



NOAA Sentinel Site Program  
FY2013 Annual Accomplishments  
Report

### **North Carolina:**

Through collaboration between NOAA's National Center for Coastal Ocean Science, East Carolina University (ECU), and many other partners a digital clearing house is under development to house information about the current and past projects being conducted on sea level change in North Carolina. The Cooperative has received a small amount of funds from NOAA SECART to advance this clearinghouse, and is exploring leveraging the framework already in place from the development of the NC Coastal Atlas work of East Carolina University.

In March 2013, the North Carolina Cooperative held a Science and Management Workshop funded through leveraged dollars by SECART and ECU, focusing on sea level rise research and monitoring resulting in a NOAA National Marine Fisheries Service Technical Memorandum.

[http://oceanservice.noaa.gov/sentinelsites/pdf/NC\\_SSC\\_SLR\\_Research\\_Coordination\\_Wkshop.pdf](http://oceanservice.noaa.gov/sentinelsites/pdf/NC_SSC_SLR_Research_Coordination_Wkshop.pdf)

The NC Cooperative produces quarterly newsletters that are being disseminated to partners and relevant community parties. The goal of these newsletters is to increase awareness of and build interest in Sentinel Site Cooperative activities and efforts.



One of the biggest successes is getting partners to talk to each other with the promise of no new money, working together on issues important to them and to NOAA and engage in unprecedented level of collaboration.

The NOAA Sentinel Site Program leveraged NOS investments of \$60,000 with end-of-year funding from across NOAA, by an additional 40% to support the development of a NOAA Sentinel Site Information Framework.

### **Chesapeake Bay**

Successfully hosted a workshop in November 2012 at Virginia Commonwealth University, where local stakeholders contributed to a meaningful dialog on decision support needs.

Continued implementation of the Chesapeake Bay Executive Order 13508, including the U.S. Army Corps of Engineers' Poplar Island Restoration demonstration project. Sentinel stations continued developing and gathering data (e.g. Smithsonian Environmental Research Center, Chesapeake Bay NERR, Assateague National Seashore).

Chesapeake Bay Sentinel Site Cooperative (CBSSC) website was launched, hosted by the Virginia Institute of Marine Sciences: <http://www.vims.edu/cbnerr/CBSSC/>.

Through NOAA's Educational Partnership Program, conducted preliminary analyses of CalcTD, a free tidal datums calculator which will enable all Cooperatives to compute local tidal datums from local water level data provided by NOAA.

### **Hawaiian Islands:**

GPS elevation work has been completed with several partners on the Big Island of Hawai'i to assist managers and researchers working on anchialine pools. Funding was provided through NOAA's Coastal Storms Program and the effort was led by the National Geodetic Survey Regional Advisor. Other partners included NOAA's NESDIS, Coastal Services Center, NOAA Corps, and Coastal Services Center, The Nature Conservancy, National Energy Laboratory Hawai'i Authority, and the National Park Service.

An inventory and current state assessment of SLC data, observations, and modeling is underway in partnership with the State of Hawaii's Office of Planning.

The Hawai'i Cooperative has partnered with coastal decision makers in coordinating research and management efforts and identifying collaborative adaptation strategies to minimize wasted efforts and to maximize resource allocation.

The Pacific Islands Landscape Conservation Cooperative is working closely with the Hawai'i Sentinel Site Cooperative management team to ensure that the limited resources available are well coordinated and leveraged, when possible, for the greatest outcome for the Pacific Islands.

## San Francisco Bay:

Numerous webinars and trainings were conducted to educate the public, decision-makers, and coastal managers on the *Sea Level Rise and Coastal Flooding Impacts Viewer*. Additional uniquely tailored mini-training and supporting documents were provided to planning and permitting staff at the Bay Conservation and Development Commission.

The California King Tides Initiative has 622 Facebook followers, from 15 countries and 43 California cities, and 164 Twitter followers. This organization provides outreach to the community on sea level rise, and participates in events in the San Francisco bay area, including the California Academy of Sciences Nightlife event.

The *San Francisco Bay NERR Coastal Training Program (CTP)*, in conjunction with the NOAA Coastal Services Center and Elkhorn Slough NERR CTP, conducted climate adaptation market analyses and needs assessments, which were disseminated to approximately 4,000 subscribers in the San Francisco Bay and Central Coast regions. 315 responses were collected from the survey.

