

NWS PRODUCTS VIA WWW, WWWH HF VOICE

The National Institute of Standards and Technology (NIST) broadcasts a time and frequency service from stations WWV in Fort Collins, CO and WWVH in Kauai, HI, commonly known to mariners as the "Time Tick" used as an aid in celestial navigation. Included in these are hourly voice broadcasts of current highseas storm warnings for the Atlantic, Pacific and the Gulf of Mexico provided by the National Weather Service.

WWV (Fort Collins, CO)  
FREQENCIES : 2.5, 5, 10, 15, 20 MHz (AM)

TIMES OF BROADCAST	BROADCAST AREA
8 minutes past the hour	Atlantic highseas warnings
9 minutes past the hour	Atlantic highseas warnings
10 minutes past the hour	Pacific highseas warnings

WWVH (Hawaii)  
FREQENCIES : 2.5, 5, 10, 15 MHz (AM)

TIMES OF BROADCAST	BROADCAST AREA
48 - 51 Minutes past the hour	Pacific highseas warnings

DIAL-A-BUOY

Mariners can obtain the latest coastal and offshore weather observations through a new telephone service called Dial-A-Buoy. This service provides wind and wave measurements taken within the last hour at stations located in coastal waters around the United States and in the Great Lakes.

To access Dial-A-Buoy, dial 228/688-1948 using a touch tone or cellular phone. Enter the five-digit station identifier in response to the prompt. The Dial-A-Buoy menu tree has a selection for the caller to receive a map of buoy station identifiers via return call fax. Station identifiers also can be obtained at the following web site: <http://www.ndbc.noaa.gov>.

Commercial Broadcast AM and FM Radio Stations That Broadcast NWS Forecasts and Warnings

Location	Station	Frequency
Anchorage	KHAR	590 AM
Anchorage	KENI	650 AM
Anchorage	KSHA	91.1 FM
Barrow	KBRW	680 AM
Bethel	KYUK	640 AM
Cordova	KLAM	1450 AM
Dillingham	DLG	670 AM
Fort Yukon	KZPA	910 AM
Galena	KIYU	900 AM
Glennallen	KCAM	790 AM
Homer	KGTL	620 AM
Homer	KBBI	890 AM
Homer/Soldotna	KPEN	101.7 FM
Homer	KWVV	103.5 FM
Juneau	KJNO	630 AM
Juneau	KINY	800 AM
Juneau	KSUP	106.3 FM
Kenai/Soldotna	KSRM	920 AM
Kenai	KWHQ	100.1 FM
Ketchikan	KTKN	930 AM
Ketchikan	KFMJ	99.9 FM
Ketchikan	KRBD	105.9 FM
Ketchikan	KGTW	106.7 FM
Kodiak	KVOK	560 AM
Kodiak	KMXT	100.1 FM
Kodiak	KJZ	101.1 FM
Kotzebue	KOTZ	720 AM
McGrath	KSKO	870 AM
Naknek	KAKN	100.9 FM
Nome	KNOM	780 AM
Nome	KICY	850 AM
Nome	KNOM	96.1 FM
Saint Paul	KUHB	91.9 FM
Sand Point	KSDP	840 AM
Seward	KRXA	950 AM
Sitka	KIFW	1230 AM
Unalaska	KIAL	1450 AM
Valdez	KCHU	770 AM
Valdez	KVAK	1230 AM
Whittier	KCHU	88.1 FM
Yakutat	KCAW	90.1 FM

Marine and aviation weather for Alaska are given every evening on "Alaska Weather", on most Alaska PBS television stations.

Radio Broadcasts of Marine Weather Warnings and Forecasts by Coast Guard Stations

I. Voice Broadcasts

Alaska Coastal VHF Weather Broadcasts are announced on Channel 16 and broadcast on Channel 22.

HF Weather Broadcasts are on 2670 Khz and 6501 Khz (USB) from Kodiak at 0200 and 1645 UCT.

Weather warnings are broadcast immediately upon receipt.

Areas covered: 1A, 1B, 2A, 2B, 2B1, 2C, 3A, 3B, 3C, 4, 4A, 5A, 5B, 6A, 6B, and offshore.

