WORLDWIDE MARINE RADIOFACSIMILE BROADCAST SCHEDULES

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

NATIONAL WEATHER SERVICE

January 31, 2019

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:

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

The following webpage contains information on the dissemination of U.S. National Weather Service marine products including 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.

http://www.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*** ***http://www.nws.noaa.gov/disclaimer.php***.

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ABOUT THIS PUBLICATION

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

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

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

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

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

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

The accuracy of this publication depends on YOUR input.

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

National Weather Service W/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

CALL SIGNS	FREQUENCIES		TIMES	EMISSION	POWER
ZSJ	4014	kHz	16Z-06Z (when available)	J3C	10 kW
ZSJ	7508	kHz	ALL BROADCAST TIMES	J3C	10 kW
ZSJ	13538	kHz	ALL BROADCAST TIMES	J3C	10 kW
ZSJ	18238	kHz	06Z-16Z (when available)	J3C	10 kW

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

MAP AREAS:

ASXX	1:20,000 Lambert	00S20W	00S70E	60S50W	60S90E
FUXX	1:20,000 Mercator	05S15W	05S60E	60S15W	60S60E
FSXX	1:20,000 Mercator	05S15W	05S60E	60S15W	60S60E

AIAA 30E to 30W Antarctic coast to edge of ice pack except NIC West

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

ASIA

TOKYO, JAPAN

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

TIME	CONTENTS OF TRANSMISSION	RPM/IOC	VALID TIME	MAP AREA
0000/1200	RETRANSMISSION OF 2200/0750 (1)	120/576	12/06	
0020/------	96HR SURFACE PRESSURE, PRECIP PROGS	120/576	1200	C
0040/------	120HR SURFACE PRESSURE, PRECIP PROGS	120/576	1200	C
-------/1220	12/24/48/72HR OCEAN WAVE PROG	120/576	0000	
-------/1240	24 HR 500hPa TEMPERATURE AND 700hPa DEWPOINT DEPRESSION PROG 24HR 850hPa TEMPERATURE WIND AND 700hPa VERTICAL P-VELOCITY PROG	120/576	0000	
-------/1251	36 HR 500hPa TEMPERATURE AND 700hPa DEWPOINT DEPRESSION PROG 36HR 850hPa TEMPERATURE WIND AND 700hPa VERTICAL P-VELOCITY PROG	120/576	0000	
0103/1303	TEST CHART	120/576		
0110/1310	METEOROLOGICAL SATELLITE PICTURE (MSAT)	120/576	00/12	C'
0130/1330	RETRANSMISSION OF 1019/0730	120/576	00/00	
0150/1350	TROPICAL CYCLONE FORECAST(1)	120/576	00/12	C'
0210/------	SEA SURFACE CURRENT, WATER TEMPERATURE AT 100M DEPTH (2)	120/576		
0229/-------	RADIO PREDICTION (3)	120/576		
-------/1420	RETRANSMISSION OF 0210 (2)			
0240/1440	SURFACE ANALYSIS	120/576	00/12	C'
0300/-------	SEA SURFACE WATER TEMPERATURE (2)	120/576		
0320/1520	THE FIRST RETRANSMISSION OF 0240/1440	120/576	00/12	
0340/-------	BROADCAST SCHEDULE and MANUAL AMENDMENTS	120/576		
0400/1540	TROPICAL CYCLONE FORECAST (6)	120/576	00/12	
------/1600	SEA SURFACE WATER TEMPERATURE (2)	120/576		
0421/1620	OCEAN WAVE ANALYSIS	120/576	00/12	C"
0440/-------	COASTAL WAVE ANALYSIS	120/576	0000	X
0459/1640	500 hPa HEIGHT, TEMPERATURE	120/576	00/12	C
0518/1700	850 hPa HEIGHT, TEMPERATURE, DEW POINT DEPRESSION	120/576	00/12	C
-------/1719	COASTAL WAVE ANALYSIS	120/576	1200	X
0537/1739	24HR 500 hPa HEIGHT, VORTICITY PROGNOSIS 24 HR SURFACE PRESSURE, PRECIPITATION PROGNOSIS	120/576	00/12	
0548/-------	24HR SURFACE PRESSURE, WIND, FOG, ICING, SEA ICE PROG	120/576	0000	C'
0610/1750	RETRANSMISSION OF 0150/1350 (1)	120/576	00/12	
0630/-------	48/72 HR SURFACE PRESSURE, PRECIPITATION PROGNOSIS	120/576	00/00	
------/1810	36HR 500 hPa HEIGHT, VORTICITY PROGNOSIS 36HR SURFACE PRESSURE, PRECIPITATION 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	120/576	1200	
------/1832	36 HR 500 hPa TEMPERATURE AND 700 hPa DEWPOINT DEPRESSION PROG 36HR 850 hPa TEMPERATURE WIND AND 700 hPa VERTICAL P-VELOCITY PROG	120/576	1200	
------/1850	12/24/48/72HR OCEAN WAVE PROG	120/576	1200	
0651/------	24HR WAVE PROG (NORTH PACIFIC)	120/576	0000	C"
0710/1910	METEOROLOGICAL SATELLITE PICTURE (MSAT)	120/576	06/18	C'
0730/------	24HR COASTAL WAVE PROG	120/576	0000	X
-------/1930	24HR SURFACE PRESSURE, WIND, FOG, ICING, SEA ICE PROG	120/576	1200	C'
0750/1950	TROPICAL CYCLONE FORECAST (1)	120/576	06/18	C'
------/2010	24HR COASTAL WAVE PROG (1)	120/576	1200	X
0809/-------	36HR 500 hPa HEIGHT, VORTICITY PROGNOSIS 36HR SURFACE PRESSURE, PRECIPITATION PROGNOSIS	120/576	0000	
0820/------	48HR SURFACE PRESSURE, WIND, FOG, ICING, SEA ICE PROG	120/576	0000	C'
0840/2040	SURFACE ANALYSIS	120/576	06/18	C'
-------/2100	48HR SURFACE PRESSURE, WIND, FOG, ICING, SEA ICE PROG	120/576	1200	C
0900/------	TROPICAL CYCLONE FORECAST (6)	120/576	0600	
0920/2120	THE FIRST RETRANSMISSION OF 0840/2040	120/576	06/18	
0940/------	RETRANSMISSION OF 0630/1950	120/576	00/18	
------/2140	TROPICAL CYCLONE FORECAST(6)	120/576	1800	C'
1000/------	RETRANSMISSION OF 0820	120/576	0000	

TOKYO, JAPAN

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

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

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

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

PEVEK, CHUKOTKA PENINSULA

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

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

(INFORMATION DATED 11/97)

TAIPEI, REPUBLIC OF CHINA - Operations Discontinued

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

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

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

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

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

BANGKOK, THAILAND

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

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

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

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

(INFORMATION DATED JAN 2009)

KYODO NEWS AGENCY, JAPAN/SINGAPORE

CALL SIGNS	FREQUENCIES		TIMES	EMISSION	POWER
JJC	4316	kHz	ALL BROADCAST TIMES	J3C	5 kW
JJC	8467.5	kHz	ALL BROADCAST TIMES	J3C	10 kW
JJC	12745.5	kHz	ALL BROADCAST TIMES	J3C	15 kW
JJC	16971	kHz	ALL BROADCAST TIMES	J3C	15 kW
JJC	17069.6	kHz	ALL BROADCAST TIMES	J3C	15 kW
JJC	22542	kHz	ALL BROADCAST TIMES	J3C	15 kW
9VF/252	16035	kHz	0740-1010, 1415-1815	J3C	10 kW
9VF/252	17430	kHz	0740-1010, 1415-1815	J3C	10 kW

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

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

Some of these transmissions may be encrypted

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

NORTHWOOD, UNITED KINGDOM (PERSIAN GULF)

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

CALL SIGNS	FREQUENCIES	TIMES	EMISSION	POWER
GYA	6834 kHz	1800-0800 UTC	J3C	10 kW
GYA	12390 kHz	ALL BROADCAST TIMES	J3C	10 kW
GYA	18261 kHz	0800-1800 UTC	J3C	10 kW

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

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

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

SOUTH AMERICA

RIO DE JANEIRO, BRAZIL

CALL SIGNS	FREQUENCIES		TIMES	EMISSION	POWER
PWZ-33	12665	kHz	ALL BROADCAST TIMES	J3C	1 kW
PWZ-33	16978	kHz	ALL BROADCAST TIMES	J3C	1 kW

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

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

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

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

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

TIME	CONTENTS OF TRANSMISSION (CBV)	RPM/IOC	VALID TIME	MAP AREA
1100	TEST CHART CBV CBM SCHEDULES	120/576		
1115	SURFACE CHART	120/576	0600	A
1130	SATELLITE IMAGE	120/576	0900	A
1630	24 HR SURFACE FORECAST	120/576	1200	A
1645	SATELLITE IMAGE	120/576	1500	A
1915	SURFACE CHART	120/576	1200	A
1930	SATELLITE IMAGE	120/576	1800	A
2200	36 HR SURFACE FORECAST	120/576	0000	A
2215	SURFACE CHART	120/576	1800	B
2230	WINDS BARB ISOTACHS FORECAST	120/576	1200	A
2310	48 HR SURFACE FORECAST	120/576	1200	A
2325	SATELLITE IMAGE	120/576	2100	A

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

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

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

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

HALIFAX, NOVA SCOTIA, CANADA – not currently active

CALL SIGN	FREQUENCIES	TIMES	EMISSION	POWER
CFH	122.5 kHz	ALL BROADCAST TIMES	J3C	10 kW
	4271 kHz	ALL BROADCAST TIMES	J3C	6 kW
	6496.4 kHz	ALL BROADCAST TIMES	J3C	6 kW
	10536 kHz	ALL BROADCAST TIMES	J3C	6 kW
	13510 kHz	ALL BROADCAST TIMES	J3C	6 kW

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

NOTES:

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

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

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

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

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

IQALUIT, CANADA

CALL SIGN	FREQUENCIES	TIMES	EMISSION	POWER
VFF	3253.0 kHz	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 TIME	MAP AREA
0100/1000	Marine Surface Analysis (Arctic) Marine Wind Prognosis (Arctic)(experimental product) Regional Marine Wind Prognosis (on request)	120/576		
0200/1100	Ice analysis Hudson Bay south, Hudson Bay north, Hudson Strait, Foxe Basin, Labrador Coast, Davis Strait, Baffin Bay	120/576		
0600/2100	Marine Surface Analysis (Arctic) Marine wind prognosis (Arctic) (experimental product) Regional Marine Wind Prognosis (on request)	120/576		
0700/2200	Ice Analysis Hudson Bay south, Hudson Bay north, Hudson Strait, Foxe Basin, Labrador Coast, Davis Strait, Baffin Bay.	120/576		

Operating only from approximately mid-June until late-November

(INFORMATION DATED 2011) http://www.ccg-gcc.gc.ca/folios/01133/docs/RAMN-2014-ATLANTIC-eng.pdf

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

Operating only from approximately mid-June until late-November

(INFORMATION DATED 2011) http://www.ccg-gcc.gc.ca/folios/01133/docs/RAMN-2014-ATLANTIC-eng.pdf

SYDNEY - NOVA SCOTIA, CANADA

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

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

(INFORMATION DATED 2014) http://www.ccg-gcc.gc.ca/folios/01133/docs/RAMN-2014-ATLANTIC-eng.pdf

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 (Availability of charts may vary depending on shipping Ice Analysis (mid July to October 15) Amundsen Gulf, Queen Maud and McClure Strait. Ice Analysis Beaufort Sea/Alaskan Coast	120/576	1200	
1630/2100	Marine Surface Analysis (Availability of charts may vary depending on shipping Ice Analysis (mid July to October 15) Amundsen Gulf, Queen Maud and McClure Strait. Ice Analysis Beaufort Sea/Alaskan Coast	120/576	1200	

Note: Also available on request

(INFORMATION DATED 2014) http://www.ccg-gcc.gc.ca/folios/01133/docs/RAMN-2014-PACIFIC-eng.pdf

KODIAK, ALASKA, U.S.A.

