



U.S. DEPARTMENT OF COMMERCE
National Oceanic and Atmospheric Administration
National Weather Service

MARINE WEATHER SERVICES CHART

MEXICAN BORDER TO POINT CONCEPTION, CALIFORNIA

NOT TO BE USED FOR NAVIGATION

MARINE WEATHER REPORTING PROGRAM

The National Weather Service (NWS) has established a nationwide Mariner Report Program - MAREP - to help improve marine warnings and forecasts. Through this cooperative effort, professional mariners make radio reports of sea and wind conditions to NWS marine forecasters. If you would like to participate or learn more about this volunteer program, please call:

NWS Los Angeles 805-988-6610
NWS San Diego 1-800-240-3022

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 sustained winds greater than 21 knots and/or 10 ft. seas. 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 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.

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

TROPICAL STORM WARNING: Issued to indicate winds within the range of 34 to 63 knots are either present or forecast in conjunction with a tropical cyclone.

HURRICANE WARNING: Issued to indicate winds 64 knots or more are either present or forecast for the area in conjunction with a tropical cyclone.

NOTE: A "TROPICAL STORM WATCH" or "HURRICANE WATCH" is issued whenever a tropical storm or hurricane becomes a threat to a coastal area. The "WATCH" is not a warning, but indicates that the tropical cyclone is near enough that persons in the area covered by the "WATCH" should listen to their radios for subsequent advisories and be ready to take precautionary action in case tropical storm or hurricane warnings are issued.

Surf forecasts and water temperatures for selected beaches are included with coastal zone forecasts on NOAA Weather Radio.

NATIONAL WEATHER SERVICE TELEPHONE NUMBERS

Marine weather forecasts and also Small Craft Advisories, Gale, Storm, Hurricane Force Wind, Tropical Storm, and Hurricane Warnings, when issued, are recorded and can be obtained by telephone as follows:

| NWS OFFICE | TELEPHONE | OFFICE HOURS/LOCAL TIME |
|-----------------|--------------|-------------------------|
| Los Angeles, CA | 805-988-6610 | 9am - 2pm every day |
| San Diego, CA | 619-675-8706 | 8am - 4pm M-F |

Recorded forecast only at other times.
Recorded forecast contains the latest Marine Forecasts and Warnings issued.

NOAA WEATHER RADIO

NOAA Weather Radio broadcasts 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 can reach 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 and a quieting factor of 20 decibels.

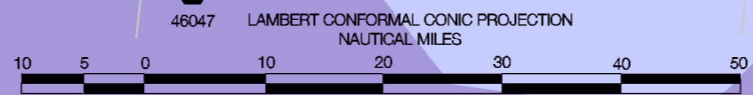
Some receivers are equipped with a warning alarm device that can be turned on automatically by means of a tone signal controlled by the National Weather Service office issuing the warning. This signal is transmitted for 13 seconds preceding an announcement of a severe weather warning.

The NWR coverage areas indicated on this map are estimates. For these maps, transmitter antenna performance are assumed to be omni-directional. As a result, actual coverage can be different 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.