II. NAVTEX Broadcasts

Location	Station	Frequency	Time (UCT)
Kodiak	J	518 Khz	0300, 0700, 1100, 1500, 1900, 2300

Areas covered: 1A, 1B, 2A, 2B, 2B1, 2C, 3A, 3B, 3C, 4, 4A, 5A, 5B.

Location	Station	Frequency	Time (UCT)
Adak*	X	518 Khz	Same as above except at 40 min. past the hour.

Areas covered: 6A, 6B, 8, 9B, 10B, 11A, 11B, 12A, 12B, 13, 14, 15, and offshore.  
\*Adak area information broadcast from Kodiak.

National Weather Service Points of Contact

Marine weather forecasts and warnings, when issued can be obtained, by telephone, as follows:

- Telephone Access to Continuous Weather Broadcast:

Cordova	907-424-3333
Juneau	907-586-3997
Sitka	907-747-6011
Wrangell	907-874-3232
Yakutat	907-784-3654

- Office telephone numbers:

Annette	907-886-3241	12am - 5pm daily
Anchorage	907-266-5105	24 hours daily
Barrow	907-852-6484	24 hours daily
Bethel	907-543-2236	12am - 5pm daily
Cold Bay	907-532-2448	24 hours daily
Fairbanks	907-458-3700	24 hours daily
Homer	907-235-8588	varies
Juneau	907-790-6824	24 hours daily
King Salmon	907-246-3303	12am - 5pm daily
Kodiak	907-487-4338	24 hours daily
Kotzebue	907-442-3231	12am - 5pm daily
Nome	907-443-2321	24 hours daily
St. Paul	907-546-2215	24 hours daily
Valdez	907-835-4505	24 hours daily
Yakutat	907-784-3322	24 hours daily

-Alaska Weather Line: Statewide Recorded Menu System  
Easy access to land observations, buoy observations, coastal marine weather forecasts, and other information.

Within Alaska	800-472-0391
In Anchorage	907-266-5145
In Juneau	907-790-6850
In Petersburg	907-772-3311
In Fairbanks	907-458-3745

The complete weather line menu can be found at: <http://www.arh.noaa.gov/info/awl.html>

NOAA WEATHER RADIO

Continuous weather broadcasts are available from the National Weather Service and the U.S. Coast Guard. The Coast Guard communications "High Sites" are being used to relay NOAA Weather Radio broadcasts across coastal Alaska.

Weather information may be found on seven VHF high-band FM frequencies between 162.400 and 162.550 MHz; weather channels 1 through 7. See the map on the front for transmitter locations.

Broadcasts can usually be received 20 - 40 miles from the NOAA Weather Radio transmitting antenna site, depending on terrain and the quality of the receiver used. Broadcasts from Coast Guard High Sites can be received up to 100 miles away from the transmitter. The VHF-FM frequencies used for these broadcasts require narrow-band FM receivers. The National Weather Service recommends receivers having a sensitivity of one microvolt or less and a quieting factor of 20 decibels.

Some receivers are equipped with a warning alarm device that can be turned on by means of a tone signal controlled by the National Weather Service office concerned. This signal is transmitted for 13 seconds preceding an announcement of a severe weather warning.

OTHER MARINE WEATHER SERVICES CHARTS AVAILABLE

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

INTERNET ADDRESSES

- National Weather Service Alaska Region  
<http://www.arh.noaa.gov>
- National Weather Service Current Weather Data  
<http://www.nws.noaa.gov>
- National Data Buoy Center  
<http://www.ndbc.noaa.gov>
- U. S. Coast Guard Navigation Center  
<http://www.navcen.uscg.mil>
- Marine Product Dissemination Information  
<http://www.nws.noaa.gov/om/marine/home.htm>
- National Weather Service - MSC charts  
<http://www.nws.noaa.gov/om/marine/pub.htm>
- Meteorological Services of Canada  
<http://www.weatheroffice.com>

MARINE RADIOFACSIMILE CHARTS THROUGH E-MAIL

National Weather Service radiifax charts broadcast by the U.S. Coast Guard from Pt. Reyes, CA are available via E-mail. Marine text products are also available through this service. This allows Internet access for mariners who do not have direct access to the World Wide Web, but who are equipped with an E-mail system. Users can request files from NWS and have them automatically E-mailed back to them. To get started, send an E-mail to:

Address: [ftpmail@weather.noaa.gov](mailto:ftpmail@weather.noaa.gov)  
Subject: (not required)  
Body: help

Direct any questions to 301-713-1677, extension 128, or 301-713-0882, extension 122.