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

TRANS TIME (UTC)	CONTENTS OF TRANSMISSION	RPM/IOC	VALID TIME	MAP AREA
0340/1540	TEST PATTERN	120/576		
0343/1543	SEA ICE ANALYSIS/REBROADCAST 1057	120/576	LATEST	6
0403/1603	SURFACE ANALYSIS	120/576	00/12	2
0427/1627	REBROADCAST 24HR SURFACE F'CAST 2203/1017	120/576	12/00	3
0437/1637	REBROADCAST 48HR SURFACE F'CAST 2227/1037	120/576	12/00	1
0447/1647	REBROADCAST 96HR SURFACE F'CAST 2348	120/576	12/12	1
0456/1656	SEA STATE ANALYSIS/REBROADCAST	120/576	00/00	1
0506/1706	GOES IR SATELLITE IMAGE	120/576	00/12	5
0517/1717	500 MB ANALYSIS	120/576	00/12	1
0527/1727	SYMBOLS AND CONTRACTIONS/SCHEDULE	120/576		
0548/1748	REQUEST FOR COMMENTS/PRODUCT NOTICE	120/576		
0558/1758	24HR 500 MB FORECAST	120/576	00/12	1
----/1808	48HR 500 MB FORECAST	120/576	1200	
0950/2150	TEST PATTERN	120/576		
0953/2153	SURFACE ANALYSIS	120/576	06/18	2
1017/2203	24HR SURFACE FORECAST	120/576	00/12	3
1027/2217	24HR WIND/WAVE FORECAST	120/576	00/12	3
1037/2227	48HR SURFACE FORECAST	120/576	00/12	1
1047/2237	48HR WIND/WAVE FORECAST	120/576	00/12	1
----/2247	48HR WAVE PERIOD, SWELL DIRECTION	120/576	1200	1
1057/2257	5-DAY SEA ICE FORECAST/REBROADCAST 0343	120/576	LATEST	6
1117/2307	GOES IR SATELLITE IMAGE	120/576	06/18	5
1128/----	48HR WAVE PERIOD, SWELL DIRECTION	120/576	0000	1
1138/----	48HR 500 MB FORECAST	120/576	0000	1
1148/----	SEA SURFACE TEMPERATURE ANALYSIS	120/576	LATEST	4
1159/----	COOK INLET SEA ICE FORECAST	120/576	LATEST	7
----/2317	72HR SURFACE FORECAST	120/576	1200	1
----/2328	72HR WIND/WAVE FORECAST	120/576	1200	1
----/2338	72HR WAVE PERIOD, SWELL DIRECTION	120/576	1200	1
----/2348	96HR SURFACE FORECAST	120/576	1200	1
----/2358	96HR WIND/WAVE FORECAST	120/576	1200	1
----/0008	96HR WAVE PERIOD, SWELL DIRECTION	120/576	1200	1
----/0018	96HR 500 MB FORECAST	120/576	1200	1

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

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

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

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

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

http://www.nws.noaa.gov	NWS Homepage
http://www.nws.noaa.gov/om/marine/home.htm	NWS Marine Page
http://www.nws.noaa.gov/om/marine/cell/marine.htm	Cellphone page
mobile.weather.gov	Mobile Page

(SCHEDULE EFFECTIVE SEP 19 2018)
(INFORMATION DATED Sep 7, 2018) http://tgftp.nws.noaa.gov/fax/hfak.txt

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

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

TRANS TIME	CONTENTS OF TRANSMISSION	RPM/IOC	VALID TIME	MAP AREA
0140/1400	TEST PATTERN	120/576		
0143/1403	NE PACIFIC GOES IR SATELLITE IMAGE	120/576	00/12	6
0154/1414	PACIFIC GOES IR SATELLITE IMAGE	120/576	00/12	5
0205/1425	TROPICAL SEA STATE ANALYSIS	120/576	00/12	4
0215/1435	TROPICAL 48HR SURFACE FORECAST	120/576	12/00	4
0225/----	TROPICAL 48HR WIND/WAVE FORECAST	120/576	1200	4
0235/----	TROPICAL 72HR WIND/WAVE FORECAST	120/576	1200	4
0245/1445	500MB ANALYSIS	120/576	00/12	1
0255/1455	SEA STATE ANALYSIS, WIND/WAVE ANALYSIS	120/576	00/12	1/8
0305/1505	PRELIM SURFACE ANALYSIS(PART 1 NE PAC)	120/576	00/12	2
0318/1518	PRELIM SURFACE ANALYSIS(PART 2 NW PAC)	120/576	00/12	3
0331/1531	FINAL SURFACE ANALYSIS(PART 1 NE PAC)	120/576	00/12	2
0344/1544	FINAL SURFACE ANALYSIS(PART 2 NW PAC)	120/576	00/12	3
0357/1557	CYCLONE DANGER AREA* or HIGH WIND/WAVES	120/576	03/15	10
0408/1608	TROPICAL SURFACE ANALYSIS	120/576	00/12	4
0655/1820	TEST PATTERN			
0657/----	1953Z REBROADCAST (96HR 500MB)	120/576	1200	1
0707/----	1933Z REBROADCAST (96HR SURFACE)	120/576	1200	1
0717/----	1943Z REBROADCAST (96HR WIND/WAVE)	120/576	1200	1
0727/----	2003Z REBROADCAST (96HR WAVE PERIOD)	120/576	1200	1
----/1822	24HR SURFACE FORECAST	120/576	1200	8
----/1832	24HR WIND/WAVE FORECAST	120/576	1200	8
----/1842	24HR 500MB FORECAST	120/576	1200	1
----/1852	SST ANALYSIS	120/576	LATEST	9
----/1902	SST ANALYSIS	120/576	LATEST	6
0737/1913	TROPICAL GOES IR SATELLITE IMAGE	120/576	06/18	7
0748/1923	WIND/WAVE ANALYSIS	120/576	06/18	8
0758/----	24HR SURFACE FORECAST	120/576	0000	8
0808/----	24HR WIND/WAVE FORECAST	120/576	0000	8
0818/----	24HR 500MB FORECAST	120/576	0000	1
----/1933	96HR SURFACE FORECAST	120/576	1200	1
----/1943	96HR WIND/WAVE FORECAST	120/576	1200	1
----/1953	96HR 500MB FORECAST	120/576	1200	1
----/2003	96HR WAVE PERIOD/SWELL DIRECTION	120/576	1200	1
0828/2013	48HR SURFACE FORECAST	120/576	00/12	1
0838/2023	48HR WIND/WAVE FORECAST	120/576	00/12	1
0848/2033	48HR 500MB FORECAST	120/576	00/12	1
0858/2043	48HR WAVE PERIOD/SWELL DIRECTION	120/576	00/12	1
----/2053	72HR SURFACE FORECAST	120/576	1200	1
----/2103	72HR WIND/WAVE FORECAST	120/576	1200	1
0908/2113	PACIFIC GOES IR SATELLITE IMAGE	120/576	06/18	5
0919/2124	SURFACE ANALYSIS (PART 1 NE PACIFIC)	120/576	06/18	2
0932/2137	SURFACE ANALYSIS (PART 2 NW PACIFIC)	120/576	06/18	3
0945/2150	TROPICAL SURFACE ANALYSIS	120/576	06/18	4
0959/2204	TROPICAL 24HR WIND/WAVE FORECAST	120/576	00/12	4
1009/2214	CYCLONE DANGER AREA* or HIGH WIND/WAVES	120/576	09/21	10
1120/2320	TEST PATTERN	120/576		
1124/2324	BROADCAST SCHEDULE (PART 1)	120/576		

1135/2335	BROADCAST SCHEDULE (PART 2)	120/576		
1146/----	REQUEST FOR COMMENTS	120/576		
1157/----	PRODUCT NOTICE BULLETIN	120/576		
1208/----	TROPICAL 48HR WIND/WAVE FORECAST	120/576	0000	4
1218/----	TROPICAL 72HR WIND/WAVE FORECAST	120/576	0000	4
1228/2346	TROPICAL 48HR WAVE PERIOD/SWELL DIR	120/576	00/12	4
----/2356	TROPICAL 72HR WAVE PERIOD/SWELL DIR	120/576	0000	4

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

MAP AREAS:
1. 20N - 70N, 115W - 135E
2. 20N - 70N, 115W - 175W
3. 20N - 70N, 175W - 135E
4. 20S - 30N, EAST OF 145W
5. 05N - 55N, EAST OF 180W
6. 23N - 42N, EAST OF 150W
7. 05N - 32N, EAST OF 125W
8. 18N - 62N, EAST OF 157W
9. 40N - 53N, EAST OF 136W
10. 0N - 40N, 80W - 180W

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

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

Please send comments regarding the quality of these charts to:

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PT. REYES STATION, CA 94956-0560
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COM-DG-M-CWOWatchstanders@uscg.mil

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http://www.nws.noaa.gov/om/marine/home.htm	NWS Marine Page
http://www.nws.noaa.gov/om/marine/cell/marine.htm	Cellphone page
mobile.weather.gov	Mobile Page

(SCHEDULE EFFECTIVE SEP 19, 2018)
(INFORMATION DATED SEP 07, 2018) http://tgftp.nws.noaa.gov/fax/hfreyes.txt

NEW ORLEANS, LOUISIANA, U.S.A

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

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

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

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

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

Please send comments regarding the quality of these charts to:

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 CAMSLANT
4720 DOUGLAS A. MUNRO RD.
CHESAPEAKE, VA 23322-2598
(800) 742-8519 (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.

http://www.nws.noaa.gov	NWS Homepage
http://www.nws.noaa.gov/om/marine/home.htm	NWS Marine Page
http://www.nws.noaa.gov/om/marine/cell/marine.htm	Cellphone page
mobile.weather.gov	Mobile Page

(Schedule Effective Apr 03, 2012)
(Information datedfeb 03, 2012) http://tgftp.nws.noaa.gov/fax/hfgulf.txt

BOSTON, MASSACHUSETTS, U.S.A.

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

TRANS TIME	CONTENTS OF TRANSMISSION	RPM/IOC	VALID TIME	MAP AREA
0230/1400	TEST PATTERN	120/576		
0233/----	PRELIMINARY SURFACE ANALYSIS	120/576	0000	1
0243/1405	BROADCAST SCHEDULE (PART 1)	120/576		
0254/1420	BROADCAST SCHEDULE (PART 2)	120/576		
0305/1433	REQUEST FOR COMMENTS	120/576		
----/1443	PRODUCT NOTICE BULLETIN	120/576		
----/1453	PRELIMINARY SURFACE ANALYSIS	120/576	1200	1
----/1503	SATELLITE IMAGE	120/576	1200	5
0315/1515	WIND/WAVE ANALYSIS	120/576	00/12	8
0325/1525	SURFACE ANALYSIS (PART 1 NE ATLANTIC)	120/576	00/12	2
0338/1538	SURFACE ANALYSIS (PART 2 NW ATLANTIC)	120/576	00/12	3
0351/----	SATELLITE IMAGE	120/576	0000	5
----/1600	ICE CHART (REBROADCAST)	120/576	2100	
----/1720	TEST PATTERN	120/576		
0402/1723	(REBROADCAST OF 0325/1525 NE ATLANTIC)	120/576	00/12	2
0415/1736	(REBROADCAST OF 0338/1538 NW ATLANTIC)	120/576	00/12	3
0428/1749	500MB ANALYSIS	120/576	00/12	4
----/1759	SEA STATE ANALYSIS	120/576	1200	4
0438/----	ICE CHART (REBROADCAST)	120/576	2100	
----/1810	24HR SURFACE FORECAST	120/576	1200	8
0452/1824	CYCLONE DANGER AREA* or HIGH WIND/WAVES	120/576	03/15	7
----/1835	24HR WIND/WAVE FORECAST	120/576	1200	8
----/1855	24HR 500MB FORECAST	120/576	1200	4
0745/----	TEST PATTERN	120/576		
0755/----	PRELIMINARY SURFACE ANALYSIS	120/576	0600	1
0805/----	24HR SURFACE FORECAST	120/576	0000	8
0815/----	24HR WIND/WAVE FORECAST	120/576	0000	8
0825/----	24HR 500MB FORECAST	120/576	0000	4
0835/1905	36HR 500MB FORECAST	120/576	00/12	4
----/1915	96HR SURFACE FORECAST	120/576	1200	4
----/1925	96HR WIND/WAVE FORECAST	120/576	1200	4
----/1935	96HR 500MB FORECAST	120/576	1200	4
----/1945	96HR WAVE PERIOD FORECAST	120/576	1200	4
0845/1955	48HR SURFACE FORECAST	120/576	00/12	4
0855/2005	48HR WIND/WAVE FORECAST	120/576	00/12	4
0905/2015	48HR 500MB FORECAST	120/576	00/12	4
0915/2025	48HR WAVE PERIOD FORECAST	120/576	00/12	4
----/2035	PRELIMINARY SURFACE ANALYSIS	120/576	1800	1
----/2045	72HR SURFACE FORECAST	120/576	1200	4
----/2055	72HR WIND/WAVE FORECAST	120/576	1200	4
----/2105	72HR 500MB FORECAST	120/576	1200	4
----/2115	72HR WAVE PERIOD FORECAST	120/576	1200	4
0925/2125	SURFACE ANALYSIS (PART 1 NE ATLANTIC)	120/576	06/18	2
0938/2138	SURFACE ANALYSIS (PART 2 NW ATLANTIC)	120/576	06/18	3
0951/2151	SATELLITE IMAGE	120/576	06/18	6
1002/2202	(REBROADCAST OF 0925/2125 NE ATLANTIC)	120/576	06/18	2
1015/2215	(REBROADCAST OF 0938/2138 NW ATLANTIC)	120/576	06/18	3
1028/2228	CYCLONE DANGER AREA* or HIGH WIND/WAVES	120/576	09/21	7
1039/2239	REBROADCAST/N American Ice Service Chart	120/576	21/21	

