BOON BODEGA OCEAN OBSERVING NODE

BOON is a coastal ocean observing system, built on long-term data from Bodega Marine Laboratory and other organizations in the region. BOON operates within the Central and Northern California Ocean Observing System (CeNCOOS). BOON seeks to combine ongoing observations with detailed analyses to develop innovative information products that advance wise use and management of the coastal ocean environment.

Who we are
Our group includes scientists, researchers, students, technicians, programmers, and volunteers.

What we do
We provide real time and long term meteorological and oceanographic data for our region to scientists, educators, students, resource managers, and the public.

Where we do it
From San Francisco Bay to Point Arena and occasionally beyond.

A few of us...
A RANGE OF OBSERVING PLATFORMS

Meteorological sensors collect atmospheric data: wind, rainfall, light, temperature, humidity and pressure.

Sea surface currents are measured from land using CODAR, High Frequency Radar.

Shore stations collect seawater data at Fort Point and Bodega Head.

Buoys and moorings hold instruments that gather atmospheric and oceanographic data off Bodega Head, in Tomales Bay and on Cordell Bank.

The Research Vessel Mussel Point is equipped with oceanographic instruments, an underway data acquisition system with real-time data displays. Used for monthly transect lines in Tomales Bay and offshore from Bodega Head.
DATA PRODUCTS

Real time seawater and meteorological observations.

Hourly sea surface currents for Bodega Bay.

Buoy based seawater observations. Dissolved oxygen shown.

Daily averages compared with climatology mean and standard deviation of data recorded from 1982-2007. Seawater temperature for 2014 shown.

... more at bml.ucdavis.edu/boon
DATA ACCESS

Graphical data browser and automated data server.

Self-serve download plots and text format CSV hourly averaged data from archives.

Custom query direct from the BOON database, realtime and historical.

bmldata@ucdavis.edu
A DATA SENSING SUPERSITE

NOAA Climate Reference Network
Meteorological Station

NOAA Earth System Research Laboratory
Meteorological Station
Wind Profiler

Center for Western Weather and Water Extremes
Atmospheric River Portal
Aerosol and Trace Gas Measurements

Naval Postgraduate School
Automatic Information System (AIS)
Ship Track Monitoring

BOON Mooring and Oceanographic Buoy

BOON Sea Surface Current Radar

BOON Sea Surface Current Radar

BOON Shorestation Intake

UNAVCO Plate Boundary Observatory