

MSC-10-POINT ST. GEORGE, CA TO CANADIAN BORDER

NOAA WEATHER RADIO BROADCASTS

CITY	STATION	FREQUENCY	BROADCAST TIMES
Astoria, OR	KEC-91	162.40 MHz	Continuously
Astoria, OR	WWF-94	162.425 MHz	Continuously
Astoria, OR	WWV-95	162.475 MHz	Continuously
Cross Bay, OR	KH32	162.40 MHz	Continuously
Crescent City, CA/Palmer Butte, OR	KH37	162.40 MHz	Continuously
Eugene, OR	KEC-42	162.40 MHz	Continuously
Emkaia/Mt. Rainier, CA	KEC-92	162.40 MHz	Continuously
Medford, OR	WV-85	162.40 MHz	Continuously
Ma. Abland, OR	WWV-97	162.55 MHz	Continuously
North Bay, WA	KH39	162.475 MHz	Continuously
Newport, OR	KH33	162.55 MHz	Continuously
Olympia, WA	WV-62	162.475 MHz	Continuously
Portland, OR	KSC-98	162.55 MHz	Continuously
Puget Sound, WA	WWG-24	162.425 MHz	Continuously
Rosburg, OR	WV-98	162.55 MHz	Continuously
Salem, OR	WV-96	162.475 MHz	Continuously
Seattle, WA	KH-60	162.55 MHz	Continuously

These VHF-FM radio stations, locations shown on the map, are operated by the National Weather Service. This is a continuous broadcast, 24 hours a day. Broadcasts are updated every 3 to 6 hours and amended as required. In addition to state and local public forecasts, weather and wave observations from shore stations, boaters, and pages, the following marine information is included:

1. Marine forecasts and warnings for coastal waters (out to 40 miles), including Strait of Juan de Fuca and the inland waters of western Washington, and Grays Harbor and Columbia River Bar forecasts.
2. Offshore waters forecast (60-250 miles offshore) from Cape Flattery, WA to Point Conception, CA.
3. State forecasts and local public forecasts.
4. Selected weather observations from Coast Guard, buoy, and other stations in western Oregon, western Washington, northern California, and southwestern British Columbia.

Whenever severe weather warnings are necessary, the broadcasts will be updated and the transmission devoted to "top-to-bottom" information on storm dangers.

BROADCASTS OF MARINE WEATHER FORECASTS AND WARNINGS BY MARINE RADIO/TELEPHONE STATIONS

CITY	STATION	FREQUENCY (MHz)	BROADCAST TIMES/PST
Astoria, OR	NMW (USCG)	2670 157.1 MHz (Ch. 22A)	9:33 am, 9:33 pm
North Bend, OR	NCE (USCG)	2670 157.1 MHz (Ch. 22A)	10:03 am, 10:03 pm
Humboldt Bay, CA	NMC-11 (USCG)	2670 157.1 MHz (Ch. 22A)	7:03 am, 7:03 pm
Port Angeles, WA	NOV (USCG)	2670 (A13) 157.1 MHz (Ch. 22A)	8:15 am, 8:15 pm 10:15 am, 10:15 pm
Portland, OR	NMW44 (USCG)	157.1 MHz (Ch. 22A)	9:45 am
Seattle, WA	NMW43 (USCG)	157.1 MHz (Ch. 22A)	10:30 am, 10:30 pm

HIGH SEAS RADOTELEPHONE WEATHER BROADCASTS FOR NORTH PACIFIC

CITY	STATION	FREQUENCY (MHz)	BROADCAST TIMES/UTC
Point Reyes, CA	NHC (USCG)	4420.0 (A33) 8744.0 (A33) 13089.0 (A33) 17144.0 (A33)	0420, 1030 0430, 1030, 1630, 2230 0430, 1030, 1630, 2230 1630, 2230

Transmission mode: Single Sideband, suppressed carrier

HIGH SEAS RADOTELEPHONE (STOR) WEATHER BROADCASTS FOR NORTH PACIFIC

CITY	STATION	FREQUENCY (MHz)	BROADCAST TIMES/UTC
Point Reyes, CA	NMC (USCG)	8416.5 16806.5	0005, 1800 0005, 1800

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

Copies of these charts are available for \$1.25 each from: National Ocean Service, Distribution Division (N/A/C33) 2160 Rockledge Blvd., Rockledge, FL 32955 Telephone: 1-800-538-8972 Or can be viewed at the following web site: <http://www.nws.noaa.gov/om/marine/pub.htm>

NOAA, NATIONAL WEATHER SERVICE, WASHINGTON, DC, RADIOFACSIMILE SCHEDULE PART ONE TRANSMITTED VIA U.S.C.G., POINT REYES, CA, (NMC) AS OF 17 NOV 99