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

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

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

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

Please send comments regarding the quality of these charts to:

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.list.opc_web@noaa.gov

Please send comments regarding the quality of this broadcast to:

COMMANDING OFFICER
USCG CAMSLANT
4720 DOUGLAS A. MUNRO RD.
CHESAPEAKE, VA 23322-2598
(800) 742-8519 (757)421-6240
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.

http://www.nws.noaa.gov	NWS Homepage
http://www.nws.noaa.gov/om/marine/home.htm	NWS Marine Page
http://www.nws.noaa.gov/om/marine/cell/marine.htm	Cellphone page
mobile.weather.gov	Mobile Page

(EFFECTIVE DATE: SEP 19, 2018)
(INFORMATION DATED: SEP 07, 2018) http://tgftp.nws.noaa.gov/fax/hfmarsh.txt

PACIFIC OCEAN BASIN

CHARLEVILLE, AUSTRALIA

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

WILUNA, AUSTRALIA

CALL SIGN	FREQUENCIES		TIMES	EMISSION	POWER
VMW	5755	kHz	1100-2100	J3C	1 kW
VMW	7535	kHz	All Broadcast Times	J3C	1 kW
VMW	10555	kHz	All Broadcast Times	J3C	1 kW
VMW	15615	kHz	All Broadcast Times	J3C	1 kW
VMW	18060	kHz	2100-1100	J3C	1 kW

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

CHARLEVILLE & WILUNA, AUSTRALIA

TIME	CONTENTS OF TRANSMISSION	RPM/IOC	VALID TIME	MAP AREA

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

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

FOR FURTHER INFORMATION CONTACT:

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

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

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

WELLINGTON, NEW ZEALAND

CALL SIGN	FREQUENCIES	TIMES	EMISSION	POWER
ZKLF	3247.4 kHz	0945-1700	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	SWP
0900/2100	TASMAN-NEW ZEALAND MSL ANALYSIS	120/576	06/18	TNZ
1000/2200	SOUTHWEST PACIFIC MSL ANALYSIS	120/576	06/18	SWP
1100/2300	TRANSMISSION SCHEDULE			

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

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

HONOLULU, HAWAII, U.S.A.

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

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

MAP AREAS:

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

HONOLULU, HAWAII, U.S.A.

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

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

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

YOU MAY ADDRESS COMMENTS ABOUT THIS BROADCAST TO:

Meteorologist In Charge
National Weather Service
2525 Correa Rd.
Honolulu, HI 96822
PHONE: (808) 973-5270/FAX: (808) 973-5281
E-Mail W-HFO.operations@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.

http://www.nws.noaa.gov	NWS Homepage
http://www.nws.noaa.gov/om/marine/home.htm	NWS Marine Page
http://www.nws.noaa.gov/om/marine/cell/marine.htm	Cellphone page
mobile.weather.gov	Mobile Page

(SCHEDULE EFFECTIVE Nov 03, 2008)
(INFORMATION DATED Apr 17, 2015) http://tgftp.nws.noaa.gov/fax/hfhi.txt

EUROPE

ATHENS, GREECE

CALL SIGN	FREQUENCY	TIMES	EMISSION	POWER
SVJ4	*4481 kHz		J3C	8 kW
SVJ4	*8105 kHz		J3C	8 kW

TIME	CONTENTS OF TRANSMISSION	RPM/IOC	VALID TIME	MAP AREA
0845	SURFACE ANALYSIS	120/576	0600	A
0857	SURFACE PROG (H+42)	120/576	0600	A
0909	SURFACE PROG (H+66)	120/576	0600	A
0921	WAVE HEIGHT PROG (H+30)	120/576	1800	B
0933	WAVE HEIGHT PROG (H+36)	120/576	0000	B
0945	WAVE HEIGHT PROG (H+42)	120/576	0600	B
0957	WAVE HEIGHT PROG (H+48)	120/576	1200	B
1009	WAVE HEIGHT PROG (H+30)	120/576	1800	C
1021	WAVE HEIGHT PROG (H+36)	120/576	0000	C
1033	WAVE HEIGHT PROG (H+42)	120/576	0600	C
1044	WAVE HEIGHT PROG (H+48)	120/576	1200	C

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

*Center Frequency is 1.9 khz higher

(INFORMATION DATED (01/2019)

MURMANSK, RUSSIA

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

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

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

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

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

HAMBURG/PINNEBERG, GERMANY

CALL SIGNS	FREQUENCIES		TIMES	EMISSION	POWER	
DDH3	3855	kHz	ALL BROADCAST TIMES	J3C	10	kW
DDK3	7880	kHz	ALL BROADCAST TIMES	J3C	20	kW
DDK6	13882.5	kHz	ALL BROADCAST TIMES	J3C	20	kW

TIME	CONTENTS OF TRANSMISSION	RPM/IOC	VALID TIME	MAP AREA
0430/16**36**	Surface weather chart	120/576	00/12	
0512/-------	h + 36 (GME) surface pressure	120/576	0000	
0525/1800	surface pressure analysis, arrows showing the movement of pressure systems, significant weather, ice	120/576	00/12	
0638/1821	Information of tropical storms, North Atlantic (during the season)	120/576	03/15	
-------/1834	H+24 (GME) surface pressure	120/576	1200	
0651/-------	H + 12, H + 24 (GME) 500 hPa H + T, surface P	120/576	0000	
0704/-------	H + 12, H + 24 (GME) 850 hPa H + T, 700 hPa U	120/576	0000	
0717/-------	Repetition chart 0512 UTC	120/576	1800	
0730/1847	H+48 (GME) surface pressure	120/576	00/12	
0743/-------	H+60 (GME) surface pressure	120/576	0000	
0804/1900	H+84 (GME) surface pressure	120/576	00/12	
0817/-------	H+108 (GME) surface pressure	120/576	0000	
0830/1913	H+24 (GSM) Sea and swell, wind direction, direction of swell	120/576	00/12	
0842/1926	H+48 (GSM) Sea and swell, wind direction, direction of swell	120/576	00/12	
0854/1939	H+72 (GSM) Sea and swell, wind direction, direction of swell	120/576	00/12	
0906/------	H+96 (GSM) Sea and swell, wind direction, direction of swell	120/576	0000	
0930/-------	H + 36, H + 48 (GME) 500 hPa H + T, surface P	120/576	0000	
0945/-------	Sea surface temperature North Sea	120/576	0000	
1007/2115	Ice conditions chart West Baltic Sea	120/576	00/15	
1029/2136	H+48 wave prediction North Atlantic	120/576	00/12	
1050/2200	Surface weather chart	120/576	06/18	
1111/-------	H + 36, H + 48 (GME) 850 hPa H + T, 700 hPa U	120/576	0000	
1123/------	H + 60, H + 72 (GME) 850 hPa H + T, 700 hPa U	120/576	0000	
1236/-------	Repetition chart 1050 UTC	120/576	0600	
1256/-------	Repetition chart 0512 UTC	120/576	1800	
1308/-------	Repetition chart 0730 UTC	120/576	0000	
1320/-------	Repetition chart 0743 UTC	120/576	0000	
1332/-------	Repetition chart 0804 UTC	120/576	0000	
1344/-------	Repetition chart 0817 UTC	120/576	0000	
1356/-------	Repetition chart 1050 UTC	120/576	0600	
1425/-------	Schedule part 1			
1445/-------	Schedule part 2			
------/1508	Ice conditions NW Atlantic Canadian Ice Service or Int Ice patrol	120/576	1200	
------/1520	Ice conditions chart West Baltic Sea or special area	120/576	0900	
------/1540	Ice conditions chart European Arctic Sea or special area	120/576	0900	

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

CALL SIGNS	FREQUENCIES	TIMES	EMISSION	POWER
GYA	2618.5 kHz	2000-0600 UTC	J3C	10 kW
GYA	4610 kHz	ALL BROADCAST TIMES	J3C	10 kW
GYA	8040 kHz	ALL BROADCAST TIMES	J3C	10 kW
GYA	11086.5 ? kHz	0600-2000 UTC	J3C	10 kW

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

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

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

APPENDICIES

NATIONAL WEATHER SERVICE MARINE PRODUCTS VIA INTERNET INCLUDING RADIOFAX

The Internet is not part of the National Weather Service's operational data stream and should never be relied upon as a means to obtain the latest forecast and warning data. Become familiar with and use other means such as NOAA Weather Radio to obtain the latest forecasts and warnings. Please read our ***disclaimer*** ***http://www.nws.noaa.gov/disclaimer.php***.

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

Marine Text Forecasts and Products

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

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

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

Marine Graphic Forecasts and Products

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

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

Satellite and RADAR Imagery

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

Ice Analysis, Forecasts and Iceberg Reports

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

Computer Generated Model Guidance

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

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

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

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

Marine Climatological Information

User-friendly climatological information for marine coastal areas may be found in ***Appendix B of the National Ocean Service's Coast Pilot's, volumes 1-9*** ***http://chartmaker.ncd.noaa.gov/nsd/coastpilot.htm***. These appendices, which were prepared by the ***National Climatic Data Center*** ***http://lwf.ncdc.noaa.gov/oa/ncdc.html***, also contain other useful meteorological information such as conversion tables. Visit their webpage for further information.

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

Foreign Marine Forecasts

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

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

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

WEBCAMS

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

Buoy and Other Real-Time Observations

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

NOAA's NCEP Central Operations ***MADIS Database*** (https://madis.ncep.noaa.gov/) offers ***a Display of Surface Data*** (https://madis-data.ncep.noaa.gov/MadisSurface/) from several government, commercial and voluntarily operated mesonets as well as observations of those of the ***Voluntary Observing Ship (VOS) Program*** ***http://www.vos.noaa.gov/*** and data buoys. A variety of marine observations may also be viewed on the ***National Ocean Service's nowCOAST Web Portal (BETA)*** ***http://co-ops.nos.noaa.gov/nowcoast.html***.

For mariners with a low speed Internet connection..... The latest buoy or C-MAN data may be retrieved via the Internet as in the following example where 44017 refers to buoy #44017 and SJSN4 refers to non-floating observation platform SJSN4.

http://www.ndbc.noaa.gov/mini_station_page.php?station=44017
http://www.ndbc.noaa.gov/mini_station_page.php?station=SJSN4

Tide Predictions, Observations and Storm Surge Forecasts

Near real-time Water Level Observations, and Predicted Tide Information for the calendar year **http://tidesandcurrents.noaa.gov/**, are available from the ***National Ocean Service*** ***http://oceanservice.noaa.gov/*** Read the ***NOS Tides FAQ*** ***http://tidesandcurrents.noaa.gov/faq2.html*** for further information on obtaining NOS tides and tidal current data. Caution is urged in using tide data made available at University and other webpages. This information may not be based on current government data and be of unknown quality.

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

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

For Emergency Responders and Planners

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

Historic Weather Forecasts, Satellite Images and Oceanographic Data

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

Observations from Mariners

All NWS marine forecasts rely heavily on the ***Voluntary Observing Ship (VOS)*** ***http://www.vos.noaa.gov/***program for obtaining meteorological observations. Ship observations may also be found on ***National Data Buoy Center - Observations Search*** (http://www.ndbc.noaa.gov/os.shtml), ***National Data Buoy Center - Ships Observation Report*** ***(http://www.ndbc.noaa.gov/ship_obs.php)***, CoolWX, SailWX.info, and Oceanweather, webpages.

