



# MACOORA

Mid-Atlantic Coastal Ocean Observing Regional Association

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## 2008: A SUCCESSFUL YEAR FOR MACOORA

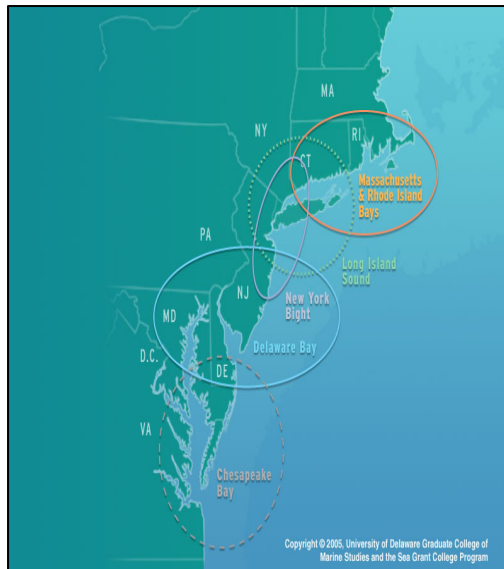
On March 11-12, 2008 MACOORA held its Workshop on Coastal Managers' Needs for Coastal and Ocean Observations for Water Quality in Philadelphia, where coastal managers identified estuarine and coastal observation information products that would be of most use to them in: Managing beach closures; Managing shellfish beds; Monitoring harmful algae; Monitoring phytoplankton levels; Developing total maximum daily loads (TMDL); Identifying nonpoint sources of fecal coliform; Assessing the impacts of hurricanes on coastal ocean properties

This past May 13, 2008, MACOORA's New York Bight Sub-region held its stakeholder meeting in Brooklyn, NY, addressing the use of ocean observations to support the emergency management and first responder communities, highlighting Stevens Institute

of Technology's NY Harbor and Bight Nested High Resolution Project.

On July 21, 2008, MACOORA's Long Island Sound Sub-region held its stakeholder meeting at Stony Brook University to determine current status of observing capabilities and needs in Long Island Sound and identify gaps and opportunities.

MACOORA's Massachusetts and Rhode Island Bays and Shelf (MARIBS) Subregion is planning a meeting in Fall River, MA focused on fisheries issues.



MARCOOS, MACOORA's operational component, continues to thrive, and commenced its second year of operation on October 1, 2008 with a \$1.7M NOAA grant.

## A Successful year for MACOORA Members

**MACOORA member, Chesapeake Research Consortium,**

**[www.chesapeake.org](http://www.chesapeake.org)**, recently released Climate Change and the Chesapeake Bay. State-of-the-Science Review and Recommendations. A Report from the Chesapeake Bay Program Science and Technical Advisory Committee (STAC). Environmental monitoring remains an essential component of the Chesapeake Bay Program. Continued on page 2.



## A Successful year for MACOORA Members cont.

Computer models and simulations help develop environmental policy and regulation, but the ultimate success (or failure) of the program rests on real-world conditions. Climate change compounds the already critical need for monitoring, but also creates new challenges. The design of Chesapeake Bay monitoring systems must allow detection of long-term trends *and* allow managers to differentiate climate-driven changes from those associated with restoration actions or other sources of degradation. These distinctions are essential for understanding the efficacy of management efforts and determining the causes of change in ecosystem health and water quality. For a free copy, visit <http://www.chesapeake.org/stac/Pubs/climchangereport.pdf>

**Woods Hole Group, Inc.**, [www.whgrp.com/](http://www.whgrp.com/), an East Falmouth-based environmental consulting firm, has secured a \$15 million, five-year contract from the United States Army Corps of Engineers, the company has announced. The company will provide environmental planning and consulting services for projects located in 14 northeastern states and Washington, D.C.

### University of Massachusetts at Dartmouth,

[www.umassd.edu](http://www.umassd.edu), [www.smast.umassd.edu](http://www.smast.umassd.edu), has announced that the U.S. Office of Naval Research has awarded \$1.1 million over three years to three UMass Dartmouth professors to study the process of ocean mixing. Drs. Louis Goodman and Miles Sundermeyer, both of SMAST, and Dr. Amit Tandon (Physics/SMAST) will use an unmanned

Continued on page 4



A report of the Arctic Ocean Observing System (iAOOS) for 2008 has been prepared by the Arctic Ocean Sciences Board, one of the two supporting organizations of the system.

The iAOOS is also supported by the World Climate Research Programme (WCRP), which is co-sponsored by the World Meteorological Organization (WMO). The focus of iAOOS is on Arctic change, including the fate of perennial sea ice and the climatic

and social effects of its disappearance.

The system was used as a framework to achieve optimal coordination of projects during the International Polar Year 2007-2008, an initiative co-organized by the WMO and the International Council for Science. The iAOOS report provides a concise account of the activities of the flagship projects during 2008 together with a summary description of additional work planned in 2009.