EXPLANATION OF ADVISORIES/WARNINGS

**SMALL CRAFT ADVISORY:** Issued to alert mariners to sustained (more than two hours) weather or sea conditions, either present or forecast, that might be hazardous to small boats. Boaters/Mariners will be able to receive the Small Craft Advisory by keeping tuned to a NOAA Weather Radio Station or the Coast Guard and commercial radio stations that transmit marine weather information. The threshold conditions for the Small Craft Advisory are usually based on 23 knots of wind or hazardous wave conditions. Decision as to the degree of hazard will be left to the boat operator, based on experience and the size and type of boat. There is no legal definition of the term "small craft".

**GALE WARNING:** Issued to indicate winds within the range of 34 to 47 knots are either present or forecast for the area.

**STORM WARNING:** Issued to indicate winds within the range of 48 to 63 knots, are either present or forecast for the area.

**HURRICANE FORCE WIND WARNING:** Issued to indicate winds of 64 knots or above, no matter how high the speed, are either present or forecast for the area. Not associated with a tropical storm.

**SPECIAL MARINE WARNING:** Issued whenever a severe local storm or strong wind of brief duration is imminent, or for volcanic ash fallout and is not covered by existing warnings or advisories.

**Tsunami WARNING/WATCH:** Issued by the National Weather Service, West Coast/Alaska Tsunami Warning Center, Palmer Alaska, for long period water waves which were generated by an earthquake, and when issued as a warning are less than 2 hours travel time to the warning area. A watch is issued when waves are more than 2 hours travel time to the warning area.

NATIONAL WEATHER SERVICE MARINE WEATHER CHARTS  
U.S. COAST GUARD COMMS STATION KODIAK, ALASKA

CALL SIGN	FREQUENCIES (kHz)	TIMES
NOJ	2054	1000-1049, 1800-1838
	4298	CONTINUOUS
	8459	CONTINUOUS
	12412.5	0400-0450, 2200-2249

WEATHER RADIOFACSIMILE TRANSMISSION SCHEDULE

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

Transmission Time (UTC)	Title
0400/1600	TEST PATTERN
0403/1603	SURFACE ANALYSIS
0427/1627	REBROADCAST 24HR SURFACE FORECAST
0437/1637	REBROADCAST 48HR SURFACE FORECAST
0447/1647	COASTAL MARINE FORECAST TABLES (ALASKA)
0456/1656	SEA STATE ANALYSIS/REBROADCAST
0506/1706	GOES IR SATELLITE IMAGE
0517/1717	500 MB ANALYSIS
0527/1727	SYMBOLS AND CONTRACTIONS/SCHEDULE
0548/1748	REQUEST FOR COMMENTS/PRODUCT NOTICE
1000/2200	TEST PATTERN
1003/2203	SURFACE ANALYSIS
1027/2227	24HR SURFACE BROADCAST
1037/2237	48HR SURFACE BROADCAST
1047/2247	48HR WIND/WAVE FORECAST
1057/2257	5-DAY SEA ICE FORECAST/SEA ICE ANALYSIS
1117/2317	GOES IR SATELLITE IMAGE
1128/2328	48HR WAVE PERIOD, SWELL DIRECTION
1138/2338	48HR 500 MB ANALYSIS
1148/---	SEA SURFACE TEMPERATURE ANALYSIS
1159/---	COOK INLET SEA ICE FORECAST
---/2348	96HR SURFACE FORECAST
---/2358	96HR WIND/WAVE FORECAST
---/0008	96HR WAVE PERIOD, SWELL DIRECTION
---/0018	96HR 500 MB ANALYSIS

A comprehensive set of NWS Marine Weather Charts for the Eastern Pacific are broadcast from U.S. COAST GUARD STATION POINT REYES, CALIFORNIA

CALL SIGN	FREQUENCIES (kHz)	TIMES
NMC	4346	NIGHT
	8682	CONTINUOUS
	12730	CONTINUOUS
	17151.2	CONTINUOUS
	22527	DAY