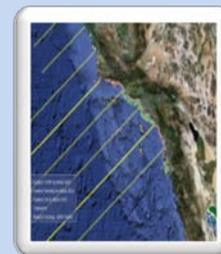




SCCOOS NEWS



Southern California Coastal Ocean Observing System

Summary

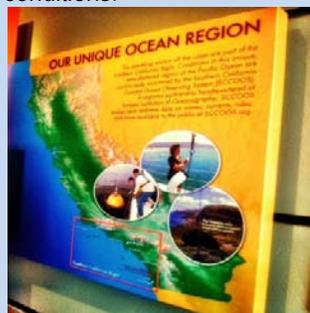
1. FY12 Funding Announcement
2. SCCOOS has a new program coordinator
3. SCCOOS exhibit at Birch Aquarium is now on display
4. Joint Strategic Advisory Committee (JSAC) meeting in Tiberon on June 4th
5. Headwaters to Ocean (H2O) Conference on May 29-31 in San Diego
6. San Diego and La Jolla Areas of Special Biological Significance (ASBS) web integration is in progress
7. Central and Northern California Ocean Observing System (CenCOOS) & SCCOOS met with Cat Kuhlman
8. Dan Rudnick adds DO sensors on glider

1. The SCCOOS FY12 has been received at Scripps in the amount of \$2,157,214

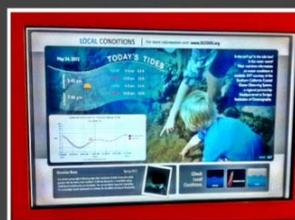


2. SCCOOS hired a new program coordinator, Danielle Williams. Her main focus is to organize public outreach and education activities such as local and state workshops, conferences, training sessions, and curriculum development. [Click here](#) to view the SCCOOS org chart.

3. The new [Birch Aquarium](#) exhibit is on display in the Galleria and is well received by patrons. The goal of the exhibit is "to create an interactive experience with a touch screen interface presenting real-time oceanographic data that compels the public to explore the geological, physical, and biological attributes of the Southern California Bight and provides up-to-the-minute information on local beach conditions."



Examples of the different touch screen options



The wall graphic text reads "The sparkling waters off the coast are part of the Southern California Bight. Conditions in this unique, semi-sheltered region of the Pacific Ocean are continuously monitored by the Southern California Coastal Ocean Observing System ([SCCOOS](#)). A regional partnership headquartered at Scripps Institution of Oceanography, SCCOOS displays near real-time data on waves, currents, tides, and more available to the public at [SCCOOS.org](#)."

Thanks to Debbie Zmarzly for her excellent job as curator for this exhibit. Memorie Yasuda at [Earthguide](#) created the interactive programming and the folks at AquaHelp assisted with the internet connectivity. K2 Fabrication did a great job fabricating and installing the components. This exhibit was funded in part by the Centers for Ocean Science Education and Excellence ([COSEE](#)) & SCCOOS. Photography was provided by Philip Colla at [OceanLight.com](#), Randy Morse at [GoldenStateImages.com](#), Doug Wylie at [DarkWatersPhoto.com](#), and [Scripps Institute of Oceanography](#).



Moonrise over San Francisco

4 California's Joint Strategic Advisory Committee (JSAC) meeting took place in scenic Tiberon, California on June 4, 2012. The morning topics included;

Marine Operations & Coastal Hazards

- Mike Dillabough at USACE regarding debris cleanup in San Francisco Bay
- Warren Blier at the National Weather Service regarding existing products
- Roberto Garcia with NAVAIR regarding how SCCOOS data are used in their offshore daily operations

Climate and Ecosystems

- Liz Whiteman from Ocean Science Trust regarding the current MPA monitoring enterprise
- William Sydeman at the Farallon Institute regarding monitoring trends and variability in climate-ecosystem conditions through time

Water Quality & Ocean Acidification

- Mariela de la Paz Carpio-Obeso introduced herself and her recent appointment with the State Water Resource Board
- Martha Sutula talked on behalf of the Southern California Water Research Project and their interest in biogeochemical products.
- George Robertson with Orange County Sanitation Department explained how SCCOOS data will be used for the outfall diversion that is set to take place in September 2012

Also, a great number of collaborations were explored within marine operations, coastal hazards, water quality, and climate & ecosystems at our breakout sessions. [Click here](#) (and then scroll down half way down the page) to view CenCOOS & SCCOOS's list of JSAC members.



