

Subject: Funding, Wind Farms, and the Flight of the Glider
From: MACOORA <info@macoora.org>
Date: Tue, 05 Jan 2010 07:34:34 -0500
To: MACOORA <info@macoora.org>



To: Friends of MACOORA
From: Judith T. Krauthamer, Executive Director
Date: January 5, 2009
Regarding: Updates

Ocean Policy Task Force Releases Interim Framework for Effective Coastal and Marine Spatial Planning

On December 14, 2009, President Obama's Ocean Policy Task Force released its [Interim Framework for Effective Coastal and Marine Spatial Planning](#) (Interim Framework) for a 60-day public review and comment period. With competing interests in the ocean, our coasts and the Great Lakes, the Interim Framework offers a comprehensive, integrated approach to planning and managing uses and activities. Under the Framework, coastal and marine spatial planning would be regional in scope, developed cooperatively among Federal, State, tribal, local authorities, and regional governance structure. Everyone is encouraged to comment by mid-February, 2009. [Click here](#) for more information on how to comment.

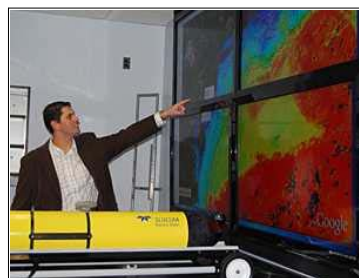
Appropriations Bill passes: \$34 million for the Integrated Ocean Observing System

December 10, 2009 WASHINGTON, D.C. – Commerce, Justice, Science (CJS) Appropriations Subcommittee Chairwoman Barbara A. Mikulski (D-Md.) announced \$31 billion, \$1.8 billion more than last year's enacted level, for agencies focused on science and competitiveness, including the National Science Foundation (NSF), National Institute of Standards and Technology (NIST), National Oceanic and Atmospheric Administration (NOAA) and National Aeronautics and Space Administration (NASA). The funds are included in the [CJS Appropriations bill](#), which was approved by a House-Senate Conference Committee as part of Congress' Fiscal Year 2010 Consolidated Appropriations bill. The bill provides \$4.7 billion in CJS funding for NOAA programs, and increased core ocean and coastal programs including more than \$90 million in new funding for fisheries management activities, and \$34 million for the Integrated Ocean Observing System, which was a Joint Ocean Commission top recommendation. It also includes \$38 million for NOAA education programs, including \$12 million for education grants. In the next step of the Appropriations process, the Consolidated Appropriations Bill will be considered a final time by both the House and Senate before being sent to the President for his signature. [Read more](#)

Renewable Energy Bill Introduced

Senator Begich (D-AK) introduced the [Renewable Energy Environmental Research Act of 2009](#) (S. 2852) to establish, within the National Oceanic and Atmospheric Administration, an integrated and comprehensive ocean, coastal, Great Lakes, and atmospheric research, prediction, and environmental information program to support renewable energy. (12/9/09).

UDEL Global Visualization Lab Changes How We See The Ocean



MACOORA member, University of Delaware [College of Earth, Ocean, and Environment](#)

(CEOE), has a state of the art project that gives scientists a totally new perspective of the world. [CEOE's Global Visualization Lab](#)

uses Google Earth to view real-time data streams on everything from ocean temperature and currents to the movement of ships in Delaware Bay -- all at once. The technology provides a completely new sense of the ocean, said the lab's creator, Matt Oliver, assistant professor of oceanography. Oliver is part of a larger cooperative effort between multiple universities and institutions working on the visualization project, including [MACOORA](#), Rutgers University, and NASA's Jet Propulsion Lab. The endeavor is funded by the Office of Naval Research, NASA, the National Science Foundation, the National Oceanic and Atmospheric Administration, and [Delaware Sea Grant](#), among others. [Read more](#). Photo by Elizabeth Boyle

NOAA Deploys New 'Smart Buoy' off Annapolis



NOAA deployed the seventh in a series of "smart buoys" to monitor weather conditions and water quality in the Chesapeake Bay. The buoy, located at the mouth of Severn River near Annapolis, Md., will be used by commercial and recreational boaters to navigate safely and provide data for educators and scientists to monitor the Bay's changing conditions. "I recently introduced legislation that calls for aggressive action to restore the Bay to health and sustainability," said Sen. Benjamin Cardin, a member of the Environment and Public Works Committee. "I particularly want to commend NOAA for its monitoring and observing system in the Bay. This new buoy in Annapolis will be joining other monitors along the Captain John Smith Trail as a way to help Marylanders and all Americans understand and appreciate the unique history, culture and environment of the Bay." [Read more](#)



Deep-sea Glider: The first robot to cross the Atlantic offers new possibilities for ocean and climate research.

