WATER BOARD
BUILDING CALIFORNIA'S FUTURE
TRAINING
WATER LEADERS TODAY
ACADEMY

How to Use Ocean Observing System Data Related to Water Quality Assessment

January 8, 2013
San Francisco Bay Regional Board Office
Room: 1505

AGENDA

09:00 – 09:20 *Introduction of Instructors and Participants*

09:20 – 09:40 *Training Overview; Introduction to CeNCOOS and SCCOOS*

09:40 – 10:10 *Shore Stations*

CeNCOOS: http://204.115.180.244/CeNCOOS/DataPortal.html
http://www.cencoos.org/sections/conditions/shore_stations.shtml
SCCOOS Automated: http://www.sccoos.org/data/autoshorestations/
http://www.sccoos.org/data/piers
SCCOOS Manual: http://www.sccoos.org/data/manualshorestations

Harmful Algal Bloom Monitoring

California HABMAP: http://habmap.info/data.html
CeNCOOS and SCCOOS HABs Program: http://www.sccoos.org/data/habs/index.php

Ocean Acidification Data Collection

SCCOOS OA Projects: http://www.sccoos.org/projects/2012OA/
CeNCOOS OA page under development

10:10 – 10:25 *Underwater Glider/Autonomous Vehicle Ocean Profiles*

CeNCOOS: http://www.cencoos.org/sections/data/glider/
SCCOOS: http://www.sccoos.org/data/spray/?r=0

10:25 – 10:40 *Moorings*:

CeNCOOS: http://www.cencoos.org/sections/conditions/buoys.shtml

10:40 – 10:55 Break

10:55 – 11:25 *Waves*

CDIP: http://cdip.ucsd.edu
CeNCOOS: http://www.cencoos.org/sections/conditions/waves.shtml
http://www.cencoos.org/sections/products/wave_climatology.shtml
SCCOOS: http://www.sccoos.org/data/waves/?r=0

Weather Observations

CeNCOOS weather page:
http://www.cencoos.org/sections/conditions/weather_current.shtml
CeNCOOS observed & model winds: http://www.cencoos.org/cgi-bin/ccencoos.cgi
SCCOOS weather observations http://www.sccoos.org/data/mets/

Weather Models

CeNCOOS COAMPS™ model: http://www.nrlmry.navy.mil/coamps-web/web/cencal
SCCOOS weather research and foundation (WRF) 12.5 km Model:
http://www.sccoos.org/data/winds/

Remote Sensing

CeNCOOS Remote Sensing with Sea Surface Temperature (SST) & Chlorophyll
http://www.cencoos.org/sections/conditions/SST_Chl.shtml
SCCOOS Remote Sensing with Sea Surface Temperature (SST) & Chlorophyll
http://www.sccoos.org/data/modis/modis_california.php

11:25 – 11:55 *HF Radar Surface Currents*

CeNCOOS Ocean Surface Currents
http://www.cencoos.org/sections/conditions/currents/index.shtml
http://www.cencalcurrents.org/
http://www.norcalcurrents.org/COCMP/index.html
http://bml.ucdavis.edu/boon/currents.html
Coastal Observing Research and Development Center HFR network
http://cordc.ucsd.edu/projects/mapping/
SCCOOS Surface Currents Mapping with HFR / Optimally Interpolated
http://www.sccoos.org/data/hfrnet/
http://www.sccoos.org/data/hfrnet/oi.php

11:55 – 1:10 Lunch (On your own)

1:10 – 1:40 *Ocean Models (ROMS)*

CeNCOOS 1.5 km resolution model in Monterey Bay; Drop-a-Drifter Tool
http://www.cencoos.org/sections/models/ROMS.shtml
http://www.cencoos.org/sections/products/drop_a_drifter.shtml
SCCOOS 1.5 km resolution model in Southern California Bight; Drop-a-Drifter Tool, Virtual Moorings
http://www.sccoos.org/data/roms/
http://ourocean.jpl.nasa.gov/SCB/scbmangen.jsp
http://www.sccoos.org/data/roms/virtual/
CeNCOOS and SCCOOS 3 km resolution model covering ocean off all of California
http://ourocean.jpl.nasa.gov/CA/
http://www.sccoos.org/data/roms-3km/
CeNCOOS 12 km resolution model running for area off whole West Coast
http://www.cencoos.org/sections/models/UCSC_ROMS.shtml

1:40 – 2:10 Discussion and questions regarding what has been presented so far

2:10 – 2:30 Discussion Case Study 1: Oil Spills: Cosco Busan and Deepwater Horizon Scenarios

Cosco Busan
http://www.cencoos.org/sections/news/SF_oil_spill_2007.shtml
- Click on Google Maps under the section called Oil Spill Maps and Photos
http://norcalcurrents.org/COCMP/oil_spill.html

Deepwater Horizon
http://rucool.marine.rutgers.edu/deepwater/
http://cordc.ucsd.edu/projects/mapping

2:30 – 2:40 Discussion Case Study 2: Ocean Beach Outfall; OCSD Diversion
http://norcalcurrents.org/COCMP/outfall_tracking.html
http://www.sccoos.org/projects/ocsd-diversion

2:40 – 2:55 Break

2:55 – 3:05 Discussion Case Study 3: The Case of the Mystery Tar balls

3:05 – 3:15 Hypoxia and Ocean Acidification
http://www.pmel.noaa.gov/co2/OA2012Workshop/
http://c-can.msi.ucsb.edu

3:15 – 3:45 Wrap-up and Evaluation

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