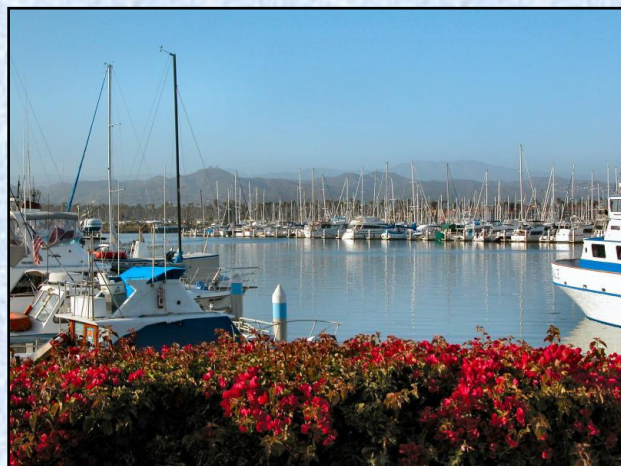


NOAA Weather Radio - continuous broadcast of the latest buoy and weather observations, forecasts, statements, and warnings.

Wx Band	Frequency	Call Sign	Location
Weather 5	162.450 MHz	WWF-64	Monterey (<i>marine</i>)
Weather 7	162.525 MHz	WNG-592	Hearst Castle (<i>marine</i>)
Weather 1	162.550 MHz	KIH-31	San Luis Obispo
Weather 3	162.475 MHz	WWF-62	Santa Barbara (<i>marine</i>)
Weather 2	162.400 MHz	KIH-34	Santa Barbara
Weather 1	162.550 MHz	KWO-37	Mount Lukens (L.A.)
Weather 7	162.525 MHz	WNG-584	Avalon (<i>marine</i>)
Weather 5	162.450 MHz	WWG-21	Santa Ana
Weather 2	162.400 MHz	KEC-62	San Diego
Weather 4	162.425 MHz	WNG-637	San Diego (<i>marine</i>)



NWS Web Sites - These contain a wealth of weather information, including real-time forecasts, warnings, Doppler weather radar, satellite imagery, marine weather charts and buoy data.

NWS Los Angeles/Oxnard
www.weather.gov/losangeles

NWS California Radar Page
www.weather.gov/Conus/pacsouthwest.php

NWS Monterey
www.weather.gov/sanfrancisco

NWS San Diego
www.weather.gov/sandiego

NWS Marine Dissemination Page
www.nws.noaa.gov/om/marine/home.htm

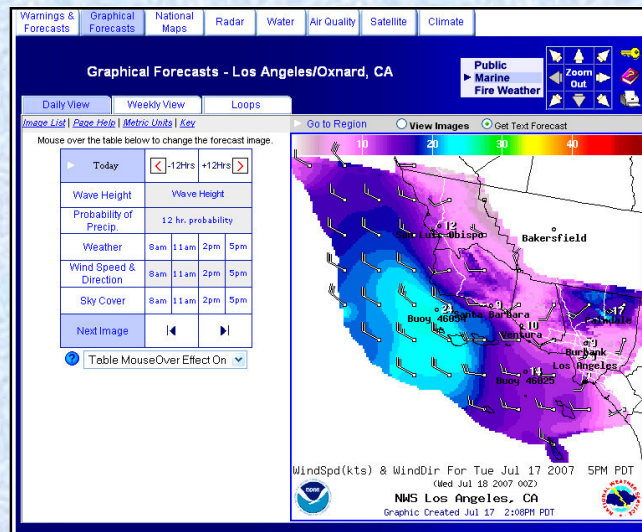
Ocean Prediction Center
www.opc.ncep.noaa.gov

National Data Buoy Center
www.ndbc.noaa.gov

National Digital Forecast Database (NDFD) marine graphics for SW California and adjacent waters -
<http://www.wrh.noaa.gov/forecasts/graphical/sectors>

Click on southwestern California to zoom in.

Sample NDFD Mouse-Over and Point-and-Click Interface



NDBC Dial-a-Buoy
1-888-701-8992

Use the buoy number below when prompted to access the latest buoy observations.

