NOAA WEATHER RADIO BROADCASTS Eureka/Mt. Pierce, CA 162.40 MHz Continuously Astoria, OR KEC-91 162.40 MHz Continuously Astoria OR WNG-697 162 525 MH Continuous Brookings, OR KIH-37 162.55 MHz Continuous Coos Bay, OR 162.40 MHz Continuous Eugene, OR KEC-42 162.40 MHz Continuous Florence OR WNG-674 162 500 MH Continuous Medford, OR WXL-85 162.40 MHz Continuously Mt. Ashland, OR WWF-97 162.475 MH Continuousl Neahaknie, OR WWF-94 162.425 MHz Continuous Newport OR KIH-33 162.55 MHz Continuous Portland, OR 162.55 MHz KIG-98 Continuousl Port Orford, OF WNG-596 162.425 MH: Continuous WXL-98 162.55 MHz Roseburg, OR Continuous Salem OR WXI-96 162 475 MH Continuous Tillamook, OR WWF-95 162.475 MHz Continuous 162.425 MH: Continuous Neah Bay, WA KIH-36 162.55 MHz Continuous Olympia/Capitol Peak, WA WXM-62 162.475 MHz Continuously Puget Sound WA WWG-24 162 425 MHz Continuously 162.55 MHz Continuously Woodland, WA 162.525 MHz WNG-604

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, buoys, and gages, the following marine information is included:

- 1. Marine forecasts and warnings for coastal waters (out to 60 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, buoys, 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 "up-to-the-minute" information on storm dangers.

HIGH SEAS RADIOTELEPHONE WEATHER BROADCASTS FOR NORTH PACIFIC

<u>CITY</u>	<u>STATION</u>	FREQUENCY (kHz)	BROADCAST TIMES/UTC
Point Reyes, CA	NMC (USCG)	4426.0 (A3J) 8764.0 (A3J) 13089.0 (A3J) 17314.0 (A3J)	0430, 1030 0430, 1030, 1630, 2230 0430, 1030, 1630, 2230 1630, 2230
Transmission mode: Si	ngle Sideband, sup	pressed carrier	

HIGH SEAS RADIOTELEX (SITOR) WEATHER BROADCASTS FOR NORTH PACIFIC				
<u>CITY</u>	<u>STATION</u>	FREQUENCY (kHz)	BROADCAST TIMES/UTC	
Point Reyes, CA	NMC (USCG)	8416.5 16806.5	0000, 1800 0000, 1800	

OTHER MARINE WEATHER SERVICES CHARTS AVAILABLE

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

These charts are also posted at: http://www.nws.noaa.gov/om/marine/pub.htm

Copies of these charts are available from: FAA/National Aeronautical Charting Office Distrubition Division, AVN-530

6303 lvy Lane, suite 400 Greenbelt, MD 20770 (301) 436-8301

18001 638-8972 toll free, U.S. only (301)436-6829 Email: 9-AMC-chartsales@faa.gov

http://chartmaker.ncd.noaa.gov or your local chart agent: http://chartmaker.ncd.noaa.gov/nsd/states.html

Nautical charts for navigating these coastal greas are available from local marings, marine supply stores, and the above address

NOAA Weather Radio (NWR), Specific Area Message Encoder (SAME), and NWR Coverage

NOAA Weather Radio broadcasts on 162.40, 162.425, 162.45, 162.475, 162.50, 162.525 and 162.55 MHz can usually be received 20-40 miles from the transmitting antenna site, depending on terrain and the quality of the receiver used. Where transmitting antennas are on high ground, the range is somewhat greater, reaching 60 miles or more. 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 for 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 preceeding an announcement of a severe weather warning

In addition, the Federal Communications Commission (FCC) has approved the special SAME code to delineate marine areas. Mariners with NWR receivers equipped with SAME should check out:

http://www.nws.noaa.gov/om/marine/wxradio.htm

For a listing of marine area and zone codes for SAME, go to: http://www.nws.noaa.gov/geodata/catalog/wsom/html/marinewreas.htm

BUOY AND C-MAN DATA AVAILABLE VIA E-MAIL (FTPMAIL)

Current buoy and C-MAN data is now available in a very compact form via http:, ftp, or e-mail (FTPMAIL).

http://weather.noaa.gov/pub/fax/buoydata.txt (instructions)

CANADIAN VOICE MARINE WEATHER FORECASTS

162.475

2054

162.40

2054

4125

162.40

162.55

162.55

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

often making passage of small boats hazardous. The ebb tide usually has the rougher water. Care

On the Oregon coast, during the summertime, the wind often increases to strong north to northwest

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

during afternoon and evening hours. Sport boat fisherman who are unfamiliar with the coast should be

must be taken to time departure and return to avoid these rough bar conditions.

than the main channel. During times of change in tide, the water across these bars becomes very rough,

161.65 (Ch. 21B)

162.55 (XLA-852)

162.475 (XLA-726)

162.40 (CFA-240

161.65 (Ch. 21B)

FREQUENCY (kHz/MHz)

BROADCAST TIMES/(PST)

