf.txt</td>
</tr>
<tr>
<td>Cleveland, OH</td>
<td>fzus51.kcle.nsh.cle.txt</td>
</tr>
<tr>
<td>Detroit/Pontiac, MI</td>
<td>fzus53.kdtx.nsh.dtx.txt</td>
</tr>
<tr>
<td>Gaylord, MI</td>
<td>fzus53.kapx.nsh.apx.txt</td>
</tr>
<tr>
<td>Grand Rapids, MI</td>
<td>fzus53.kgrr.nsh.grrr.txt</td>
</tr>
<tr>
<td>Northern Indiana, IN</td>
<td>fzus53.klwx.nsh.iwx.txt</td>
</tr>
<tr>
<td>Chicago, IL</td>
<td>fzus53.klot.nsh.lot.txt</td>
</tr>
<tr>
<td>Milwaukee/Sullivan, WI</td>
<td>fzus53.kmkk.nsh.mkx.txt</td>
</tr>
</tbody>
</table>
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.
To retrieve Wave Watch III 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 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
"glr" 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/ofsf/)

URLs =
http://polar.ncep.noaa.gov/ofsf/ofsf_images/large/ofsf_zzzz_yyyy_xxxx.png
 e.g.
http://polar.ncep.noaa.gov/ofsf/ofsf_images/large/ofsf_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 (°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
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

This service is no longer operational

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) 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 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<<<
Meteo-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/

Author: Marine, Tropical, and Tsunami Services Branch, W/AFS26
National Weather Service
Last Modified May 08, 2014
Document URL: https://tgftp.nws.noaa.gov/fax/robots.txt
ftp://tgftp.nws.noaa.gov/fax/robots.txt
USEFUL MARINE WEATHER PUBLICATIONS

Marine Service Charts (MSC) - Free

Marine Service Charts (MSC) list frequencies, schedules and locations of stations disseminating NWS products. They also contain additional weather information of interest to the mariner. Charts are also available via the Internet as listed below.

Both sides of the charts are available, both in JPG and PDF formats. The front side of the charts shows the map and the back side shows the text that accompanies the chart. PDF format is helpful if you need to zoom in on a specific area of the chart.

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

* N/A = No longer available

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APPENDIX D-1
OTHER PUBLICATIONS OF VALUE TO THE MARINER

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

APPENDIX D-5
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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.