NOAA WEATHER RADIO BROADCASTS

CITY	STATION	FREQUENCY	BROADCAST TIMES
Crescent City, CA/Palmer Butte, OR	KIH-37	162.55 MHz	Continuously
Eureka/Mt.Pierce, CA	KEC-82	162.40 MHz	Continuously
Mt. Umunhum, CA	KEC-49	162.55 MHz	Continuously
Mt. Umunhum, CA	WWF-64	162.45 MHz	Continuously
Point Arena/Cold Springs, CA	KIH-30	162.55 MHz	Continuously
Mt. Pise, CA	KHB-49	162.40 MHz	Continuously
Sacramento, CA	KEC-57	162.55 MHz	Continuously
San Luis Obispo, CA	KIH-31	162.55 MHz	Continuously

These VHF-FM radio stations, locations shown on the map, are managed by the National Weather Service. This is a continuous broadcast, 24 hours a day. Broadcast tapes 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:

KIH-37, Crescent City, CA/Palmer Butte, OR
a. Forecasts and warnings for coastal waters out to 60 miles from Cape Blanco, OR to Cape Mendocino, CA.
b. Weather reports from stations along the coast from Cape Blanco, OR to Point Arena, CA.
c. Buoy reports from nearby coastal and offshore Buoys.

KEC-82, Eureka/Mt.Pierce, CA
a. Forecasts and warnings for coastal waters out to 60 miles from Pt. St. George, CA to Point Arena, CA.
b. Weather reports from stations along the coast from Cape Blanco, OR to Point Arena, CA.
c. Buoy reports from nearby coastal and offshore Buoys.

KEC-49, Mt Umunhum, CA
a. Forecasts and warnings for Monterey Bay Area and coastal waters from Point Arena, CA to Point Conception, CA.
b. Weather reports from stations in Monterey Bay Area and along the coast from Point Arena, CA to Point Piedras Blancas, CA.
c. Offshore waters forecast (60-250 miles offshore) from Point St. George, CA to Point Conception, CA.

KIH-30, Point Arena/Cold Springs, CA
a. Forecasts and warnings for coastal waters out to 60 miles from Cape Mendocino, CA to Point Pinos, CA.
b. Weather reports from stations along the coast from Cape Blanco, OR to Point Arena, CA.
c. Buoy reports from nearby coastal and offshore Buoys.
d. Offshore waters forecast (60-250 miles offshore) from Point St. George, CA to Point Conception, CA.

KHB-49, Mt. Pise, CA
a. Forecasts and warnings for San Francisco Bay Area, coastal and offshore waters from Point Arena, CA to Point Pinos, CA.
b. Weather reports from stations in the San Francisco Bay Area and along the coast from Point Arena, CA to Point Piedras Blancas, CA.

KEC-57, Sacramento, CA/WWF-64, Monterey, CA
a. Forecasts and warnings for: coastal waters from Point Arena to Point Conception; the San Francisco, San Pablo and Suisun Bays; West Delta, Lower Sacramento Valley and Northern San Juaquin Valley.
b. Weather reports from Point Arena to Point Conception, the San Francisco Bay Area, Monterey Bay Area, Upper and Lower Sacramento Valley, and Lower San Joaquin Valley.

KIH-31, San Luis Obispo, CA
a. Forecasts and warnings for coastal waters from Point Pinos, CA to Mexican Border.
b. Weather reports from stations along the coast from Monterey Airport to Santa Barbara Airport.
c. Offshore waters forecast (60-250 miles offshore) from Point St. George, CA to Point Conception, CA.

BROADCASTS OF MARINE WEATHER FORECASTS AND WARNINGS BY MARINE RADIOTELEPHONE STATIONS

CITY	FREQUENCY (kHz)	BROADCAST TIMES/UTC
San Francisco, CA	2670 kHz followed by an initial call on 2182 kHz	0203, 1403
Humboldt Bay, CA	2670 kHz followed by an initial call on 2182 kHz	0303, 1503
San Francisco, CA	Ch. 22A (157.1 MHz) followed by an initial call on Ch. 16 (156.8 MHz)	1630, 1900, 2130 (Winter)
Humboldt Bay, CA	Ch. 22A (157.1 MHz) followed by an initial call on Ch. 16 (156.8 MHz)	1615, 2315

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

Copies of these charts are available for $1.25 each from:
National Ocean Service
Distribution Division (N/ACC33)
Riverdale, MD 20737
Telephone: 1-(800)-638-8972

Nautical charts for navigation purposes for these coastal areas are available from local marinas, marine supply stores, and the address to the left.