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

Marine Webpages

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

Marine Weather Publications On the Web

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

Internet Access for Mariners

Internet at sea can be problematic unless you stay within cellular telephone range of shore. "Marine WIFI" technology is rapidly becoming popular at marinas and in favorite harbor areas. Satellite services including Inmarsat, Iridium, Globalstar, Thuraya, Emsat, ACeS, tracNet/DirecPC, Boatracs, Orbcomm , and MTN are available, however, costs are generally greater. Several companies offer e-mail services designed to optimize satellite connectivity including MAILASAIL, OCENS, UUPLUS and XGate . Full Internet access is often available if you have a satellite terminal onboard, but presently unless you restrict your use to e-mail messages, costs can be high. A number of satellite services such as Inmarsat-C offer e-mail messaging services only and provide no access to the World Wide Web. Several transmission and data compression schemes are available and in development to make the Web more accessible to the mariner. There are also several public FTP-to-EMAIL and WWW-to-EMAIL servers available to allow Internet access for users who do not have direct or cost effective access to the World Wide Web but who are equipped with an e-mail system. **CLICK HERE** for information. Low cost, worldwide, access to the World Wide Web via satellite should be available to the mariner in the next five to ten years.

If you have an HF marine radio, E-mail service is available from companies such as Sailmail, CruiseEmail, Global Marine Networks, Kielradio, Globe Wireless and Shipcomm LLC (WLO/KLB). E-mail can be accomplished at no cost using amateur radio.

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

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

A low bandwidth webpage containing marine and public forecasts intended for mobile devices may be found at: **mobile.weather.gov** (includes a capability to view the forecast for any zip/city and radar images).

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

National Weather Service Products Available Via E-MAIL (FTPMAIL

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

Internet Broadcasts

Marine weather data may also be obtained via the Internet using EMWIN **http://www.nws.noaa.gov/om/marine/emwin.htm** or WxWire (***http://www.nws.noaa.gov/om/marine/wxwire.htm***)

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

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

Change Notices

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

Directories of NWS Marine Forecasts

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

http://tgftp.nws.noaa.gov/data/forecasts/marine/
ftp://tgftp.nws.noaa.gov/data/forecasts/marine/
http://tgftp.nws.noaa.gov/data/raw/
ftp://tgftp.nws.noaa.gov/data/raw/
http://www.ndbc.noaa.gov/data/Forecasts/
http://tgftp.nws.noaa.gov/data/
http://forecast.weather.gov/product_types.php
http://www.weather.gov/view/validProds.php

Many National Weather Service Weather Charts may be found in the following directories, indexed by WMO ID or other identifier.
http://tgftp.nws.noaa.gov/fax/
ftp://tgftp.nws.noaa.gov/fax/

NATIONAL WEATHER SERVICE INTERNET SITES

NWS Homepage	http://www.nws.noaa.gov
NWS Marine Forecasts	http://www.weather.gov/marine
NWS Marine Text Products	http://www.nws.noaa.gov/om/marine/home.htm#text
NWS Marine Radiofax Products	http://tgftp.nws.noaa.gov/fax/marine.shtml
NWS Voluntary Observing Ship Program	http://www.vos.noaa.gov

U.S. NAVY AND OTHER WEATHER INTERNET SITES

See these sites for further links

Naval Oceanography Portal	http://www.usno.navy.mil/
International Ice patrol	http://www.navcen.uscg.gov/?pageName=IIPHome
National Ice Center	http://www.natice.noaa.gov
WMO Homepage	http://www.wmo.ch
JCOMM GMDSS	http://weather.gmdss.org/

USCG Maritime Telecommunications
http://www.navcen.uscg.gov/?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*** ***http://www.nws.noaa.gov/disclaimer.php***.

FTPMAIL help file
****
*   WARNING
*

*   This is a United States Government Computer. Use of
*   this computer for purposes for which authorization
*   has not been extended is a violation of federal law.
*
*   (Reference Public Law 99-474)

*   For technical assistance with FTPMAIL contact:

*
*   marine.weather@noaa.gov   301-427-9390
*
****

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

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

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

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

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

-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.

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

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

NOTICE - Check time and date of forecasts. Downloaded data may not represent the latest forecast. The Internet is not part of the National Weather Service's operational data stream and should never be relied upon as a means to obtain the latest forecast and warning data. Become familiar with and use other means such as NOAA Weather Radio to obtain the latest forecasts and warnings. Please read our disclaimer at http://www.nws.noaa.gov/disclaimer.php

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

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

Users should be familiar with sending and receiving messages and attachments with their particular e-mail system. Attachments are received in UUencoded form. The majority of modern e-mail systems handle the conversion automatically, other users will need to run the UUdecode program for their particular system. If your e-mail system does not UUENCODE automatically, you will get back a bunch of gibberish starting with something like "begin 600 PWAE98.TIF" See your system administrator if you have any questions on this topic. UUdecode freeware and shareware may also be found on the Web, but the easier solution is to try a different e-mail system if that option is open to you. The UUencoding process can add 0 to >100% overhead depending on your system and the type of file.

Files 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 http://weather.noaa.gov/fax/rfaxtif.txt

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

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

To use FTPMAIL:
-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 requestor

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

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

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

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

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

     Connect to default_site (tgftp.nws.noaa.gov) and send back public
     land zone forecast MDZ009 to e-mail address of requestor.
     (Contact your local forecast office to identify the public
     forecast zone number for your county, known as the UGC code)
     Zones lists by State may also be found at http://alerts.weather.gov/

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

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

```
open
cd fax
get ftpcmd.txt      (List of FTPMAIL commands)
get rfaxtif.txt     (TIFF suggestions)
get rfaxatl.txt     (Atlantic radiofax file directory)
get rfaxpac.txt     (Pacific radiofax file directory)
get rfaxmex.txt     (Gulf of Mexico and Trop Atl radiofax file dir)
get rfaxak.txt      (Alaska radiofax and ice file directory)
get rfaxhi.txt      (Hawaii radiofax file directory)
get otherfax.txt    (Foreign charts file directory)
get marine1.txt     (Highseas,Offshore,Open Lakes,NAVTEX text file dir)
get marine2.txt     (Hurricane text file directory)
get marine3.txt     (Coastal forecasts text file directory)
get marine4.txt     (Offshore forecasts by zone directory)
get marine5.txt     (Atlantic coastal forecasts by zone directory)
get marine6.txt     (Pacific coastal forecasts by zone directory)
get marine7.txt     (Gulf of Mexico coastal forecasts by zone dir)
get marine8.txt     (Great Lakes coastal forecasts by zone directory)
get marine9.txt     (Alaska coastal forecasts by zone directory)
get marine10.txt    (Hawaii&Trust coastal forecasts by zone directory)
get uk.txt          (UK marine forecasts from Bracknell directory)
get canada.txt      (Canadian marine text forecast directory)
get tsunami.txt     (Tsunami products directory)
get buoydata.txt    (Buoy and C-MAN station observations directory)
get robots.txt      (Marine forecasts and info via e-mail systems)
quit
```

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

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

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

```
Send an e-mail to:      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
```

**********SPECIAL NOTES**********

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

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

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

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

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

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

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

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

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

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

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

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

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

****

An FAQ webpage describing several public and commercial FTP-to-EMAIL

and WWW-to-EMAIL servers may be found at:
www.faqs.org/faqs/internet-services/access-via-email/

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

http://www.nws.noaa.gov	NWS Homepage
http://www.nws.noaa.gov/om/marine/home.htm	NWS Marine Page
http://www.nws.noaa.gov/om/marine/cell/marine.htm	Cell Page
mobile.weather.gov	Mobile Page

Author: Marine, Tropical, and Tsunami Services Branch, W/AFS26
National Weather Service
Last Modified Apr 01, 2015
Document URL: http://tgftp.nws.noaa.gov/fax/ftpmail.txt
ftp://tgftp.nws.noaa.gov/fax/ftpmail.txt

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

**** IMPORTANT NOTICES ****

Effective September 07, 2016, the address of the FTPMAIL service changed
from NWS.FTPMail.OPS@noaa.gov to NWS.FTPMail.OPS@noaa.gov.
If you restrict incoming e-mail as a means of preventing spam, you must
configure your e-mail system to allow mail from NWS.FTPMail.OPS@noaa.gov