Continuous broadcast

Continuous broadcast

Continuous broadcast

Continuous broadcast

Continuous broadcast

0520, 0820,1120

1420,1720,2020

Continuous broadcast

0450, 0750,1050

1350,1650,1950

0930,1530,2100

Continuous broadcast

Continuous broadcas

Continuous broadcast

Continuous broadcas

http://www.ndbc.noaa.gov/data/latest_obs/

ftp://www.ndbc.noaa.gov/data/latest_obs/

ftpmail@weather.noaa.gov Put anything you like open www.ndbc.noaa.gov

cd data cd latest obs

get 42007.txt

TRANSMITTER SITE

Mt. Parke

Bowen Island

Aldergrove

Mt Helmcken

Sheringham Point

Amphitrite Point

Mt. Ozzard

Eliza Dome

Cape Lazo

Mt. Tuam

Alberni

Via e-mail (FTPMAIL)

CITY

Vancouver, BC

Victoria, BC

Tofino, BC

winds in the afternoon

The NOAA Weather Radio coverage areas are estimates. For these maps, transmitter antenna performance are assumed to be omni-directional. As a result, actual coverage can be diffrent from that depicted on this map. Coverage that is significantly different than depicted on this map should be reported to the local NWS forecast office

BROADCASTS OF MARINE WEATHER FORECASTS AND WARNINGS BY MARINE RADIOTELEPHONE STATIONS

Channel

CH WX 1

CH WX 2

CH WX 3

CH WX 4

CH WX 5

CH WX 6

CH WX 7

CITY	STATION	FREQUENCY (kHz)	BROADCAST TIMES/(PST)
Astoria, OR	NMW (USCG)	2670 157.1 MHz (Ch. 22A)	9:33 am, 9:33 pm
North Bend, OR	NOE (USCG)	2670 157.1 MHz (Ch. 22A)	10:03 am,10:03 pm
Humboldt Bay, CA	NMC-11	2670	7:03 am, 7:03 pm
Port Angeles, WA	(USCG) NOW (USCG)	157.1 MHz (Ch. 22A) 2670 (AJ3) 157.1 MHz (Ch. 22A)	8:15 am, 3:15 pm 10:15 am, 10:15 pm
Portland, OR	NMW44	157.1 MHz (Ch. 22A)	9:45 am
Seattle, WA	NMW43 (USCG)	1 <i>57</i> .1 MHz (Ch. 22A)	10:30 am,10:30 pm

Radiofax charts for the Northwest Pacific are posted at:

http://weather.noaa.gov/fax/ptreyes.shtml

Comments on the schedule or quality of charts

Email: Timothy.Rulon@noaa.gov

NOAA Weather Radio

Frequency

162.550

162.400

162,475

162.525

162.450

162.500

162.425

<u>CITY</u>	<u>STATION</u>	FREQUENCY (kHz)	BROADCAST TIMES/(PST)
Astoria, OR	NMW (USCG)	2670 157.1 MHz (Ch. 22A)	9:33 am, 9:33 pm
North Bend, OR	NOE (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 8:15 am, 3:15 pm
Port Angeles, WA	NOW (USCG)	2670 (AJ3) 157.1 MHz (Ch. 22A)	10:15 am, 10:15 pm
Portland, OR	NMW44	157.1 MHz (Ch. 22A)	9:45 am
Seattle, WA	NMW43 (USCG)	157.1 MHz (Ch. 22A)	10:30 am,10:30 pm

WEATHER RULES FOR SAFE BOATING

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. 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 affoat:

- 1. Keep life jacket on and keep a weather eve 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 (or you may become a shortcut 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.wrh.noaa.gov/sew/

National Weather Service Office - Portland, OR http://www.wrh.noaa.gov/pgr/

National Weather Service Office - Medford, OR http://www.wrh.noaa.gov/mfr/

National Weather Service Office - Eureka, CA http://www.wrh.noaa.gov/eka/

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 Products http://weather.noaa.gov/fax/marine.shtml

NATIONAL WEATHER SERVICE RADIOFAX AND TEXT FORECASTS AVAILABLE VIA E-MAIL (FTPMAIL)

National Weather Service radiofax charts and text forecasts are available via e-mail. The FTPMAIL server is intended to allow Internet access for mariners and other users who do not have direct access to the World Wide Web, but who are equipped with an e-mail system. Turnaround is generally 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 the FTPMAIL "help" file (11 bytes).

Address: ftpmail@weather.noaa.gov

Subject: (not required) Body:

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

NWS PRODUCTS VIA WWV, WWVH HF VOICE

The National Institute of Standards and Technology (NIST) broadcasts a time and frequency service from stations WWV in Boulder, CO and WWVH in Honolulu, 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.

FREQENCIES: 2.5, 5, 10, 15, 20 MHz (AM)

TIMES OF BROADCAST 8 minutes past the hour 9 minutes past the hour 10 minutes past the hour

BROADCAST AREA Atlantic highseas warnings Atlantic highseas warnings

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

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

DIAL-A-BUOY

Dial-A-Buoy gives mariners an easy way to obtain reports via a cell phone. Dial-A-Buoy provides wind and wave measurements taken within the last hour at National Data Buoy Center (NDBC) buoy and Coastal-Marine Automated Network (C-MAN) stations. The stations operated by NDBC, part of the National Weather Service, are located in the Atlantic, Pacific, Gulf of Mexico, and the Great Lakes. The Dial-a-Buoy service has since expanded to include stations owned and operated by other organizations including the United Kingdom Met Office and Environment Canada. To access Dial-A-Buoy, dial (228) 688-1948 using any touch tone or cell phone. For internet users, more information is at: http://seaboard.ndbc.noaa.gov/dial.shtml

DECEMBER 2004