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 08 SEP 98

TIME	AREA	CHART	TIME	AREA	CHART	TIME	AREA	CHART
0245Z		TEST PATTERN	0858Z	1	48HR SEA VT 00Z	1208Z		END TRANSMISSION
0248Z	7	SATELLITE PICTURE	0908Z	7	SATELLITE PICTURE	1415Z		TEST PATTERN
0259Z	5	SATELLITE PICTURE	0919Z	2	06Z SFC ANALYSIS PART 1	1418Z	1	96HR 500 MB VT 00Z
0310Z	1	SEA STATE ANALYSIS	0932Z	3	06Z SFC ANALYSIS PART 2	1428Z	1	96HR SFC VT 00Z
0320Z	2	00Z SFC ANALYSIS PART 1	0944Z	5	SATELLITE PICTURE	1438Z	5	SATELLITE PICTURE
0333Z	3	00Z SFC ANALYSIS PART 2	0955Z	2	RETRANSMIT 0919Z	1449Z	6	SATELLITE PICTURE
0345Z	2	RETRANSMIT 0320Z	1008Z	3	RETRANSMIT 0932Z	1500Z	8	SEA STATE ANALYSIS
0358Z	3	RETRANSMIT 0333Z	1020Z		END TRANSMISSION	1510Z	4	WIND/WV ANALYSIS
0410Z	1	00Z 500 MB ANALYSIS	1100Z		TEST PATTERN	1520Z	2	12Z SFC ANALYSIS PART 1
0420Z		END TRANSMISSION	1104Z		SCHEDULE PART 1	1533Z	3	12Z SFC ANALYSIS PART 2
0815Z		TEST PATTERN	1115Z		SCHEDULE PART 2	1545Z	2	RETRANSMIT 1520Z
0818Z	8	24HR SFC VT 00Z	1126Z		REQUEST FOR COMMENTS	1558Z	3	RETRANSMIT 1533Z
0828Z	8	24HR WIND/WV VT 00Z	1137Z		PRODUCT NOTICE BULLETIN	1610Z	1	12Z 500 MB ANALYSIS
0838Z	1	48HR 500 MB VT 00Z	1148Z	9	RETRANSMIT 2304Z	1620Z		END TRANSMISSION
0848Z	1	48HR SFC VT 00Z	1158Z	6	RETRANSMIT 2314Z			

CONTINUED ON SCHEDULE PART TWO

FREQUENCIES: DAY - 8682,12730, 17151.2, 22527 kHz
NIGHT - 8682, 12730, 17151.2, 4346 kHz
FOR CARRIER FREQUENCY SUBTRACT 1.9 kHz

NOAA, NATIONAL WEATHER SERVICE, WASHINGTON, DC, RADIOFACSIMILE SCHEDULE PART TWO TRANSMITTED VIA U.S.C.G., POINT REYES, CA, (NMC) AS OF 08 SEP 98

TIME	AREA	CHART	TIME	AREA	CHART	TIME	AREA	CHART
2015Z		TEST PATTERN	2119Z	2	18Z SFC ANALYSIS PART 1	2304Z	9	SST ANALYSIS
2018Z	8	24HR SFC VT 12Z	2132Z	3	18Z SFC ANALYSIS PART 2	2314Z	6	SST ANALYSIS
2028Z	8	24HR WIND/WV VT 12Z	2144Z	4	WIND/WV ANALYSIS	2324Z		SCHEDULE PART 1
2038Z	1	48HR 500 MB VT 12Z	2154Z	2	RETRANSMIT 2119Z	2335Z		SCHEDULE PART 2
2048Z	1	48HR SFC VT 12Z	2207Z	3	RETRANSMIT 2132Z	2346Z		END TRANSMISSION
2058Z	1	48HR SEA VT 12Z	2219Z		END TRANSMISSION			
2108Z	7/5	SATELITE PICTURE	2300Z		TEST PATTERN			

AREAS: 1=20N-70N, 115W-135E; 2=20N-70N, 115W-175W; 3=20N-70N, 175W-135E; 4=20S-30N, EAST OF 160W; 5=05N-60N, WEST OF 100W; 6=23N-42N, EAST OF 136W; 7=05N-55N, EAST OF 130W; 8=25N-60N, EAST OF 155W; 9=40N-53N, EAST OF 136W

CONTRACTIONS: VT=VALID TIME, SFC=SURFACE, WV=WAVE

Comments on this schedule or quality of charts are invited.
Write to: NATIONAL WEATHER SERVICE/NOAA
NATIONAL CENTER FOR ENVIRONMENTAL PREDICTION
MARINE FORECAST BRANCH W/NMC31
5200 AUTH ROAD
CAMP SPRINGS, MD 20746-4304
Phone: 301-763-8294, extension 7401
FAX: 301-763-8085
E-MAIL: David.Felt@noaa.gov

HIGH SEAS RADIOTELEPHONE WEATHER BROADCASTS FOR NORTH PACIFIC

CITY	STATION	FREQUENCY (kHz)	BROADCAST TIMES/GMT
Point Reyes, CA (USCG)	NMC	4426.0 (USB)	0430, 1030
		8764.0 (USB)	0430, 1030, 1630, 2230
		13089.0 (USB)	0430, 1030, 1630, 2230
		17314.0 (USB)	1630, 2230

Transmission mode: Single Sideband, suppressed carrier

START BROADCAST (UTC) HIGH SEAS RADIOTELEX (SITOR) WEATHER BROADCASTS FOR NORTH PACIFIC

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

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-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 bouy station identifiers via return call fax. Station identifiers also can be obtained at the following web site: **http://seaboard.ndbc.noaa.gov.**

WEATHER RULES FOR SAFE BOATING

Before setting out:

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 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 (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.wrh.noaa.gov/wrhq/

National Weather Service Office - San Francisco Bay Area at Monterey
http://www.nws.mbay.net/home.html

National Weather Service Office - Eureka
http://www.wrh.noaa.gov/eureka/

National Weather Service Office - Los Angeles
http://www.nwsla.noaa.gov/

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

MARINE RADIOFACSIMILE CHARTS THROUGH E-MAIL

National Weather Service radiofax charts broadcast by the U.S. Coast Guard from Boston, New Orleans, and Point Reyes, CA are available via E-mail. It is anticipated that the service will include marine text products in the near future. This allows Internet access for mariners who do not have direct access to the World Wide Web, but who are equiped 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
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 WWV, WWVH 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 Honolulu, HI commonly known to mariners as "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 (HONOLULU, HI)
FREQENCIES : 2.5, 5, 10, 15 MHz (AM)

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

ACAB, AUGUST 1999

USCOMM-NOAA-DCA5741
NOAA-PA-96062

MSC-9—POINT CONCEPTION, CA TO POINT ST. GEORGE, CA