NATIONAL DATA BUOY CENTER
SOUTHERN CALIFORNIA WEATHER BUOYS

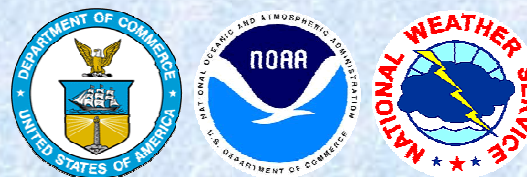
Buoy #	Lat/Long	Location
46028	35°44'13"N 121°53'19"W	Cape San Martin
46011	34°52'47"N 120°52'08"W	Point Sal
46023	34°42'50"N 120°58'00"W	Point Arguello
46054	34°16'08"N 120°26'54"W	W. Santa Barbara Ch.
46063	34°16'35"N 120°39'53"W	Point Conception
46053	34°14'10"N 119°51'00"W	Mid Santa Barbara Ch.
46069	33°39'00"N 120°12'00"W	S. Santa Rosa Island
46025	33°44'42"N 119°05'02"W	Santa Monica Basin
46047	32°26'00"N 119°31'59"W	Tanner Bank
46086	32°29'54"N 117°59'57"W	San Clemente Basin

NWS Mission

The National Weather Service provides weather, water, and climate forecasts and warnings for the United States, its territories, adjacent waters, and ocean areas for the protection of life and property and the enhancement of the national economy.

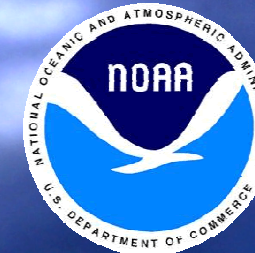
MARINE WEATHER SERVICES

The objective of the NWS Marine Weather Services is to improve efficiency and safety for commercial, governmental, and recreational maritime operations on the high seas and along the coasts of the United States. The National Weather Service has statutory responsibility for the forecasting of weather, the issuing of storm warnings, and the collection and transmission of marine information for the benefit of commerce and navigation.



NOAA National Weather Service
Forecast Office
 520 North Elevar Street
 Oxnard, CA 93030
 Phone: (805) 988-6610
 Fax: (805) 988-6613
 Email: w-lox.webmaster@noaa.gov

Cover photo: Thunderstorm off the coast of San Clemente, CA on 08/26/2007; copyright © 2007 Khristian Snyder— used with permission.



NATIONAL WEATHER SERVICE
FORECAST OFFICE
LOS ANGELES/OXNARD

MARINE
WEATHER
SERVICES



www.weather.gov/losangeles



Marine Products and Services



MARINE PRODUCTS

COASTAL WATERS FORECAST

The Coastal Waters Forecast is a routine product issued four times daily at 3:00 am, 9:00 am, 3:00 pm and 9:00 pm year-round. It is the general forecast for the coastal waters out to 60 nautical miles offshore. The Coastal Waters Forecast includes information about wind, wave, swell, and significant weather (including fog, rain or showers, and thunderstorms). Any advisories or warnings, such as a Small Craft Advisory or a Gale Warning, will be "headlined" within this product.

SPECIAL MARINE WARNING

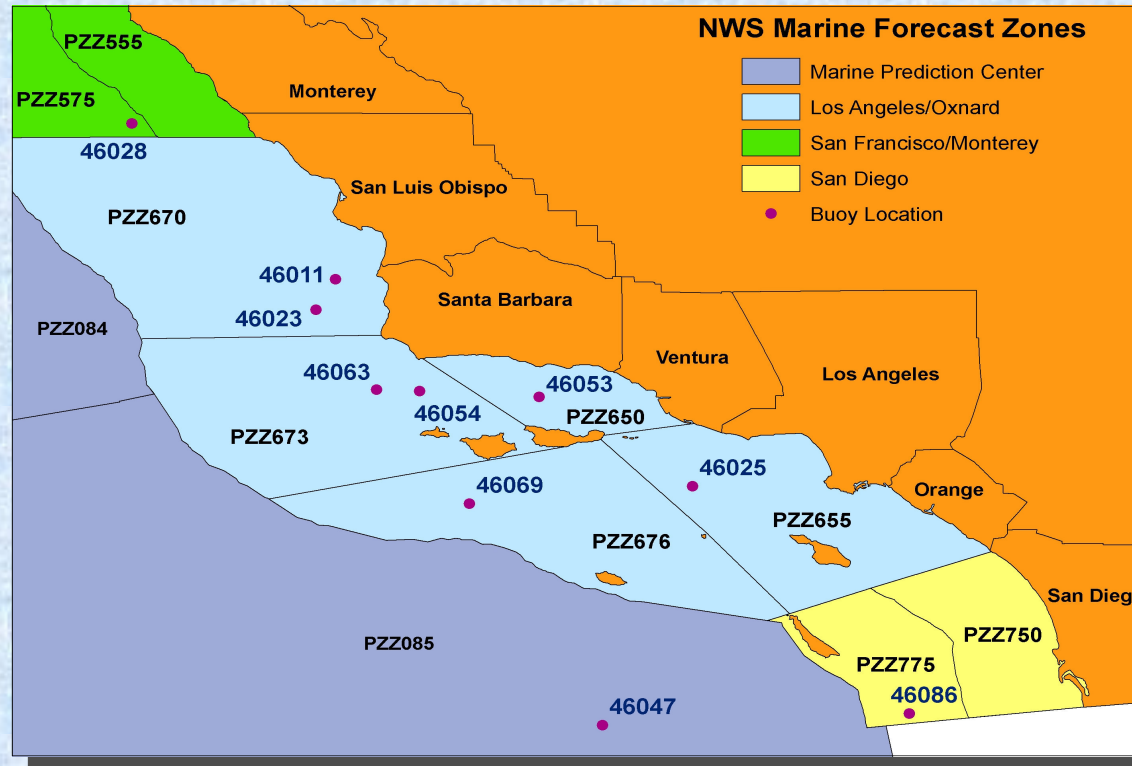
The Special Marine Warning is used for severe, short-term vents of approximately two hours or less. It is issued for short duration yet sustained winds of 34 knots or greater, when severe local storms move from land to coastal waters or when severe weather develops over the coastal waters. Special Marine Warnings are often issued in Southern California during the winter when waterspouts develop in the coastal waters. Special Marine Warnings are updated using the Marine Weather Statement (MWS).