A series of Adapting to Rising Tides (ART) presentations were provided to the decision-making community, a risk report, publication, adaptation responses, and mini-movie were added to the ART website.

The Our Coast – Our Future (OCOF) team provided demonstrations and training webinars to over 100 attendees as part of the San Francisco Planning and Urban Research Association Forum, “*Preparing for Floods and Sea Level Rise in the Bay Area*”, for decision-makers focused on sea level rise and storms decision support tools.



## Northern Gulf of Mexico:

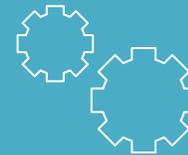
The Cooperative management team has been expanded to include representatives from the LCCs, FWS, and other partners. Connectivity with the Gulf Coastal Plains and Ozarks Landscape Conservation Cooperative has been enhanced through integration of representatives on their respective management teams to ensure connectivity. [Gulf Plains and Ozarks LCC Blog](#)

The Northern Gulf of Mexico Cooperative participated in several workshops in 2013 including:

- Climate Adaptation for Coastal Communities Workshop (Feb 2013)
- Climate Community of Practice Annual Meeting (April 2013)
- Ecological Effects of Sea Level Rise Management Team Meeting (June 2013)
- Cooperative Management Team meeting (June 2013)

A method of measuring and comparing county-level aspects of human well-being in northern Gulf of Mexico was established and shared with the Northern Gulf of Mexico Sentinel Site Cooperative.

A beta-version of Mapping Interface for Research Applications-Coastal Dynamics of Sea Level Rise, a next generation tool to predict the effects of sea level rise, was released for the Sentinel Site Cooperative, in the Gulf of Mexico.



## NWLON Stations

Through a CO-OPS data call, the Sentinel Site Cooperatives prioritized NWLON stations which would be vital to providing key information on sea level change.

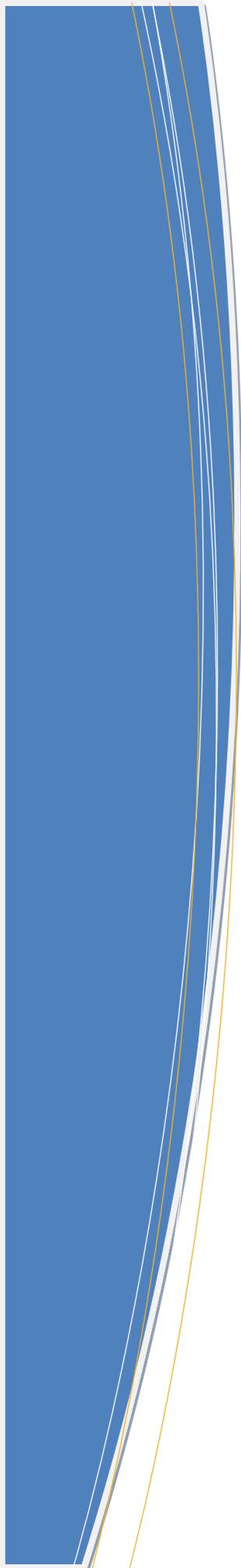


## PacIOOS Voyager

With the dedicated help of PacIOOS, the Hawaii Cooperative has an interactive map interface for visualizing and downloading oceanographic observations, forecasts, and other geospatial data and information related to the marine environment.



This is only a snapshot of what the Cooperatives have been up to. To find out more visit:  
<http://oceanservice.noaa.gov/sentinel/sites/>.



## Partners

National Oceanic and Atmospheric Administration  
East Carolina University  
U.S. Park Service  
Virginia Institute of Marine Science  
U.S. Integrated Ocean Observations Systems  
The Nature Conservancy  
Sea Grant  
Chesapeake Bay Foundation  
City of Oakland  
Maryland Department of Natural Resources  
U.S. Environmental Protection Agency  
Bay Area Rapid Transit  
Duke University  
Christopher Newport University  
Old Dominion University  
Florida Department of Environmental Protection  
Hawaii Institute of Marine Biology  
Bay Area Ecosystem Climate Change Consortium  
Smithsonian Environmental Research Center  
U.S. Fish and Wildlife Service  
U.S. Army Corps of Engineers  
University of Maryland  
U.S. Navy  
Department of Defense  
Gulf of Mexico Alliance  
Hawaii Department of Aquatic Resources  
And many more...