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

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

FTP's files and sends them back via electronic mail

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

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

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

Example scripts are:

```
reply-to lmjm@server.big.ac.uk
open
dir
quit
```
Connect to default_site (tgftp.nws.noaa.gov) and send back the
contents of the top level directory to lmjm@server.big.ac.uk

```
open
```

```
cd fax
get PWAG01.TIF
quit
     Connect to default_site (tgftp.nws.noaa.gov) and send back the
     chart file PWAG01.TIF to e-mail address of requestor

>>Valid commands to the ftpmail gateway are:


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

>>Followed by one of:

help                     Just send back help

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

open [site [user [pass]]]
                         Site to ftp to.  Default is:

                         default_site anonymous reply-to-address.


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

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

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

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

get pathname            Get a file and email it back.

compress                  Compress files/dir-listings before emailing back

gzip                         Gzip files/dir-listings before emailing back

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

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

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

force mime	As mime but force text files to be sent as application/octet-stream
no [compress|gzip|uuencode|btoa|mime]	Turn the option off.
size num[K|M]	Set the max size a file can be before it is split up and emailed back in parts to the given number of Kilo or Mega bytes. This is limited to 275KB. Default is 275KB.
mode binary	Change the mode selected for the get
mode ascii	command. Defaults to binary.
quit	End of input - ignore any following lines.

Author: Marine, Tropical, and Tsunami Services Branch, W/AFS26
National Weather Service
Last Modified Sep 12, 2008
Document URL: http://tgftp.nws.noaa.gov/fax/ftpcmd.txt
ftp://tgftp.nws.noaa.gov/fax/ftpcmd.txt

NATIONAL WEATHER SERVICE RADIOFAX PRODUCTS
for the Western Atlantic Ocean

**** IMPORTANT NOTICES ****

Effective September 07, 2016, the address of the FTPMAIL service changed from ftpmail@ftpmail.nws,noaa.gov to NWS.FTPMail.OPS@noaa.gov.
If you restrict incoming e-mail as a means of preventing spam, you must configure your e-mail system to allow mail from NWS.FTPMail.OPS@noaa.gov

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

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

-In plain text format-

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

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

****

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

Assigned frequencies 4235.0, 6340.5, 9110, 12750 kHz

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

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

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

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

SURFACE CHARTS	
00Z Preliminary Surface Chart Analysis 45W-85W N. Hemisphere	PYAA10.TIF
06Z Preliminary Surface Chart Analysis 45W-85W N. Hemisphere	PYAB01.TIF
12Z Preliminary Surface Chart Analysis 45W-85W N. Hemisphere	PYAC01.TIF
18Z Preliminary Surface Chart Analysis 45W-85W N. Hemisphere	PYAD01.TIF
Preliminary Surface Chart Analysis (Most Current)	PYAD10.TIF
00Z Surface Analysis Chart, Part 1, 10E-45W N. Hemisphere	PYAA01.TIF
00Z Surface Analysis Chart, Part 2, 40W-95W N. Hemisphere	PYAA02.TIF
06Z Surface Analysis Chart, Part 1, 10E-45W N. Hemisphere	PYAA03.TIF
06Z Surface Analysis Chart, Part 2, 40W-95W N. Hemisphere	PYAA04.TIF
12Z Surface Analysis Chart, Part 1, 10E-45W N. Hemisphere	PYAA05.TIF
12Z Surface Analysis Chart, Part 2, 40W-95W N. Hemisphere	PYAA06.TIF
18Z Surface Analysis Chart, Part 1, 10E-45W N. Hemisphere	PYAA07.TIF
18Z Surface Analysis Chart, Part 2, 40W-95W N. Hemisphere	PYAA08.TIF
Surface Analysis Chart, Part 1, (Most Current)	PYAA11.TIF
Surface Analysis Chart, Part 2, (Most Current)	PYAA12.TIF
24HR Surface Chart VT00Z Forecast 40W-98W Northern Hemisphere	PPAE00.TIF
24HR Surface Chart VT12Z Forecast 40W-98W Northern Hemisphere	PPAE01.TIF
24HR Surface Chart Forecast (Most Current)	PPAE10.TIF
48HR Surface Chart VT00Z Forecast 10E-95W Northern Hemisphere	QDTM85.TIF
48HR Surface Chart VT12Z Forecast 10E-95W Northern Hemisphere	QDTM86.TIF
48HR Surface Chart Forecast (Most Current)	QDTM10.TIF

96HR Surface Chart VT12Z Forecast 10E-95W Northern Hemisphere PWAM99.TIF

UPPER AIR CHARTS

00Z 500 mb Surface Chart Analysis 10E-95W Northern Hemisphere PPAA50.TIF
12Z 500 mb Surface Chart Analysis 10E-95W Northern Hemisphere PPAA51.TIF
500 mb Surface Chart Analysis (Most Current) PPAA10.TIF
24HR 500 mb Chart VT00Z Forecast 10E-95W Northern Hemisphere PPAE50.TIF
24HR 500 mb Chart VT12Z Forecast 10E-95W Northern Hemisphere PPAE51.TIF
24HR 500 mb Chart Forecast (Most Current) PPAE11.TIF
36HR 500 mb Chart VT00Z Forecast 10E-95W Northern Hemisphere PPAG50.TIF
36HR 500 mb Chart VT12Z Forecast 10E-95W Northern Hemisphere PPAG51.TIF
36HR 500 mb Chart Forecast (Most Current) PPAG11.TIF
48HR 500 mb Chart VT00Z Forecast 10E-95W Northern Hemisphere PPAI50.TIF
48HR 500 mb Chart VT12Z Forecast 10E-95W Northern Hemisphere PPAI51.TIF
48HR 500 mb Chart Forecast (Most Current) PPAI10.TIF
96HR 500 mb Chart VT12Z Forecast 10E-95W Northern Hemisphere PPAM50.TIF

TROPICAL CYCLONE CHARTS

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

SATELLITE IMAGERY

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

ICE CHARTS

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

SCHEDULE INFORMATION

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

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

Tropical cyclone charts also broadcast from New Orleans, LA

If you have access to the World Wide Web be certain to check out

the following webpages. See these pages for further links.

http://www.nws.noaa.gov	NWS Homepage
http://www.nws.noaa.gov/om/marine/home.htm	NWS Marine Page
http://www.nws.noaa.gov/om/marine/cell/marine.htm	Cell Page
mobile.weather.gov	Mobile Page

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: http://tgftp.nws.noaa.gov/fax/rfaxatl.txt
ftp://tgftp.nws.noaa.gov/fax/rfaxatl.txt

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

**** IMPORTANT NOTICES ****

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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

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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.

****

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

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

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

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

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

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

TROPICAL WIND/WAVE CHARTS	
Tropical Sea State Analysis VT00Z 20S-30N, E of 145W	PKFA88.TIF
Tropical Sea State Analysis VT12Z 20S-30N, E of 145W	PKFA89.TIF
Tropical Sea State Analysis (Most Current)	PKFA10.TIF
@24HR Wind/Wave Forecast VT00Z 20S-30N, E of 145W	PWFE01.TIF
@24HR Wind/Wave Forecast VT12Z 20S-30N, E of 145W	PWFE03.TIF
@24HR Wind/Wave Forecast (Most Current)	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

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

TROPICAL SURFACE CHARTS

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

UPPER AIR CHARTS

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

TROPICAL CYCLONE CHARTS

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

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

SEA SURFACE TEMPERATURES

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

SATELLITE IMAGERY

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

SCHEDULE INFORMATION

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

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

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

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

http://www.nws.noaa.gov/om/marine/cell/marine.htm Cell Page
mobile.weather.gov Mobile Page

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: http://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

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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.

****

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.

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.TIF files now also available as .gif files

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Example using FTPMAIL:

-In plain text format-

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

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

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

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

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

TROPICAL CYCLONE CHARTS

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

HIGH SEAS FORECASTS

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

SATELLITE IMAGERY

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

SCHEDULE INFORMATION

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

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

Tropical cyclone charts also broadcast from Boston, MA

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the following webpages. See these pages for further links.

http://www.nws.noaa.gov	NWS Homepage
http://www.nws.noaa.gov/om/marine/home.htm	NWS Marine Page
http://www.nws.noaa.gov/om/marine/cell/marine.htm	Cell Page
mobile.weather.gov	Mobile Page

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

NATIONAL WEATHER SERVICE RADIOFAX PRODUCTS
for the Northeast and Eastern Pacific

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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.

****

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

Assigned frequencies 2054, 4298, 8459, 12410.6 kHz

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

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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: http://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

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

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

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

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

SEA SURFACE TEMPERATURES

Sea Surface Temperature Analysis	40N-60N,125W - 160E	PTCA88.TIF

SATELLITE IMAGERY

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

ICE CHARTS

Sea Ice Analysis	PTCA89.TIF
5 Day Sea Ice Forecast	PTCO89.TIF
Cook Inlet Sea Ice Analysis	PTCA87.TIF

SCHEDULE INFORMATION and MISCELLANEOUS

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

xxxxxx.xxx = Currently unavailable

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

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

http://www.nws.noaa.gov	NWS Homepage
http://www.nws.noaa.gov/om/marine/home.htm	NWS Marine Page
http://www.nws.noaa.gov/om/marine/cell/marine.htm	Cell Page
mobile.weather.gov	Mobile Page

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: http://tgftp.nws.noaa.gov/fax/rfaxak.txt
ftp://tgftp.nws.noaa.gov/fax/rfaxak.txt

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

**** 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 http://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: http://tgftp.nws.noaa.gov/fax/ftpmail.txt

xxxxxx (Not yet available from these directories)

.TIF files now also available as .gif files

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

Example using FTPMAIL:

-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

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

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

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

WIND/WAVE CHARTS - NORTH PACIFIC	
00Z Sea State Analysis 20N-70N, 115W-135E	PJBA99.TIF
@00Z Wind/Wave Analysis 18N-62N, E OF 157W	PWBA88.TIF
@06Z Wind/Wave Analysis 18N-62N, E OF 157W	PWBB88.TIF

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

SURFACE CHARTS - CENTRAL PACIFIC

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

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

SURFACE CHARTS - SE PACIFIC

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

SURFACE CHARTS - NORTH PACIFIC

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

TROPICAL CYCLONE CHARTS - PACIFIC

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

SEA SURFACE TEMPERATURE CHARTS

Pacific SST Chart 55N-EQ, 110W-160E	PTFA88.TIF

SATELLITE IMAGERY (IR)

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

SCHEDULE INFORMATION

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

@ Not transmitted via Honolulu radiofax but listed here for convenience

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

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

http://www.nws.noaa.gov	NWS Homepage
http://www.nws.noaa.gov/om/marine/home.htm	NWS Marine Page
http://www.nws.noaa.gov/om/marine/cell/marine.htm	Cell Page
mobile.weather.gov	Mobile Page

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: http://tgftp.nws.noaa.gov/fax/rfaxhi.txt
ftp://tgftp.nws.noaa.gov/fax/rfaxhi.txt

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

**** IMPORTANT NOTICES ****

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

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

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

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

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

****

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 forecasts
                        cd marine
                        cd high_seas
                        get north_pacific.txt
                        get north_atlantic.txt
                        quit
```

HIGH SEAS FORECASTS

These files may be found in directories:
ftp://tgftp.nws.noaa.gov/data/forecasts/marine/high_seas/
http://tgftp.nws.noaa.gov/data/forecasts/marine/high_seas/

PRODUCT DESCRIPTION	FILE NAME
Northwest Atlantic Highseas (GMDSS Area IV)	north_atlantic.txt
Northeast Pacific Highseas (GMDSS Area XII)	north_pacific.txt
Peru Highseas (GMDSS Area XVI)	east_pacific_3.txt

25S-0N, 160E-120W South Central Pacific	south_hawaii.txt
30-60N, east of 160 E (p/o NE Pacific)	east_pacific_1.txt
0-30N, E of 140W (p/o NE Pacific)	east_pacific_2.txt
0-30N, 160E-140W (p/o NE Pacific)	north_hawaii.txt

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

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 ag
                        get agnt40.kWnm.mim.atn.txt
                        quit
```

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

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

OFFSHORE FORECASTS

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

Example:
-In plain text format-

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

PRODUCT DESCRIPTION	FILE NAME
New England	fznt21.kWbc.off.nt1.txt
Short version for radio broadcast	fznt33.kWbc.off.n31.txt
Mid-Atlantic	fznt22.kWbc.off.nt2.txt
Short version for radio broadcast	fznt34.kWbc.off.n32.txt
SW North Atlantic, Caribbean	fznt23.knhc.off.nt3.txt

Short version for radio broadcast	fznt31.knhc.off.n20.txt
Gulf of Mexico	fznt24.knhc.off.nt4.txt
Short version for radio broadcast*	fznt32.knhc.off.n21.txt
Washington, Oregon	fzpn25.kWbc.off.pz5.txt
Short version for radio broadcast	fzpn35.kWbc.off.n35.txt
California	fzpn26.kWbc.off.pz6.txt
Short version for radio broadcast	fzpn36.kWbc.off.n36.txt
Eastern Gulf of Alaska	fzak67.pajk.off.ajk.txt
Western Gulf of Alaska	fzak61.pafc.off.aer.txt
Bering Sea	fzak62.pafc.off.alu.txt
U.S. Arctic (Experimental)	fzak69.pafg.off.afg.txt
Hawaii	fzhw60.phfo.off.hfo.txt

NAVTEX FORECASTS

For offshore areas, NAVTEX forecasts can also be utililized 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/
http://tgftp.nws.noaa.gov/data/raw/fz/

Example:
-In plain text format-

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

NAVTEX FORECASTS

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

Example:

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

PRODUCT DESCRIPTION	FILE NAME
NAVTEX Boston, MA	fznt23.kWnm.off.n01.txt
NAVTEX Chesapeake, VA	fznt24.kWnm.off.n02.txt
NAVTEX Charleston, SC	fznt25.kWnm.off.n03.txt
NAVTEX Miami, FL	fznt25.knhc.off.n04.txt

NAVTEX San Juan, PR	fznt26.knhc.off.n05.txt
NAVTEX New Orleans, LA	fznt27.knhc.off.n06.txt
NAVTEX Astoria, OR	fzpn24.kWnm.off.n09.txt
NAVTEX Pt. Reyes, CA	fzpn23.kWnm.off.n08.txt
NAVTEX Cambria, CA	fzpn22.kWnm.off.n07.txt
NAVTEX Honolulu, HI	fzhw61.phfo.off.n10.txt
NAVTEX Kodiak,(SE) AK	fzak61.pajk.off.n11.txt
NAVTEX Kodiak,(N Gulf) AK	fzak63.pafc.off.n12.txt
NAVTEX Kodiak,(W) AK	fzak64.pafc.off.n13.txt
NAVTEX Kodiak,(NW and Artic) AK	fzak69.pafg.off.n14.txt

OPEN LAKE FORECASTS

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

Example:
-In plain text format-

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

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

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

http://www.nws.noaa.gov	NWS Homepage
http://www.nws.noaa.gov/om/marine/home.htm	NWS Marine Page
http://www.nws.noaa.gov/om/marine/cell/marine.htm	Cell Page
mobile.weather.gov	Mobile Page

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: http://tgftp.nws.noaa.gov/fax/marine1.txt
ftp://tgftp.nws.noaa.gov/fax/marine1.txt

NATIONAL WEATHER SERVICE MARINE TEXT PRODUCTS
HURRICANE PRODUCTS

**** IMPORTANT NOTICES ****

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

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

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

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

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

****

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

-In plain text format-
Send an e-mail to: NWS.FTPMail.OPS@noaa.gov
Subject Line: Put anything you like
Body: open
cd data
cd hurricane_products
cd atlantic
cd weather
get outlook.txt
cd /data
cd hurricane_products
cd atlantic
cd storm_2
get technical_advisory.txt
quit

ATLANTIC HURRICANE PRODUCTS

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

PRODUCT DESCRIPTION FILE NAME

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

*Recommended products for mariners

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

EASTERN PACIFIC HURRICANE PRODUCTS

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

PRODUCT DESCRIPTION	FILE NAME
Tropical WX Outlook	/weather/outlook.txt
Tropical WX Discussion	/weather/discussion.txt
Tropical WX Summary	/weather/summary.txt
Tropical WX Disturbance Stmt	/weather/advisory.txt
Tropical Cyclone Update (Storm #1)	/storm_1/update.txt
Tropical Cyclone Update (Storm #2)	/storm_2/update.txt
Tropical Cyclone Update (Storm #3)	/storm_3/update.txt
Tropical Cyclone Update (Storm #4)	/storm_4/update.txt
Tropical Cyclone Update (Storm #5)	/storm_5/update.txt
Tropical Cyclone Discussion (Storm #1)	/storm_1/discussion.txt

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

*Recommended products for mariners

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

CENTRAL PACIFIC HURRICANE PRODUCTS

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

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

RECON PLAN TBD

*Recommended products for mariners

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

WESTERN PACIFIC HURRICANE PRODUCTS (NOAA)

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

Example:

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

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

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

WESTERN PACIFIC HURRICANE PRODUCTS (NAVY)

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

Example:

-In plain text format-
Send an e-mail to: NWS.FTPMail.OPS@noaa.gov
Subject Line: Put anything you like
Body: open