Toby Garfield from SFSU gives a presentation on San Francisco Bay

5. The H2O conference took place May 29-31, 2012 at the Catamaran Resort in Mission Bay. Julie Thomas participated in a panel discussion on supporting needs for climate change adaptation planning and management decisions. The 3 days focused on status reports, suggestions, and exercises to help coastal management professionals guide their efforts. [Click here](#) for more information regarding the 10th annual H2O conference.

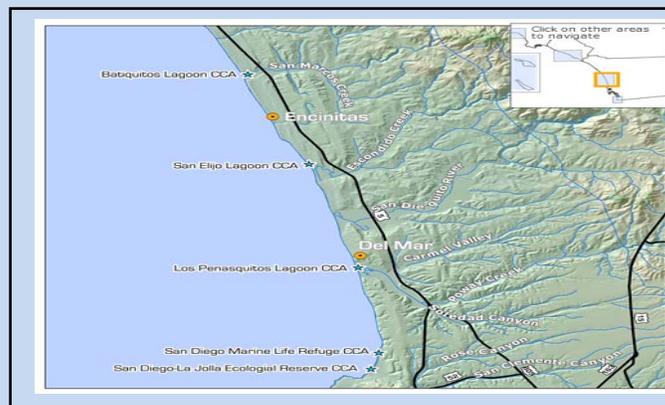


6. Integrated informational management systems are a critical tool to efficiently assess and manage regulatory programs. [Lisa Hazard and Sarah Heim are working with Kimberly O'Connell, UCSD Environmental Health and Safety, to develop an ASBS information management system](#) at UCSD/SIO. The project aims to establish the infrastructure needs as well as generating a conceptual design required for long term assessment of ASBS performance to aid in related management decisions. These are invaluable tools because they're needed for integration and public data disseminations so that interrelated biological-physical-chemical processes present in the watershed and marine environment can be assessed and available to a wide range of users.

The project is funded by the State Water Resources Control Board under Proposition 84 Areas of Special Biological Significance (ASBS) Grant Program

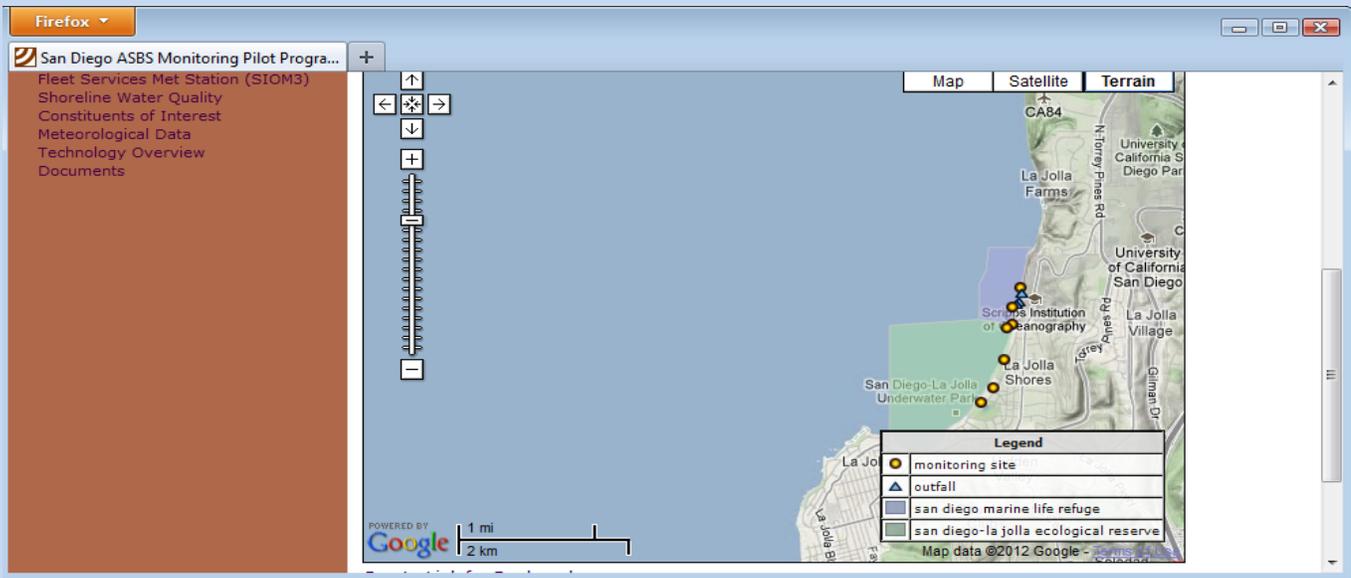
The scope of work includes:

1. Project Administration: Sheene Consulting
2. Monitoring & reporting on plan development: Weston Solutions
3. Pollution control reduction/Source controls: San Diego Urban Corps
4. Street Sweeping: UCSD Facilities
5. Runoff Reduction: USCD Facilities Mgmt Landscape Services
6. Education and Outreach: implemented: [San Diego Coastkeeper](#) at stakeholder meetings in La Jolla
7. Informational Management: Scripps Institution of Oceanography (SIO)
8. Best management practices (BMP) effectiveness assessment: Weston Solutions



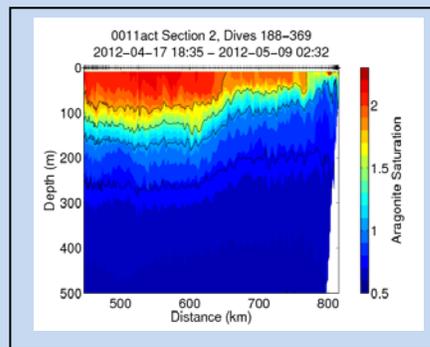
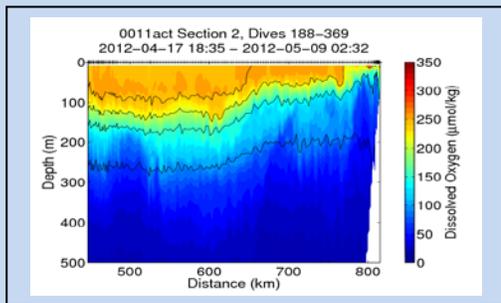
[Click here](#) to view North San Diego's critical coastal area

9. Ecosystem assessment, Development of an Ocean Ecosystems Monitoring program that assesses the relative impacts from several potential anthropogenic sources on the beneficial uses of the ASBS: UCSD/SIO



7. Cat Kuhlman, the new Deputy Secretary for Ocean and Coastal Matters at the Resources Agency and also the new Ocean Protection Council (OPC) Executive Director, met with CenCOOS & SCCOOS. They briefed Ms. Kuhlman on California's ocean observing systems: what they are, what they do, who is involved, and where they are headed in the future? SCCOOS & CenCOOS are looking forward to working with her on ocean issues in the future.

8. Underwater gliders are autonomous vehicles that profile vertically by controlling buoyancy and move horizontally on wings. A wide range of sensors has already been deployed on gliders, with many under current development, and an even wider range of future possibilities. Glider networks appear to be one of the best approaches to achieving subsurface spatial resolution necessary for ocean research.



Recently Dan Rudnick installed a dissolved oxygen (DO) sensor (SeaBird SBE-43) on one glider: [Spray 11, currently on line 80](#). The integration of DO sensors on the gliders is proceeding for the purpose of monitoring hypoxia in coastal waters. The dissolved oxygen data also allow an estimate of parameters relevant to ocean acidification through proxy relationships. Using relationships developed by scientists at Scripps Institution of Oceanography, NOAA Pacific Marine Environmental Laboratory, Universidad Autonoma de Baja California, and University of Washington, the glider data have been used to estimate pH and aragonite saturation ([click here to read more about this project](#)). Dan is working with Matt Chen, and SIO programmer on plotting DO on the web site.