## Sub-Regional Observing Systems

For a full listing visit

[www.macoora.org/sub.html](http://www.macoora.org/sub.html)

### Massachusetts & Rhode Island Bays & Shelf

<http://mvcodata.whoi.edu/cgi-bin/mvco/mvco.cgi>

<http://tidesandcurrents.noaa.gov/>

<http://nerrs.noaa.gov/WaquoitBay/welcome.html>

<http://nerrs.noaa.gov/NarragansettBay/welcome.html>

### Long Island Sound

<http://lisicos.uconn.edu/>

<http://www.sunysb.edu/soundscience>

<http://www.co-ops.nos.noaa.gov/nhports/nhports.shtml>

### New York Bight

<http://hudson.dl.stevens-tech.edu/maritimeforecast/>

<http://co-ops.nos.noaa.gov/nyports/nyports.html>

<http://www.marine.rutgers.edu/cool/>

<http://www.marine.rutgers.edu/mrs/codar.html>

<http://nerrs.noaa.gov/HudsonRiver/welcome.html>

<http://nerrs.noaa.gov/JacquesCousteau/welcome.html>

### Delaware Bay

<http://nerrs.noaa.gov/Delaware/welcome.html>

<http://www.udel.edu/dbos/>

<http://tidesandcurrents.noaa.gov/dbports/dbports.shtml?port=db>

### Chesapeake Bay

<http://nerrs.noaa.gov/ChesapeakeBayMD/welcome.html>

<http://nerrs.noaa.gov/ChesapeakeBayVA/welcome.html>

<http://www.cbos.org/>

<http://www.nasa.gov/centers/goddard/home/index.html>

<http://tidesandcurrents.noaa.gov/cbports/cbports.shtml?port=cb>

### Offshore Coastal Waters

<http://nerrs.noaa.gov/Monitoring/>

<http://www.weatherflow.com>

<http://marcoos.us/index.htm>

<http://www.ndbc.noaa.gov/>

<http://www.nws.noaa.gov/>

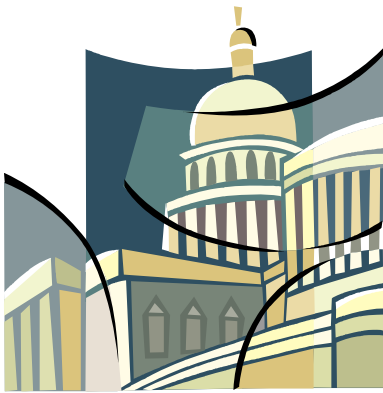
[http://portfocus.com/ united\\_states\\_america/index.html](http://portfocus.com/ united_states_america/index.html)

## Mid-Atlantic News

The Pew Environment Group called upon the Mid-Atlantic Fishery Management Council to diligently implement new federal requirements, effective February 17, 2009, designed to prevent overfishing and rebuild depleted fish populations. These rules correspond to 2006 congressional amendments to the Magnuson-Stevens Act, the nation's primary law governing management of U.S. fish populations. One key provision is to strengthen the role of science in fisheries management decisions and require that depleted fish populations are rebuilt as soon as possible. MARCOOS is instrumental in providing key environmental data necessary for wise decision-making.

See <http://www.endoverfishing.org/resources/MAFMCLetter3-9.pdf>.

### ON THE HILL

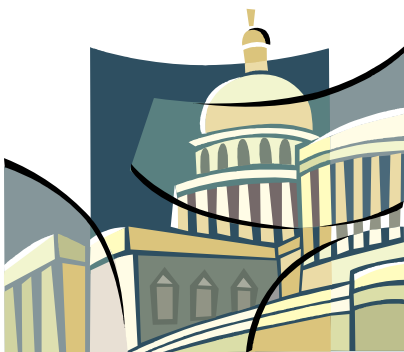


#### **HR 367, Integrated Coastal and Ocean Observation System Act of 2009' was introduced January, 2009.**

The bill was written to establish a national integrated system of ocean, coastal, and Great Lakes observing systems, and for other purposes. Sponsored by Lois Capps (D) CA, the house bill directs the President to establish a National Integrated Coastal and Ocean Observation System to: (1) support national defense, marine commerce, navigation safety, weather, climate, and marine forecasting, energy siting and production, economic development, ecosystem-based marine, coastal, and Great Lakes resource management, public safety and public outreach training and education; (2) promote awareness of ocean, coastal, and Great Lakes resources; (3) promote basic and applied scientific research; and (4) improve the ability to measure, track, explain, and predict weather and climate change and natural climate variability. Requires the National Ocean Research Leadership Council to serve as the System's policy and coordination oversight body. Requires the Council to establish or designate an Interagency Ocean Observation Committee to prepare annual and long-term plans and to take other actions.

The house bill: makes the National Oceanic and Atmospheric Administration (NOAA) the System's lead federal agency. Sets forth the requirements for a regional information coordination entity to be certified or established. Requires the Administrator to establish or designate a System Advisory Committee. Requires the Council to develop a policy that defines processes for making decisions about the roles of the federal government, states, regional information coordination entities, the academic community, and the private sector in providing to end-user communities environmental information, products, technologies, and services related to the System.