```
cd data
cd raw
cd wt
get wtpn21.pgtw..txt
quit
```

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

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

http://www.nws.noaa.gov	NWS Homepage
http://www.nws.noaa.gov/om/marine/home.htm	NWS Marine Page
http://www.nws.noaa.gov/om/marine/cell/marine.htm	Cell Page
mobile.weather.gov	Mobile Page

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: http://tgftp.nws.noaa.gov/fax/marine2.txt
ftp://tgftp.nws.noaa.gov/fax/marine2.txt

NATIONAL WEATHER SERVICE MARINE TEXT PRODUCTS
COASTAL and NEARSHORE MARINE FORECASTS

**** IMPORTANT NOTICES ****

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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

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

PRODUCT DESCRIPTION	FILE NAME
Caribou, ME	fzus51.kcar.cwf.car.txt
Gray, ME	fzus51.kgyx.cwf.gyx.txt
Taunton, MA	fzus51.kbox.cwf.box.txt
New York, NY	fzus51.kokx.cwf.okx.txt

Philadelphia, PA	fzus51.kphi.cwf.phi.txt
Washington, DC	fzus51.klwx.cwf.lwx.txt
Wakefield, VA	fzus51.kakq.cwf.akq.txt
Newport/Morehead City, NC	fzus52.kmhx.cwf.mhx.txt
Wilmington, NC	fzus52.kilm.cwf.ilm.txt
Charleston, SC	fzus52.kchs.cwf.chs.txt
Jacksonville, FL	fzus52.kjax.cwf.jax.txt
Melbourne, FL	fzus52.kmlb.cwf.mlb.txt
Miami, FL	fzus52.kmfl.cwf.mfl.txt
Key West, FL	fzus52.kkey.cwf.key.txt
San Juan, PR	fzca52.tjsj.cwf.sju.txt
San Juan, PR (Spanish)	fzca52.tjsj.cwf.spn.txt
Tampa, FL	fzus52.ktbw.cwf.tbw.txt
Tallahasee, FL	fzus52.ktae.cwf.tae.txt
Mobile, AL	fzus54.kmob.cwf.mob.txt
New Orleans, LA	fzus54.klix.cwf.lix.txt
Lake Charles, LA	fzus54.klch.cwf.lch.txt
Houston/Galveston, TX	fzus54.khgx.cwf.hgx.txt
Corpus Christi, TX	fzus54.kcrp.cwf.crp.txt
Brownsville, TX	fzus54.kbro.cwf.bro.txt
Seattle, WA	fzus56.ksew.cwf.sew.txt
Portland, OR	fzus56.kpqr.cwf.pqr.txt
Medford, OR	fzus56.kmfr.cwf.mfr.txt
Eureka, CA	fzus56.keka.cwf.eka.tx
San Francisco, CA	fzus56.kmtr.cwf.mtr.txt
Los Angeles, CA	fzus56.klox.cwf.lox.txt
San Diego, CA	fzus56.ksgx.cwf.sgx.txt
Hawaii	fzhw50.phfo.cwf.hfo.txt
Hawaii (Generalized)	fzhw50.phfo.cwf.hfo.txt
Marianas (Guam)	fzmy50.pgum.cwf.my.txt
East Micronesia	fzpq51.pgum.cwf.pq1.txt
West Micronesia	fzpq52.pgum.cwf.pq2.txt
Samoa	fzzs50.nstu.cwf.ppg.txt
Buffalo,NY	fzus51.kbuf.nsh.buf.txt
Cleveland,OH	fzus51.kcle.nsh.cle.txt
Detroit/Pontiac,MI	fzus53.kdtx.nsh.dtx.txt
Gaylord, MI	fzus53.kapx.nsh.apx.txt
Grand Rapids,MI	fzus53.kgrr.nsh.grr.txt
Northern Indiana, IN	fzus53.kiwx.nsh.ixw.txt
Chicago,IL	fzus53.klot.nsh.lot.txt
Milwaukee/Sullivan,WI	fzus53.kmkx.nsh.mkx.txt
Green Bay,WI	fzus53.kgrb.nsh.grb.txt
Marquette,MI	fzus53.kmqt.nsh.mqt.txt
Duluth,MN	fzus53.kdlh.nsh.dlh.txt
AK, SE Inner Coastal Waters	fzak51.pajk.cwf.ajk.txt
AK, SE Outside Coastal Waters	fzak52.pajk.cwf.aeg.txt
AK, Yakutat Bay	fzak57.paya.cwf.yak.txt
AK, North Gulf Coast and Kodiak	fzak51.pafc.cwf.aer.txt
AK, Valdez Arm and Narrows	fzak58.pavw.cwf.vws.txt
AK, Chiniak and Marmot Bays	fzak58.padq.cwf.adq.txt
Southwest AK and the Aleutians	fzak52.pafc.cwf.alu.txt
Western AK	fzak52.pafg.cwf.wcz.txt
Arctic Coast	fzak51.pafg.cwf.nsb.txt
Sea Ice Advisory West & Arctic AK	fzak80.pafc.ice.afc.txt

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

http://www.nws.noaa.gov	NWS Homepage
http://www.nws.noaa.gov/om/marine/home.htm	NWS Marine Page
http://www.nws.noaa.gov/om/marine/cell/marine.htm	Cell Page
mobile.weather.gov	Mobile Page

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: http://tgftp.nws.noaa.gov/fax/marine3.txt
ftp://tgftp.nws.noaa.gov/fax/marine3.txt

Marine Forecasts and Related Information Available via E-mail

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

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

This document (http://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 http://tgftp.nws.noaa.gov/fax/ftpmail.txt

-In plain text format-
Send an e-mail to: NWS.FTPMail.OPS@noaa.gov
Subject line: Put anything you like

Body: help

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

(1) To retrieve Wave Watch III
(http://polar.ncep.noaa.gov/waves/product_table.shtml?-multi_1-)
and other forecasts via e-mail, use one of the www-to-email systems
such as SAILDOCS or OTHERS described below. Be aware computer generated
products from forecast models are not reviewed by forecasters and are
therefore subject to error. E.G. per the Wave Watch III webpage:

URLs =
http://polar.ncep.noaa.gov/waves/WEB_P/wwww.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 wwww =

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

where xxxx =

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

where "yyyy" =

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

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

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

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

URLs =
http://polar.ncep.noaa.gov/ofs/aofs_images/large/aofs_zzzz_yyyy_xxxx.png
e.g.
http://polar.ncep.noaa.gov/ofs/aofs_images/large/aofs_cur_f120_wnatlzoom.png

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

where yyyy =
"nowcast", "f024", "f048", "f072", "f096" "f120" or 144"

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

**** Important Note****
The Atlantic RTOFS model data immediately above is under an on-going operational upgrade. Use the Global RTOFS model immediatrely 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

>>>>University of Illinois Listserver<<<<
The University of Illinois at Urbana-Champaign operates an e-mail listserver of which two Lists, WX-ATLAN, and WX-TROPL are of special interest to mariners who do not have direct access to the World Wide Web but who are equipped with an e-mail system. These Lists provide an automated means to receive NWS hurricane (and some marine) forecast products via e-mail. However, performance may vary and receipt cannot be guaranteed. To get started in using the University of Illinois Listserver, follow these simple directions to obtain further information, or see: http://tgftp.nws.noaa.gov/fax/uiuclist.txt
See also: https://lists.illinois.edu/lists/info/wx-atlan
and https://lists.illinois.edu/lists/info/wx-tropl

-In plain text format-

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

>>>>Hurricane Watch Net YahooGroup Listserver<<<<
This service is no longer operational

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

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

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

>>>>ExpressWeather - MailASail's Free Weather Service<<<<
ExpressWeather is a free, simple system to offer popular weather forecasts and charts by email. It aims to provide a deliberately limited subset of all the weather available, and only to provide the most useful forecasts

in an easy to access format. For details send a blank email with a BLANK subject line to weather@mailasail.com
(Remember that some email programs insert "No subject". This has to be deleted)
or see
http://weather.mailasail.com/Franks-Weather/Text-Chart-Grib-Forecasts-From-Mailasail

Send an e-mail to: weather@mailasail.com
Subject line: Leave blank
Body: Leave blank

>>>>NAVIMAIL<<<<
M�t�o-France's NAVIMAIL system enables you to receive gridded binary (GRIB files) for wind, pressure, waves, sea surface temperature, as well as text bulletins and satellite images. There is a service charge for GRIB data, however, text bulletins and satellite images are available at no charge. To get started in using NAVIMAIL, follow these simple directions to obtain further information, or see:
http://www.meteo.fr/marine/navimail

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

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

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

Privacy Act Advisory

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

To subscribe to U.S. Notices to Mariners by E-mail:
Send an e-mail to: join-ntm@goldweb.nga.mil
Subject line: Leave blank
Body: Leave blank

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

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

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

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

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

Author: Marine, Tropical, and Tsunami Services Branch, W/AFS26
National Weather Service
Last Modified May 08, 2014
Document URL: http://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 - As a result of budgetary constraints, these Marine Service Charts are no longer being updated and may contain outdated information. In some cases the amount and/or types of outdated information has resulted in the unfortunate situation that we can no longer justify continuing to make that chart available. Updated information can most often be found on the Marine Forecasts or NOAA Weather Radio webpages or from your Local Weather Forecast Office.

*** N/A = No longer available**

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

OTHER PUBLICATIONS OF VALUE TO THE MARINER

NOAA PUBLICATIONS

Mariner's Weather Log Magazine
Voluntary Observing Ship Program Brochure (1999) Free[6]
NWS Observing Handbook NO.1 (05/10) Free [6]
Marine Report User Guide
Worldwide Marine Radiofacsimile Broadcast Schedules (Feb 10, 2012)
NOAA Weather Radio Brochure (NOAA/PA 94070, 3/97) Free[2]
NOAA Weather Radio Handout (NOAA/PA 94061, 3/97) Free[2]
A Mariners Guide to Marine Weather Services - Great Lakes (NOAA/PA 98053) Free[2]
A Mariners Guide to Marine Weather Services - Coastal, Offshore, and High Seas (NOAA/PA 98054) Free[2]
Safe Boating Weather Tips (NOAA/PA 94058, 6/98) Free[2]
National Ocean Service Coast Pilot, Volumes 1-9
Directory of Private Weather Services - Free[10]
Hurricane brochures - Free[10]
Tropical Cyclones - A Preparedness Guide - Free[10]
Mariners Guide for Hurricane Awareness in the North Atlantic Basin (2.3 MB PDF)
TsunamiReady Brochure

NOAA SEA GRANT PUBLICATIONS

BOATING SAFETY - THUNDERSTORMS(1978) (NOAA/Sea Grant FLSGP-G-78-002)
Lightning & Boats(1995) (NOAA/Sea Grant NCU-G-95-004)
Lightning & Sailboats (2009)
Lightning & Sailboats (1992) (NOAA/Sea Grant FLSGP-G-92-001)
Beach safety: protect yourself from lightning (NOAA/Sea Grant DELU-G-90-003)
Inadequacies in the US code for lightning protection of boats (NOAA/Sea Grant FLSGP-R-89-018)
BOATING - LIGHTNING PROTECTION (NOAA/Sea Grant FLSGP-G-85-001)
LIGHTNING: GROUNDING YOUR BOAT (NOAA/Sea Grant MDU-G-80-001)
LIGHTNING CONE OF PROTECTION (NOAA/Sea Grant MICHU-G-80-001)
Rip currents! Break the grip of the rip (NOAA/Sea Grant DELU-G-05-005)
STARFISHER'S LAST VOYAGE (NOAA/Sea Grant ORESU-G-75-004)
Safe boating tips (fact sheet) (NOAA/Sea Grant PENN-G-03-002)

FCC PUBLICATIONS

Title 47 Part 80 - Code of Federal Regulations

NGA PUBLICATIONS

NGA Publication 117 "Radio Navigational Aids" (2014)[13]
American Practical Navigator (Bowdich) Publication 9 (2002)[13]
Pilot Chart Atlas, 5 areas [13]
Sailing Directions, 42 volumes[13]