TIME	AREA	CHART	TIME	AREA	CHART	TIME	AREA	CHART
0241Z		TEST PATTERN	084Z		4BR WIND/VW VT 00Z	120Z		END TRANSMISSION
0248Z	7	SATELLITE PICTURE	0852Z		4BR WV PERIOD VT 00Z	141Z		TEST PATTERN
0259Z	5	SATELLITE PICTURE	0908Z	7	SATELLITE PICTURE	1418Z	1	9MR 500 MB VT 00Z
0310Z	8	00Z SEA STATE ANALYSIS	0919Z	2	00Z SFC ANALYSIS PART 1	1428Z	1	9MR SFC VT 00Z
0320Z	2	00Z SFC ANALYSIS PART 1	0923Z	3	00Z SFC ANALYSIS PART 2	1438Z	5	SATELLITE PICTURE
0331Z	3	00Z SFC ANALYSIS PART 2	0947Z	5	SATELLITE PICTURE	1449Z	4	SATELLITE PICTURE
0343Z	1	00Z 500 MB ANALYSIS	0952Z	2	RETANSMT 0919Z	1500Z	8	12Z SEA STATE ANALYSIS
0352Z	2	RETANSMT 0320Z	1100Z		TEST PATTERN	1510Z	4	12Z TROPICAL ANALYSIS
0408Z	3	RETANSMT 0332Z	1104Z		SCHEDULE PART 1	1520Z	2	12Z SFC ANALYSIS PART 1
0420Z		END TRANSMISSION	1157Z		SCHEDULE PART 2	1532Z	3	12Z SFC ANALYSIS PART 2
0800Z		TEST PATTERN	1126Z		REQUEST FOR COMMENTS	1542Z	1	12Z 500 MB ANALYSIS
0808Z	8	24HR SFC VT 00Z	1137Z		PRODUCT NOTICE BULLETIN	1552Z	2	RETANSMT 1520Z
0818Z	8	24HR WIND/VW VT 00Z	1148Z	9	RETANSMT 2042Z	1602Z	3	RETANSMT 1532Z
0828Z	1	4BR 500 MB VT 00Z	1158Z	6	RETANSMT 2014Z	1602Z		END TRANSMISSION
0838Z	1	4BR SFC VT 00Z						

FREQUENCIES: DAY: 6862, 12730, 17151, 2, 22297 MHz

NIGHT: 4364, 6862, 12730, 17151, 2, 2414 MHz

CARRIER FREQUENCY IS 1.0 KHz BELOW ASSIGNED FREQUENCY

NOAA, NATIONAL WEATHER SERVICE, WASHINGTON, DC, RADIOFACSIMILE SCHEDULE PART TWO TRANSMITTED VIA U.S.C.G., POINT REYES, CA, (NMC) AS OF 17 NOV 99

TIME	AREA	CHART	TIME	AREA	CHART	TIME	AREA	CHART
2000Z		TEST PATTERN	2108Z	5	SATELLITE PICTURE	2300Z		TEST PATTERN
2008Z	8	24HR SFC VT 12Z	2119Z	2	18Z SFC ANALYSIS PART 1	2304Z	9	SST ANALYSIS
2018Z	8	24HR WIND/VW VT 12Z	2122Z	3	18Z SFC ANALYSIS PART 2	2314Z	6	SST ANALYSIS
2028Z	1	4BR 500 MB VT 12Z	2144Z	4	18Z WIND/SEA ANALYSIS	2342Z		SCHEDULE PART 1
2038Z	1	4BR SFC VT 12Z	2148Z	2	RETANSMT 2119Z	2352Z		SCHEDULE PART 2
2048Z	1	4BR WIND/VW VT 12Z	2207Z	2	RETANSMT 2132Z	2362Z		END TRANSMISSION
2058Z	1	4BR WAVE PERIOD VT 12Z	2219Z		END TRANSMISSION			

AREAS: 1-20N-10N, 11N-13E 4-20S-30N, EAST OF 130W 7-20N-55N, EAST OF 130W 8-25N-60N, EAST OF 155W 2-20N-20N, 11N-17W 5-40N-60N, WEST OF 150W 9-40N-55N, EAST OF 130W 3-20N-17N, 17W-13E 6-23N-42N, EAST OF 160W 9-40N-55N, EAST OF 155W