The house bill has been referred to the Subcommittee on Insular Affairs, Oceans and Wildlife, February 2009.



#### **S. 171, The Coastal and Ocean Observation System Act of 2009, was introduced January, 2009.**

The bill would develop and maintain an integrated system of coastal and ocean observations for the Nation's coasts, oceans, and Great Lakes, to improve warnings of tsunamis, hurricanes, El Nino events, and other natural hazards, to enhance homeland security, to support maritime operations, to improve management of coastal and marine resources.

The senate bill: directs the President, acting through the National Ocean Research Leadership Council, to establish and maintain an integrated system of coastal and ocean observations, data communication and management, analysis, modeling, research, education, and outreach for the timely detection and prediction of changes occurring in the ocean, coastal, and Great Lakes environments that impact the nation's social, economic, and ecological systems. Includes in the system a national program, a network of regional associations, data management, communication, and modeling systems, a research and development program, and a coordinated outreach, education, and training program. Makes the Council the oversight body for all aspects of the observing system. 1/8/2009.

The senate bill has been read twice and was referred to the Committee on Commerce, Science, and Transportation.

### A Successful year for MACOORA Members cont.

submersible vehicle, dye-release experiments, and numerical experiments to advance our understanding of lateral mixing, one of the most basic—and least understood—processes affecting the distribution of nutrients, plankton, and pollutants in the coastal ocean. Scientists at the SMAST have expertise in ocean modeling and prediction, ocean observation, fisheries science and management, coastal systems science, ocean acoustics, biogeochemistry, remote sensing, and ocean technology.

**Teledyne RD Instruments, [www.rdinstruments.com](http://www.rdinstruments.com)**, has been awarded ISO 9001:2008. Teledyne RD Instruments announced they achieved the ISO (International Organization for Standardization) 9001:2008 certification from Det Norske Veritas. Teledyne RD Instruments is one of a select number of companies to meet the stringent ISO 9001:2008 certification requirements. Find their latest newsletter at: [rdinstruments.com/newsletter/trdi\\_jan\\_news\\_0109.htm](http://rdinstruments.com/newsletter/trdi_jan_news_0109.htm)

**University of Connecticut, Marine Sciences: [www.marinesciences.uconn.edu/](http://www.marinesciences.uconn.edu/)**, Three Marine Sciences faculty have received the following honors and recognition of their professional distinction: Hans Dam - elected to the Connecticut Academy of Arts and Sciences; Pieter Visscher - elected to Connecticut Academy of Science and Engineering; and Bob Whitlatch - elected to Connecticut Academy of Science and Engineering. Visit the website to see the new Advanced Ocean Technology Seminar

**The University of Delaware College of Marine and Earth Studies** offers free guided tours of the Lewes campus to introduce the public to marine science and the research activities of the college. Online data can be found at: [www.ocean.udel.edu/research/data.shtml](http://www.ocean.udel.edu/research/data.shtml), [www.gosic.org/](http://www.gosic.org/)

**The Center for Coastal Observation and Modeling, [www.usna.edu/naoe/ccbom](http://www.usna.edu/naoe/ccbom)** is a multidisciplinary education and research center being formed at the U.S. Naval Academy by faculty members in four academic departments: Oceanography, Mathematics, Chemistry, and Naval Architecture and Ocean Engineering. This new center has two main objectives: to unite the capabilities of the Naval Academy faculty, students, staff, and facilities to support the Chesapeake Bay Observing System (CBOS) and to enhance the research opportunities for Naval Academy Midshipmen and faculty interested in oceanographic research. Be sure to visit their website.

**Codar. [www.codar.com](http://www.codar.com)**, has announced new Multi-Static Software for SeaSondes. Multi-static function is a straightforward augmentation that will allow expanded and improved current-mapping coverage inside a SeaSonde network. This patented technique has been under development at CODAR for over ten years and is now available for commercial release. Visit the website for a description of the technology and how it can be used to enhance both new and existing SeaSonde networks.



## MACOORA WELCOMES NEW EXECUTIVE DIRECTOR

Krauthamer joins MACOORA with over twenty five years of broad experience in association management, marine policy and ocean technology. Her highly diversified career portfolio includes expertise in organizational development, strategic planning, and alliance building in science, engineering, and technology (SET) communities. She is an association professional who has been employed as state government relations manager with the American Society of Mechanical Engineers, and most recently as executive director of the Marine Technology Society.

Krauthamer has a graduate degree from Texas A&M University in fisheries sciences and is a published author, editor and reviewer in popular literature formats and in peer-reviewed journals. Her work has appeared in *Associations Now*, a journal of the American Society of Association Executives, *Ecological Modeling*, and the *National Marine Fisheries Review*. She resides in Ellicott City, Maryland with her husband and son, where she volunteers as a judge with Capitol Debate, a nation-wide high school debating competition.

**For news, updates , links and more visit [www.macoora.org](http://www.macoora.org). Do you have an update, press release, or information to share? Please contact [info@macoora.org](mailto:info@macoora.org).**