"She was at sea for 221 days. She was alone, often in dangerous places, and usually out of touch. Her predecessor had disappeared on a similar trip, probably killed by a shark. Yet she was always able to do what was asked, to head in a different direction on a moment's notice and report back without complaint. "She was a hero," said Rutgers University oceanographer and MACOORA Board Director Scott Glenn, after retrieving an aquatic glider called the Scarlet Knight from the stormy Atlantic off western Spain. The 7-foot-9-inch submersible device, shaped like a large-winged torpedo, had just become the first robot to cross an ocean. [Read more](#) about MACOORA Board Director Scott Glenn and ocean observations [from David Brown, Washington Post Staff Writer, Tuesday, December 15, 2009]. Recovery of the Scarlet Knight AUV Photo is by Dan Crowell. [Watch the video](#).



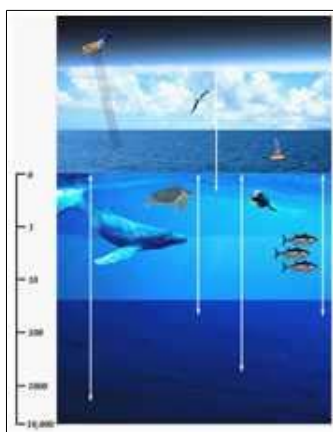
Offshore Winds: Information Needs Relevant to Offshore Wind Power Development in The U. S.

A group of scientists and researchers who have direct personal knowledge of the offshore oceanographic and meteorological environment and the offshore wind power industry discovered two things in common: that they were all experiencing increasing interaction with industry, regulatory (state and federal), and economic development personnel, and they all had the feeling that knowledge of the wind field relevant to the nascent wind industry was lacking. As a result, they met to discuss: what do we know well, what are the major gaps in our knowledge of the offshore wind field, what observations should be made, what modeling needs to be done and how? Read their recommendations [here](#).

New Ocean=Climate website

"Ocean and climate are locked in a continuous dance, the condition of one profoundly affecting the other." [The Ocean Climate Forum](#)

presents a series of issues, including extreme weather, ocean currents, ocean acidification, biodiversity, coastal resources and economic effects, in an international, interactive mode. There are up to date news feeds and a section for decision -makers.



Biological Ocean Observing: Exploring components of IOOS. The merger of

biological data with Ocean Observing systems is a necessary process for us to achieve many of the stated societal goals of IOOS. A series of presentations are available [online](#)

MACOORA Welcomes New Member, the Beacon Institute

[Beacon Institute](#), with offices in Beacon (Dutchess County) and Troy (Rensselaer County), New York, is a not-for-profit environmental research organization with the mission to create and maintain a global center for scientific and technological innovation that advances research, education and public policy regarding rivers and estuaries. The Beacon Institute in Troy, N.Y., and IBM are developing a network of sensors called the River and Estuary Observatory Network (REON) in New York's 315-mile-long Hudson River. Currently there are two solar-powered sensor arrays attached to floating platforms and several mobile sensors but, eventually, engineer James Bonner and his team plan to have hundreds, each with its own computer chip gathering data about temperature, salinity and water cloudiness. The sensors possess optical properties that allow scientists to visualize the distribution of chlorophyll in the water. Eventually, they will incorporate microscopy and genetic sequencing technology to perform real-time underwater experiments of microscopic organisms. The minute-to-minute data stream from REON sensors is gathered and transmitted to scientists on land and will help increase understanding of how humans are affecting the river ecosystem.

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Annual Meeting Presentations Online. MACOORA annual meeting ppts and audio presentations are now [online](#), in addition to an [attendee roster](#).

Leadership Changes at the National Ocean Service

Jack Dunnigan, assistant administrator for NOAA's National Ocean Service, will retire at the end of March 2010. David Kennedy will lead NOS as its acting assistant administrator. He will work with Deputy Under Secretary Mary

Glackin to review NOS corporate operations and ensure that NOS activities align effectively with NOAA's and the Commerce Department's priorities. Dr. Holly Bamford will serve as acting deputy assistant administrator.

Got photos?

[Bill Zaher](#)

(NOAA) is trying to populate a photo resource library for use mostly by NOAA Fisheries staff, but would be available to all. The images will be used in annual reports, brochures, one-pagers, on-line. Images must be a minimum 300 dpi at 8" x 10". All photos will be credited, personal or work-related. Subject matter: fish, fishing, seafood processing, fishing boats, recreational fishing activities and vessels.

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Questions, comments or concerns? Let us know: info@macoora.org

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