MARINE WEATHER STATEMENT

The Marine Weather Statement (MWS) is issued for a variety of purposes including:

- to provide follow-up information on Special Marine Warnings and to cancel all or part of a warning
- for expected to existing isolated or local non-severe thunderstorm activity (severe thunderstorm over water would require a Special Marine Warning)
- for possible thunderstorm or waterspout activity within the next 12 hours
- to provide information on significant marine conditions including dense fog in high traffic areas, hazardous material spills
- to describe short duration but potentially hazardous conditions in which sustained winds or frequent gusts are up to 33 knots for 2 hours or less (winds 34 knots or greater would require a Special Marine Warning)
- to alert mariners to very significant weather features expected in the 2 to 5 day forecast periods (approaching storm, possible gales etc).

Marine weather statements can be issued at any time, as necessary. Most marine weather statements will be updated at least every 6 hours.



Headlines for Advisories and Warnings in Coastal Waters Forecast

SMALL CRAFT ADVISORY	Forecast winds of 21 to 33 knots. Small Craft Advisories may also be issued for hazardous sea conditions (10 feet or greater).
GALE WARNING	Forecast winds of 34 to 47 knots.
STORM WARNING	Forecast winds of 48 to 63 knots.
TROPICAL STORM WARNING	Forecast winds of 34 to 63 knots associated with a tropical storm.
HURRICANE WARNING	Forecast winds of 64 knots or higher associated with a hurricane.
HURRICANE FORCE WIND WARNING	Forecast winds of 64 knots or higher NOT associated with a hurricane.

OTHER COASTAL PRODUCTS

COASTAL HAZARD MESSAGE

Coastal Hazard Messages include Coastal Flood Watches, Warnings, Advisories, and Statements which provide the public with detailed information on significant coastal flood events such as widespread coastal flooding and minor events such as tidal overflow due to high astronomical tides. Coastal Hazard Messages are also issued for High Surf Advisories and above normal surf conditions.

SURF ZONE FORECAST

The Surf Zone Forecast is a surf and swell forecast for Southern California beaches. The forecast includes surf height, rip current potential, water temperature, remarks such as max sets or surf trends during the day, and an outlook for the following day. The forecast is issued twice each day at 2:00 am and 2:00 pm. The forecast issued in the morning is for the same calendar day and the forecast issued in the afternoon is for the following calendar day.

Coastal Waters Forecast Zones issued by NWS San Francisco/Monterey (partial listing):

- PZZ555** Pigeon Point to Point Piedras Blancas out to 20 nm
- PZZ575** Pigeon Point to Point Piedras Blancas 20 to 60 nm offshore

Coastal Waters Forecast Zones issued by NWS Los Angeles/Oxnard:

- PZZ670** Point Piedras Blancas to Point Arguello out to 60 nm
- PZZ673** Point Arguello to Santa Cruz Island out to 60 nm including San Miguel and Santa Rosa Islands
- PZZ676** Outer Waters from Santa Cruz Island to San Clemente Island including San Nicolas Island
- PZZ650** East Santa Barbara Channel from Point Conception to Point Mugu including Santa Cruz and Anacapa Islands
- PZZ655** Inner Waters from Point Mugu to San Mateo Point including Santa Catalina and Santa Barbara Islands

Coastal Waters Forecast Zones issued by NWS San Diego:

- PZZ750** Coastal Waters from San Mateo Point to the Mexican Border out to 30 nm
- PZZ775** Waters from San Mateo Point to the Mexican Border extending 30 to 60 nm out including San Clemente Island

Offshore Marine Forecast zones issued by the Ocean Prediction Center, Washington DC:

- PZZ084** Point Arena to Point Conception 60 to 250 nm offshore
- PZZ085** Point Conception to Guadalupe Island 60 to 250 nm offshore