CONTRACTIONS: VT-VAID TIME, SFC-SURFACE, WV-WAVE

CONTINUED ON SCHEDULE PART TWO

CANADIAN VOICE MARINE WEATHER FORECASTS

CITY	TRANSMITTER SITE	FREQUENCY (MHz/MHz)	BROADCAST TIMES (PST)
Vancouver, BC	Mt. Peake	161.65 (Ch. 21B)	Continuous broadcast
	Bowen Island	162.475	Continuous broadcast
	Aldergray	162.55 (DLA-852)	Continuous broadcast
	Mt. Helixton	162.475 (DLA-726)	Continuous broadcast
	Mt. Tain	162.40 (KFA-240)	Continuous broadcast
	Sheringham Point	2054	0520, 0820, 1120 1420, 1720, 2020
Tofino, BC	Albani	162.40	Continuous broadcast
	Amphrite Point	2054	0450, 0750, 1050 1350, 1650, 1950 2250
	Mt. Ozard	4125	0930, 1530, 2100
	Nootka	161.65 (Ch. 21B)	Continuous broadcast
	Eliza Dome	162.55	Continuous broadcast
	Cape Izon	192.55	Continuous broadcast

WEATHER NOTES

One feature of nearly all of the small boat harbors on the Oregon and Washington coasts is that each is located on the mouth of a river, which means that each has a bar where the water is more shallow than the main channel. During times of change in tide, the water across these bars becomes very rough, often making passage of small boats hazardous. The shoal tide usually has the roughest water. Care must be taken to time departure and return to avoid these rough bar conditions. On the Oregon coast, during the summertime, the wind often increases to strong north to northwest during afternoon and evening hours. Sport boat fishermen who are unfamiliar with the coast should be particularly alert for small craft advisories that may be posted for these hours. Depending on the expected weather, it may be desirable to plan on returning to port before noon to avoid the strong winds in the afternoon.

WEATHER RULES FOR SAFE BOATING

- Before setting out:
1. Obtain the latest available weather forecast for the boating area. The NOAA Weather Radio continuous broadcasts (VHF-FM) are the best way to keep informed of the expected weather and sea conditions.
 2. If you hear on the radio that warnings are in effect, don't venture out on the water unless you are confident your boat can be navigated safely under forecast conditions of wind and sea.
- While afloat:
1. Keep life jacket on and keep a weather eye out for: the approach of dark and threatening clouds, which may foretell a squall or thunderstorm; any steady increase in wind or sea; any increase in wind velocity opposite in direction to a strong tidal current. A dangerous rip tide condition may form steep waves capable of broaching a boat.
 2. Check radio weather broadcasts for latest forecasts and warnings.
 3. Heavy static on your AM radio may be an indication of nearby thunderstorm activity.
 4. If a thunderstorm catches you while afloat, you should remember that not only gusty winds but also lightning poses a threat to safety.
 - stay below deck if possible.
 - keep away from metal objects that are not grounded to the boat's protection system.
 - don't touch more than one grounded object at the same time (for you may become a conduit for electrical surges passing through the protection system).
 - Prepare for rough sea conditions.

INTERNET ADDRESSES

- National Weather Service Western Region Headquarters <http://www.nws.noaa.gov>
- National Weather Service Office - Seattle, WA <http://www.seawfo.noaa.gov/index.html>
- National Weather Service Office - Portland, OR <http://www.wrth.noaa.gov/Portland/>
- National Weather Service Office - Medford, OR <http://www.wrth.noaa.gov/Medford/OR/>
- National Weather Service Radiofax - Eureka, CA <http://www.wrth.noaa.gov/Eureka/>
- National Weather Service - MSC charts <http://www.nws.noaa.gov/om/marine/pub.htm>
- National Weather Service - Marine Dissemination <http://www.nws.noaa.gov/om/marine/home.htm>
- National Weather Service Radiofax/tx <http://weather.noaa.gov/tx/marine.shtml>

NATIONAL WEATHER SERVICE PRODUCTS AVAILABLE VIA E-MAIL (FTPMAIL)

National Weather Service radiofax charts broadcast by the U.S. Coast Guard from Boston, New Orleans, and Point Reyes, CA are now available via E-mail. Marine text products are also available. 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 order three hours, 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 (6-Kfile):

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

Direct any questions to 301-713-1677, extension 128, or 301-713-0882, extension 122, or marine.weather@noaa.gov.

NWS PRODUCTS VIA WWW, WWW HF VOICE

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

WWW (BOULDER, CO)
FREQUENCIES : 2.5, 5, 10, 15, 20 MHz (AM)

WWW (HONOLULU, HI)
FREQUENCIES : 2.5, 5, 10, 15 MHz (AM)

BROADCAST AREA: Atlantic high seas warnings
Pacific high seas warnings

DIAL-A-BOUY

Mariners can obtain the latest coastal and offshore weather observations through a new telephone service called Dial-A-Bouy. 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-Bouy, 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-Bouy 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://seaboard.mnbs.noaa.gov>