U.S. Notices to Mariners[13]
U.S. Notices to Mariners #1, Special Notice to Mariners Paragraphs

U.S. COAST GUARD PUBLICATIONS

USCG Local Notices to Mariners
USCG Light Lists
USCG Proceedings Magazine
U.S. Coast Guard Rescue Coordination Centers (RCCs)
{24 hour Regional Contacts for Emergencies }

NAVY PUBLICATIONS

U.S. NAVY Hurricane Havens/Heavy Weather Handbooks + more

Non-U.S. GOVERNMENT PUBLICATIONS

Canadian Coast Guard Radio Aids to Marine Navigation (RAMN) - $18.95 Cdn
The British Admiralty List of Radio Signals[8]

Volume 1 Coast Radio Stations (2 parts)
Volume 2 Radio Navigational Aids, Satellite Navigation Systems, Legal Time,
Radio Time Signals & Electronic Fixing Systems
Volume 3 Maritime Safety Information Services (2 Parts)
Volume 4 Meteorological Observation Stations
Volume 5 Global Maritime Distress and Safety Systems
Volume 6 Pilot Services, Vessel Traffic Services & Port Operations (5 parts)

INTERNATIONAL PUBLICATIONS

TSUNAMI The Great Waves - Free [11]
The SafetyNET Users Handbook - Free
International SafetyNET Manual, 2011; IMO-908E[12]
NAVTEX Manual, 2012; IMO-951E[12]
GMDSS Handbook, 2013; IMO-IF970E[12]
SOLAS Consolidated Edition, 2014; IMO-IF110E[12]
SOLAS CHAPTER V SAFETY OF NAVIGATION

WMO Publication 9 - Weather Reporting [15]

Volume A - Observing Stations
Volume C1 - Meteorological Bulletins
Volume C2 - Transmission Programmes (Includes broadcast information)
Volume D - Information for Shipping (Includes broadcast information)

WMO Publication 49 Technical Regulations Basic Documents Volume I – General Meteorological Standards and Recommended Practices 2011/2012
WMO Publication 471 - Guide to Marine Meteorological Services, Third edition: 2001[15]
WMO Publication 558 - Manual On Marine Meteorological Services; 2012 edition[15]
Volume I **Global Aspects**
Volume II **Regional Aspects**

MISCELLANEOUS PUBLICATIONS

Arctic Marine Shipping Assessment 2009 Report

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

6. (Some publications available only to ships participating in U.S. VOS program)
National Weather Service
Voluntary Observing Ship Operations Manager
Paula Rychtar
NDBC Bldg #1100
Stennis Space Center, MS 39529
228-688-1457
228-688-3153 (FAX)
paula.rychtar@noaa.gov
http://www.vos.noaa.gov

8. UK Hydrographic Office
Admiralty Way, Tauton, Somerset
TA1 2DNm United Kingdom
+44(0) 1823 337900 x3333
+44(0) 1823 323753 FAX
info@hydro.gov.uk
http://www.ukho.gov.uk
http://www.admiralty.co.uk/SitePages/Distributors.aspx (Distributors)

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

11. International Tsunami Information Center
737 Bishop St. Suite 2200
Honolulu, HI 96813-3213
808-532-6422
808-532-5576 (FAX)
itic@itic.noaa.gov
http://www.prh.noaa.gov/itic/

12. International Maritime Organization (IMO)
4 Albert Embankment
London SE1 7SR UK
+44 207 7357611
+44 207 5873210 FAX (general enquiries)
+44 207 5873241 FAX (publication sales)
Telex: 23588
info@imo.org
http://www.imo.org

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

15. American Meteorological Society
Attn: WMO Publications Center
45 Beacon Street
Boston, MA 02108 USA
1-617-227-2425 Fax: 1-617-742-8718
wmopubs@ametsoc.org
http://www.wmo.int/e-catalog/index_en.php?SORT=N&q=

Points of Contact

U.S. Port Meteorological Officers

Headquarters

Paula Rychtar
Voluntary Observing Ship Operations Manager
National Data Buoy Center, Building 3203
Stennis Space Center, MS 39529-6000

Tel: 228-688-1457
Fax: 228-688-3923
E-mail: paula.rychtar@noaa.gov

Atlantic Ports

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

Robert Niemeyer, PMO Jacksonville, Florida
National Weather Service, NOAA
13701 Fang Road Jacksonville, FL 32218-7933
Tel: 904-607-3219
Fax: 904-741-0078
E-mail: rob.niemeyer@noaa.gov

Tim Kenefick, PMO Charleston, South Carolina
NOAA Coastal Services Center
2234 South Hobson Avenue
Charleston, SC 29405-2413
Tel: 843-709-0102
Fax: 843-740-1224
E-mail: timothy.kenefick@noaa.gov

Peter Gibino, PMO Norfolk, Virginia
National Weather Service, NOAA
P. O. Box 1492
Grafton, VA 23692
Tel: 757-617-0897
E-mail: peter.gibino@noaa.gov

Lori Evans, PMO Baltimore, Maryland
National Weather Service, NOAA
P. O. Box 3667 Frederick, MD 21705-3667
For UPS / FEDEX delivery:
5838 Shookstown, Road
Frederick, MD 21702
Tel: 443-642-0760
E-mail: lori.evans@noaa.gov

Jim Luciani, PMO New York, New York
New York/New Jersey
National Weather Service, NOAA
P. O. Box 366
Flemington, NJ 08822
Tel: 908-217-3477
E-mail: james.luciani@noaa.gov

Great Lakes Ports

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

Gulf of Mexico Ports

VACANT
PMO New Orleans, Louisiana
62300 Airport Rd.
Slidell, LA 70460-5243
Tel:
E-mail:

Suite 202
Dickinson, TX 77539
Tel: 281-534-2640 Ext. 277
Fax: 281-534-4308
E-mail: chris.fakes@noaa.gov

Chris Fakes, PMO
National Weather Service, NOAA
1353 FM646

Pacific Ports

Derek LeeLoy, PMO Honolulu, Hawaii
Ocean Services Program Coordinator
National Weather Service Pacific Region HQ
NOAA IRC - NWC/PRH/ESSD
1385 Wasp Blvd., Bldg. 178
Honolulu, HI 96818
Tel: 808-725-6016
Fax: 808-725-6005
E-mail: derek.leeloy@noaa.gov

VACANT
PMO Oakland/San Francisco, California
National Weather Service, NOAA
1301 Clay Street, Suite 1190N
Oakland, CA 94612-5217
Tel: 510-637-2960
Fax: 510-637-2961
E-mail:

Matt Thompson, PMO Seattle, Washington
National Weather Service, NOAA
7600 Sand Point Way, N.E., BIN C15700
Seattle, WA 98115-6349
Tel: 206-526-6100
Fax: 206-526-6904
E-mail: matthew.thompson@noaa.gov

Craig Eckert, Kodiak, Alaska
National Weather Service, NOAA
600 Sandy Hook Street, Suite 1
Kodiak, AK 99615-6814
Tel: 907-487-2102
Fax: 907-487-9730
E-mail: craig.eckert@noaa.gov

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

U.S. Coast Guard AMVER Center

Ben Strong, AMVER Maritime Relations
Officer, United States Coast Guard
Battery Park Building
New York, NY 10004
Tel: 212-668-7762
Fax: 212-668-7684
E-mail: bmstrong@batteryny.uscg.mil

SEAS Field Representatives

AOML SEAS Program Manager

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

Northeast Atlantic SEAS Rep.

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

Pacific Northwest SEAS Rep.

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

Southwest Pacific SEAS Rep.

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

Southeast Atlantic SEAS Rep.

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

Global Drifter Program

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

Drifter Program Manager

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

ARGO Program Manager

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

Other Port Meteorological Officers

ARGENTINA

Ricardo Pedraza, Jefe del Dto. Redes
Servicio Meteorlógico Nacional
25 de Mayo 658 (C1002ABN)
Buenos Aires
Argentina
Tel: +54-11 4514 1525
Fax: +54-11 5167 6709
E-mail: garcia@meteofa.mil.ar

AUSTRALIA

Head Office

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

Fremantle

Craig Foster, PMO
Port Meteorological Officer Fremantle,
c/o Bureau of Meteorology
PO Box 1370
West Perth WA 6872
Australia
Tel: +61-8 9263 2292
Fax: +61 8 9263 2297
E-mail: pma.freemantle@bom.gov.au

Melbourne

Justin Wood, PMO
c/o Bureau of Meteorology
Port Meteorological Officer
Melbourne, Burea of Meteorology,
GPO Box 1289
Melbourne, Vic. 3001
Australia
Tel: +61-3 9669 4236
Fax: +61-3 9669 4168
E-mail: pma.melbourne@bom.gov.au

Sydney

Michael Funnell, PMO
c/o Bureau of Meteorology
Port Meteorological Officer Sydney
Bureau of Meteorology
GPO Box 413
Darlinghurst NSW 1300
Australia
Tel:+61 2 9296 1553
Fax: +61 2 9296 1648
E-mail: PMA.Sydney@bom.gov.au

CANADA

Canadian Headquarters

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

Edmonton

Ben Lemon, PMO
Environment Canada
Office 9345-49 Street
Edmonton, Alberta
T6B 2L8
Canada
Tel: +1-780-495-6442

British Columbia

Bruce Lohnes, Monitoring Manager
Environment Canada
140-13160 Vanier Place
Richmond, British Columbia V6V 2J2
Canada
Tel: +1-604-664-9188
Fax: +1-604 664 4094
E-mail: _bruce.lohnes@ec.gc.ca

Newfoundland

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

Nova Scotia

Martin MacLellan
Superintendent Port Meteorology & Data
Buoy Program
Environment Canada
275 Rocky Lake Rd, Unit 8B
Bedford, NS
B4A2T3
Office: (902) 426-6616
Cell: (902) 483-3723
Fax: (902) 426-6404

Ontario

Tony Hilton , Supervisor PMO; Shawn Ricker, PMO
Environment Canada
Meteorological Service of Canada
100 East Port Blvd.
Hamilton, Ontario L8H 7S4 Canada
Tel: +1-905 312 0900
Fax: +1-905 312 0730
E-mail: tony.hilton@ec.gc.ca

Quebec

Erich Gola, PMO
Service météorologique du Canada
Environnement Canada
800 rue de la Gauchetière Ouest, bureau
7810
Montréal (Québec) H5A 1L9 Canada
Tel: 514-283-1644
Cel: 514-386-8269
Fax: 514-496-1867
E-mail: erich.gola@ec.gc.ca

CHILE

Alejandro De La Maza
Chilean Navy Weather Service
Chile VOS National Focal point
Telephone: 56-32-2208622
e-mail: AdelaMazaD@directemar.cl

Iquique

Carlos Gaete
Head Iquique Maritime Governature Meteorological Center
PMO: Iquique
Tel: 56-57-240-1971/2401946
Fax: None
e-mail: cgaete@directemar.cl

Punta Arenas

Jose Melgarejo
PMO: Punta Arenas Maritime Governature Meteorological Center
email: jmelgarejo@directemar.cl
Tel: 56-61-203148/203149 Fax: 56-61-201136

Puerto Montt

Merle Donoso
E.C. Met (Msc)
PMO: Puerto Montt Maritime Governature Meteorological Center
email: mdonosor@directemar.cl
Tel: 56-65-561174
Fax: 56-65-561196

Talcahuano

Gonzalo Concha
Head Talcahuano Maritime Governature Meteorological Center
PMO: Talcahuano
email: gconcha@directemar.cl
Tel: 56-41-2266136
Fax: None

Valparaiso

Felipe Rifo
Head Valparaiso Maritime Governature Meteorological Center
Servicio Meteolorogico de la Armada de Chile
PMO Valparaiso email: frifo@directemar.cl
Tel: 56-32-2208947
Fax: 56-32-2208914

CHINA

YU Zhaoguo
Shanghai Meteorological Bureau
166 Puxi Road
Shanghai, China

CROATIA

Port of Split

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

DENMARK

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

FALKLANDS

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

FINLAND

Marja Aarnio-Frisk
Finnish Meteorological Institute
P.O. Box 503, Fl00101, Helsinki
Street: Erik Palménin aukio, FI-00560 Helsinki
Helsinki, Finland
Tel: +358 295391000
Fax: +358 295393303

FRANCE

Headquarters

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

Boulogne-sur-mer

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

Brest

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

La Réunion

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

Le Havre

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

Marseille

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

Montoir de Bretagne

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

New Caledonia

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

GERMANY

Headquarters

Annina Kroll, PMO Advisor
Deutscher Wetterdienst
Bernhard-Nocht-Strasse 76
