

NOAA WEATHER RADIO BROADCASTS

| CITY                     | STATION | FREQUENCY   | CHANNEL | BROADCAST TIMES            |
|--------------------------|---------|-------------|---------|----------------------------|
| San Diego, CA            | KEC-62  | 162.40 MHz  | (WX-2)  | Continuously, 24 hrs a day |
| Santa Ana, CA            | WWG-21  | 162.45 MHz  | (WX-5)  | Continuously, 24 hrs a day |
| Los Angeles, CA          | KWO-37  | 162.55 MHz  | (WX-1)  | Continuously, 24 hrs a day |
| Santa Barbara, CA        | KIH-34  | 162.40 MHz  | (WX-2)  | Continuously, 24 hrs a day |
| Santa Barbara Marine, CA | WWF-62  | 162.475 MHz | (WX-3)  | Continuously, 24 hrs a day |

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. The broadcast includes the latest coastal forecasts for Point Conception to the Mexican Border with a statement relative to warnings in effect, weather observations from selected coastal buoys and island stations, and the offshore forecasts from Point Conception to Guadalupe Island outside the Channel Islands. Warnings concerning Eastern Pacific tropical storms are also broadcast.

BROADCAST OF MARINE WEATHER FORECASTS AND WARNINGS BY MARINE RADIOTELEPHONE STATIONS

| CITY                        | FREQUENCY (kHz)   | BROADCAST TIMES/UTC |
|-----------------------------|---|---------------------|
| Los Angeles/ Long Beach, CA | 2670 kHz followed by an initial call on 2182 kHz                      | 0503, 1303, 2103    |
| Los Angeles/ Long Beach, CA | Ch. 22A (157.1 MHz) followed by an initial call on Ch. 16 (156.8 MHz) | 0200, 1800          |

HIGH SEAS RADIOTELEX (SITOR) WEATHER BROADCASTS FOR NORTH PACIFIC

| CITY            | STATION | CARRIER FREQ (kHz) | START BROADCAST/UTC |
|-----------------|---------|--------------------|---------------------|
| Point Reyes, CA | NMC     | 8416.5             | 0000, 1800          |
|                 |         | 16806.5            | 0000, 1800          |

DIAL-A-BUOY

Mariners now 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>.

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, NC |
| 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       |

ABBREVIATED POINT REYES RADIOFACSIMILE SCHEDULE

Pt. Reyes (NMC) 4346 (except 19z,23Z), 8682, 12730, 17151.2, 22527 (19z,23Z) kHz  
 Radiofax Broadcast

|                    |       |       |       |       |       |       |
|--------------------|-------|-------|-------|-------|-------|-------|
| Start Broadcast    | 0245Z | 0800Z | 1100Z | 1430Z | 1930Z | 2300Z |
| Broadcast Schedule |       | 1104Z |       |       |       | 2324Z |

The complete broadcast schedule is posted at:  
[HTTP://WEATHER.NOAA.GOV/FAX/PTREYES.SHTML](http://WEATHER.NOAA.GOV/FAX/PTREYES.SHTML)

Copies of these charts are available for \$1.25 each from:  
 FAA Distribution Division, AVN-530  
 National Aeronautical Charting Office  
 Riverdale, MD 20737-1199  
 Telephone: 1-(800)-638-8972  
<http://chartmaker.nco.noaa.gov>

All of these charts can be viewed on the internet at:  
<http://www.nws.noaa.gov/om/marine/pub.htm>  
 Nautical charts for navigation purposes for these coastal areas are available from local marinas, marine supply stores, and the above address.

HIGH SEAS RADIOTELEPHONE WEATHER BROADCASTS FOR NORTH PACIFIC

| CITY                   | STATION | CARRIER FREQ (kHz) | BROADCAST TIMES/UTC    |
|------------------------|---------|--------------------|------------------------|
| 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             |

SOME NOTES ON MARINE WEATHER OFF SOUTHERN CALIFORNIA

- When a stronger than average Pacific High pressure area is established, Northwest winds of 20 to 30 knots frequently occur off Point Conception and over the outer Channel Islands. These winds, with a duration of 12 to 18 hours will produce wind waves of 10 to 16 feet. Coastal winds are usually light with this pattern; and without a pre-sail check of the weather, this situation can lead to unexpected and dangerously high seas.
- Well developed cold fronts in the Fall thru Spring seasons will produce strong and shifting winds. Winds preceding the front are usually from the South and Southeast, and shifting into the Northwest with the frontal passage. Wind speeds are generally in the 20 to 40 knot range with heavy and confused seas.
- The Santa Ana winds of Southern California, although quite localized, can cause dangerous seas particularly in Avalon Bay on Catalina Island. This harbor is one of the most popular in Southern California with considerable small boat traffic. Avalon Harbor is exposed and unprotected to winds and seas from the east and northeast, and the stronger Santa Ana winds can cause hazardous sea and surf in the harbor.

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:

- Keep life jacket on and keep a weather eye out for: the approach of dark 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.
- Check radio weather broadcasts for latest forecasts and warnings.
- Heavy static on your AM radio may be an indication of nearby thunderstorm activity.
- 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 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.gov>
- National Weather Service Western Region Headquarters  
<http://www.wrh.noaa.gov/index.shtml>
- National Weather Service Office - Los Angeles  
<http://www.nvsla.noaa.gov>
- National Weather Service Office - San Diego  
<http://www.wrh.noaa.gov/sandiego/index.shtml>
- National Weather Service - MSC Charts  
<http://www.nws.noaa.gov/om/marine/pub.htm>
- National Weather Service - Marine Dissemination and Forecasts  
<http://www.nws.noaa.gov/om/marine/home.htm>
- National Weather Service Radiofax Products  
<http://weather.noaa.gov/fax/marine.shtml>

NATIONAL WEATHER SERVICE PRODUCTS 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 in under 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 the FTPMAIL "help" file (7 bytes).

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.

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 "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.

WWW (FORT COLLINS, CO)  
 FREQUENCIES : 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  |

WWWH (HAWAII)  
 FREQUENCIES : 2.5, 5, 10, 15 MHz (AM)

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