COASTAL MARINE FORECAST AREAS WITH WARNING AND FORECAST ZONES

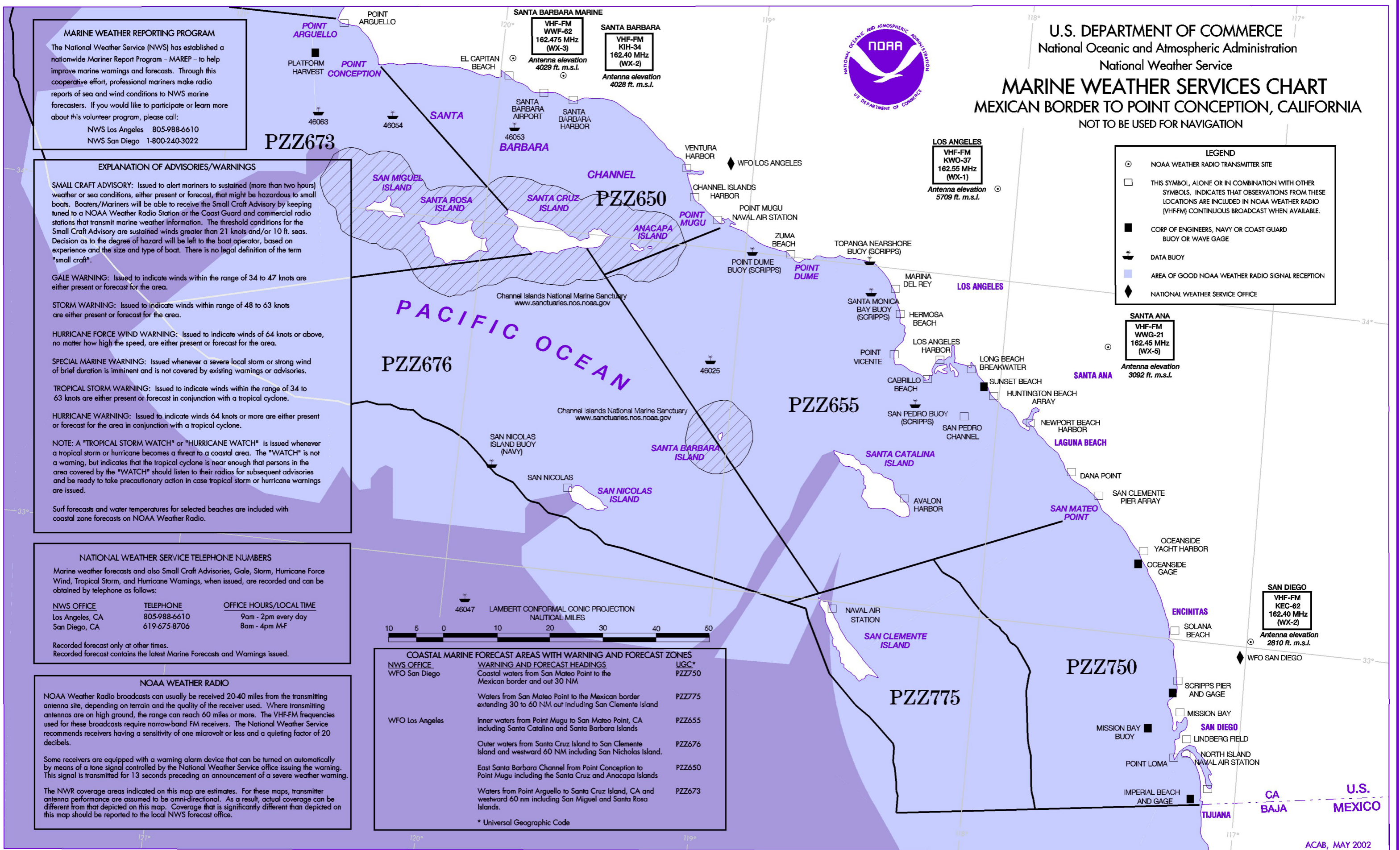
| NWS OFFICE | WARNING AND FORECAST HEADINGS | UGC* |
|-----------------|---|--------|
| WFO San Diego | Coastal waters from San Mateo Point to the Mexican border and out 30 NM | PZZ750 |
| | Waters from San Mateo Point to the Mexican border extending 30 to 60 NM out including San Clemente Island | PZZ775 |
| WFO Los Angeles | Inner waters from Point Mugu to San Mateo Point, CA including Santa Catalina and Santa Barbara Islands | PZZ655 |
| | Outer waters from Santa Cruz Island to San Clemente Island and westward 60 NM including San Nicholas Island. | PZZ676 |
| | East Santa Barbara Channel from Point Conception to Point Mugu including the Santa Cruz and Anacapa Islands | PZZ650 |
| | Waters from Point Arguello to Santa Cruz Island, CA and westward 60 nm including San Miguel and Santa Rosa Islands. | PZZ673 |

* Universal Geographic Code



LEGEND

- NOAA WEATHER RADIO TRANSMITTER SITE
- THIS SYMBOL, ALONE OR IN COMBINATION WITH OTHER SYMBOLS, INDICATES THAT OBSERVATIONS FROM THESE LOCATIONS ARE INCLUDED IN NOAA WEATHER RADIO (VHF-FM) CONTINUOUS BROADCAST WHEN AVAILABLE.
- CORP OF ENGINEERS, NAVY OR COAST GUARD BUOY OR WAVE GAGE
- DATA BUOY
- AREA OF GOOD NOAA WEATHER RADIO SIGNAL RECEPTION
- NATIONAL WEATHER SERVICE OFFICE



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
 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 |