D-20359 Hamburg
Germany
Tel: +49-69 8062 6310
Fax: +49-69 8062 6319
E-mail: pmo@dwd.de

Bremenhaven

Cord Grimmert, PMO
Steffi Mackler-Szodry, PMO
Deutscher Wetterdienst
An der Neuen Schleuse 10b
D-27570 Bremerhaven
Germany
Tel: +49-471 70040-18
Fax: +49-471 70040-17
E-mail: pmo@dwd.de

Hamburg

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

Rostock

Christel Heidner, PMO
Deutscher Wetterdienst Hafendienst Seestr. 15a
Rostock D-18119
Germany
Tel: +49 381 54388 30/31
Fax: +49 381 54388 63
E-mail: pmo@dwd.ed

GREECE

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

Grenada

Hubert Enoch Whyte, Manager
Grenada Airports Authority (Meteorology) (GGA)
St. George
Grenada
Tel: +1 473 444 4142
Fax: +1 473 444 1574

Guadalupe

Antoine Mounayar
Météo-France Service Régional Météorologique de
la Guadeloupe Aéroport du Raizet
BP 451 - 97183
Les Abymes Cedex
97183, Guadeloupe
Tel: +00 33 590 89 60 86
Fax: +00 33 590 89 60 75

HONG KONG, CHINA

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

ICELAND

Odinn Taorarinnson, Icelandic Met. Office
Bústadavegur 9
IS-150 Reykjavik
Iceland
Tel: +354 522 6000
Fax: +354 522 6001
E-mail: hreinn@vedur.is

INDIA

Calcutta

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

Chennai

A.P. Prakashan, Director
Section/PMO Unit, New No.6, (Old No. 50),
College Road
Chennai 600 006
India
Tel: +044 28230092/94/91
Ext.No. Inspectorate Section, 230,231,234,332
Fax: 044 28271581

Mumbai

G Muralidharan, Director
Regional Meteorological Centre,
Near RC Church, Colaba
Mumbai 400 005
India
Tel: +022 22174720 / 022 22151654
Cell: 09833305617 Hours: 0930-1800 5 day week
Fax: +022 22154098 / 022 22160824

Goa

N. Haridasan, Director
Port Meteorological Liaison Office
Goa Observatory, Altinho, Panjim
Goa 403 001
India
Tel: +0832 2425547
Cell: + 09579634860, Hours: 0930-1800 5 day week
Fax: +022 22154098 / 022 22160824

Kochi

M. Sethumadhavan, Director
Port Meteorological Office
Cochin Port Trust, Ex-Mahavir Plantation Bldg
Opp. IOC Ltd., Indira Gandhi Road
Willingdon Island, (South)
Kochi, Kerala State 682 003
India
Tel: +0484 2667042
Cell: +09446478262
Hours: 0930-1800 5 day week

Kolkata

Ganesh Kumar Das, Director
Regional Meteorological Centre,
4 Duel Avenue, Alipore
Kolkata (West Bengal) PIN 700027
India
Tel: +033 24492559
Cell: 09836213781
Hours: 0930-1800 5 day week
Fax: +033 24793167

Visakhapatnam

E. N. S. Sagar, Director
Port Meteorological Office,
Cyclone Warning Center, Kirlumpudi,
Opposite Andhra University out gate
Visakhapatnam, 530 017
India
Tel: +0891-2543031/32/34/35/36
Cell: +09885256279 0930-1800 5 day week
Fax: +0891-2543033 / 0891-25430

INDONESIA

Makassar

Purwanto
Bitung - 95524
Makassar
Indonesia
Tel: +62-411 319242
Fax: +62-411 328235

Semarang

Retno Widyaningsih
Jl. Deli No.3 Pelabuhan
Tanjung Emas
Semarang - 50174
Indonesia
Tel: +62-24-3559194
Fax: +62-24-3549050

Surabaya

Bambang Setiajid
Meteorological and Geophysical Agency
Jl. Kalimas Baru 97B Perak Surabay
Surabaya
Indonesia
Tel: +62-31 3291439
Fax: +62-31 3291439

Jakarta

Yudi Suryadarma
Meteorological and Geophysical Agency
Jl. Padang Marang 4 Pelabuhan Tanjung Priok
Jakarta Utara - 14310
Indonesia
Tel: +62-21-43901650
Fax: +62-21-43513

IRELAND

Cork

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

Dublin

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

JAPAN

Headquarters

Hiroshi Ohno, Senior Scientific Officer
Global Environment and Marine Department
Japan Meteorological Agency
1-3-4 Otemachi, Chiyoda-ku
Tokyo, 100-8122
Japan
Tel: +81-3 3212 8341 ext. 5144
Fax: +81-3 3211 6908

Kobe

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

Osaka

Koji Kadono, Senior Scientific Officer
Osaka District Meteorological Observatory
4-1-76, Otemae, Chuo-ku,
Osaka, 540-0008
Japan
Tel: +81 6 6949 6160
Fax: +81 6 6949 6160

Sapporo

Yumitoshi Miura, Senior Scientific Officer
Sapporo District Meteorological Observatory
18-2, Kita2jo-nishi, Chuo-ku,
Sapporo, 060-0002
Japan
Tel: +81 11 611 6174
Fax: +81 11 611 3206

Nagoya

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

Kukuoka

Naokuni Uchida, PMO
Fukuoka District Meteorological Observatory
1-2-36, Ohori, Chuo-ku
Fukuoka, 810-0052
Japan
Tel: +81 92 725 3613
Fax: +81 92 761 1726

Maizuru

Tadayoshi Utsunomiya, PMO
Okinawa Meteorological Observatory
1-15-15, Higawa
900-8517
Naha
Japan
Tel: +81 98 833 4065
Fax: +81 98 833 4292

Nagasaki

Tadahiro Saitou, PMO
Nagasaki Marine Observatory
11-51, Minami-yamate
Nagasaki, 850-0931
Japan
Tel: +81 95 811 4867
Fax: +81 95 823 8220

Yokohama

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

KENYA

Lydiah Kathuure Inoti, PMO
PO Box 98512
Mombasa
Kenya
Tel: +254 41 433 789
Fax: +254 41 433 689

KOREA REP

Doo Soo Choi, Deputy Director
Climate Division
Chunglyeoldae-ro 237, Dongrae-gu
Busan, 607-804
Korea Rep
Tel: +051-718-0421
Fax: +051-558-9506

MALASYA

Port Bintulu

Mohd Azlan Mo'min, PMO
Bintulu Meteorological Station
P.O. Box 285
97007 Bintulu
Sarawak
Malaysia
Tel: +6 086 314 386
Fax: +60-86 314 386

Port Klang

Mohd Shawal Darsono, PMO
Malaysian Meteorological Service
Jalan Sultan
46667 Petaling Jaya
Selangor
Malaysia
Tel: +6 03 7967 8084
Fax: +60-3 7957 8046

Port Kinabalu

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

MAURITUIS

Port Louis

Meteorological Services
St. Paul Road
Vacoas
Mauritius
Tel: +230 686 1031/32
Fax: +230 686 1033
E-mail:meteo@intnet.mu

MOROCCO

Hassan Bouksim, Chief, Marine Meteorology Service
Direction de La Météorologie Nationale
PORT DE MOHAMMEDIA B.P 11
Casablanca Face Préfecture Hay
Hassani Ain Chock B.P. 8106 Oasis
Casablanca
Morocco
Tel: +212 522 65 49 20
Fax: +212 522 9136 98

Hassan Amane, Meteorological Officer
Station Météorologique
JETEE MY.YOUSSEF PORT DE CASABLANCA
Casablanca
20000
Morocco
Tel: +212 5 22 450277
Fax: +212 5 22 450301

Jamal Bahri
Station Météorologique
PORT DE MOHAMMEDIA B.P 11
Morocco
Tel: +212 5 23 304128
Fax: +212 5 23 304521

NETHERLANDS

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

NEW ZEALAND

Ross Bannister, Network Operations / PMO
Meteorological Service New Zealand Ltd.
P.O. Box 722
Wellington
New Zealand
Tel: +64-4 4700 789
Fax: +64 4 4735 231

NORWAY

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

PAKISTAN

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

PHILIPINES

Cagayan de Oro City

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

Davao City

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

Dumaguete City

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

Legaspi City

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

Iloilo City

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

Mactan City

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

Manila

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

POLAND

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

REPUBLIC OF KOREA

Inchon

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

Pusan

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

ROMANIA

Mariana Fratila
Head of Forecast Division Dobrogea
Dobrogea Regional Meteorological Centre
National Meteorological Administration of
Romania Blvd. Mamaia, nr. 300
Constanta
900851
Romania
Tel:+40 727 328 125

RUSSIAN FEDERATION

Irina Pakhomova, PMO Group Chief
Murmansk
Russian Federation

Elena Parikova, PMO
Saint-Petersburg
Russian Federation

SAUDI ARABIA

Badee Ali Khayyat
Meteorology and Environmental Protection Administration (MEPA)
P.O. Box 1358
Jeddah 21431
Saudi Arabia
Tel: +966 2653 6276
Fax: +966 2657 2931

SINGAPORE

Ong Chin Hong, PMO
36 Kim Chuan Road
Singapore
537054
Singapore
Tel: 65 6488 1843
Fax: +65 6289 9381

SOUTH AFRICA

Headquarters

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

Cape Town

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

Durban

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

SRI LANKA

Ajith Weerawardena
Meteorologist in Charge
Department of Meteorology Sri Lanka 83,
Bauddhaloka
Mawatha
Colombo 07
Sri Lanka
Tel: 94-1 1268 2661

SWEDEN

Johan Svalmark, PMO
Folkborgsvägen 1
Norrköping
SE-601 76
Sweden
Tel: + 46 11 4958488
Fax: + 46 11 4958001

Greger Bergman, Manager
Observation Network
Folkborgsvägen 1
Norrköping
SE-601 76
Sweden
Tel: + 46 11 4958217
Fax: + 46 11 4958001

TANZANIA, UNITED REPUBLIC OF

Allen B. Mpeta, Senior Met. Officer
P.O. Box 3056
Dar es Salaam
United Republic of Tanzania
Tel: +255 22 2134471

THAILAND

Wittaya Rakkit, Marine Meteorological Officer
Marine and Upper Air Observation Section
Meteorological Observation Division
Thai Meteorological Department
4353 Sukhumvit Road, Bangna
Bangkok 10260
Thailand
Tel: +66-2 399 4561
Fax: +66-2 398 9838

UNITED KINGDOM

Headquarters

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

David Knott, Marine Technical Coordinator
Met Office
Observations - Marine Networks
FitzRoy Road
Exeter
Devon EX1 3PB
United Kingdom
Tel: +44 1392 88 5714
Fax: +44 1392 885681
E-mail: david.knott@metoffice.gov.uk or
Group E-mail: Obsmar@metoffice.gov.uk

Scotland

Emma Steventon
Port Meteorological Officer, Met Office
Saughton House, Broomhouse Drive
Edinburgh EH11 3XQ
United Kingdom
Tel: +44 (0)131 528 7318
Fax: +44 (0) 7753880209
E-mail: or
E-mail:

South West England & South Wales

Lalinda Namalarachchi
Port Meteorological Officer, Met Office
c/o Room 342/11
National Oceanography Centre, Southampton
University of Southampton, Waterfront Campus
European Way
SOUTHAMPTON SO14 3ZH
United Kingdom
Tel: +44 2380 638339
Fax: +44 1392 885681

South East England

Joseph Maguire
Port Meteorological Officer
Met Office
127 Clerkenwell Road
London EC1R 5LP
United Kingdom
Tel: +44 2072047453
Fax: +44 1392 885681

North England & North Wales

Tony Eastham
Port Meteorological Officer
Met Office
Unit 3, Holland Business Park,
Spa Lane,
Lathom, L40 6LN
United Kingdom
Tel: +44 (0)1695 726 467
Mobile : +44 (0) 7753 880 484
E-mail: tony.eastham@metoffice.gov.uk or
E-mail: pmo.liverpool@metoffice.gov.uk

NOAA WEATHER RADIO NETWORK

(1) 162.550 MHz
(2) 162.400 MHz
(3) 162.475 MHz
(4) 162.425 MHz
(5) 162.450 MHz
(6) 162.500 MHz
(7) 162.525 MHz

Channel numbers, e.g. (WX1, WX2) etc. have no special significance but are often designated this way in consumer equipment. Other channel numbering schemes are also prevalent.

The NOAA Weather Radio network provides voice broadcasts of local and coastal marine forecasts on a continuous cycle. The forecasts are produced by local National Weather Service Forecast Offices. Coastal stations also broadcast predicted tides and real time observations from buoys and coastal meteorological stations operated by NOAA's National Data Buoy Center. Based on user demand, and where feasible, Offshore and Open Lake forecasts are broadcast as well.

The NOAA Weather Radio network provides near continuous coverage of the coastal U.S, Great Lakes, Hawaii, and populated Alaska coastline. Typical coverage is 25 nautical miles offshore, but may extend much further in certain areas.