

Water Quality Workshop

MACOORA - NERACOOS -SECOORA

IOOS, USGS, EPA, National Water Quality Network

When: January 25-26, 2010

Where: U.S. Geological Survey, Maryland-Delaware-D.C. Water Science Center, 5522 Research Park Drive, Baltimore MD, 21228

Workshop Summary: The purpose of the workshop is to explore integrated science-based solutions to address major water-quality issues and management in regions supported by the Mid-Atlantic Coastal Ocean Observing Regional Association, the Northeastern Regional Association of Coastal Ocean Observing Systems, and the Southeast Coastal Ocean Observing Regional Association. Key issues are dissolved oxygen depletion (hypoxia), harmful algal blooms and nutrient enrichment.

This one and one half-day workshop will provide an ideal forum for interactive discussions among scientists, managers, and policy makers, and lead to short and long term actions and projects. Using the technique of storyboards (see example story template on page 7), the workshop will highlight within each of the three IOOS regions success stories on how science-monitoring, assessments, and analysis tools are brought together with policy and management needs to improve water quality within watersheds, estuaries, near-shore environments, and the coasts.

Enhanced break-out sessions on the key issues will identify common needs and priorities (science, research, and management) across regions, as well as explore challenges and opportunities for monitoring, integrated assessments, data infrastructure and management, assessment and decision-making tools, and observational assets.

Outcome: To identify and leverage common approaches for enhanced and integrated data management, monitoring, research, and management strategies across the three regions, and to enhance collaborative projects among IOOS, federal agencies, other governmental agencies, and regional associations to address challenges in observations, research, and management needs.

Attendees: This workshop was designed for scientists, managers, and policy makers from the three regional observing associations, MACOORA, SECOORA and NERACOOS, and from Federal, State, and regional governmental agencies, non-governmental organizations, industry, universities, and the private sector. Participation is by invitation only through the respective IOOS Regional Association.

Hotels:

Hilton Baltimore BWI Airport, 1739 West Nursery Road, Linthicum Heights, Maryland 21090, 1-410-694-0808

Country Inn & Suites By Carlson, BWI Airport, 1717 W. Nursery Road, Linthicum Heights MD 21090, Reservations: 1-800-596-2375 US/Canada Toll-free, Telephone: (443) 577-1036 Fax: (443) 577-1037

Embassy Suites Baltimore at BWI Airport, 1300 Concourse Drive, Linthicum, Maryland, United States 21090, Tel: 1-410-850-0747

Cost: Workshop registration, lunches, coffee breaks and a light dinner are complimentary. Attendees are responsible for their hotel and travel arrangements and costs. For more information contact Eric Vowinkel of the U.S. Geological Survey at vowinkel@usgs.gov.



Water Quality Workshop Agenda
MACOORA -SECOORA –NERACOOS
IOOS, USGS, EPA, National Water Quality Network

January 25-26, 2010
U.S. Geological Survey Maryland-Delaware-D.C. Water Science Center
5522 Research Park Drive
Baltimore MD, 21228

To identify and leverage common approaches for enhanced and integrated data management, monitoring, research, and management strategies across the three regions, and to enhance collaborative projects among IOOS, federal agencies, other governmental agencies, and regional associations to address challenges in observations, research, and management needs.

January 25	<i>Item</i>	<i>Speaker/Facilitator</i>
MONDAY		
12:00-12:15	Meet & greet in main conference room	
12:15-1:15	WORKING LUNCH	
12:30-12:35 12:35-12:45 12:45-12:55	Welcome Multi-agency collaboration and capacity building IOOS and collaboration	Judy Krauthamer, MACOORA Pixie Hamilton, USGS Zdenka Willis, IOOS
12:55-1:25	Participant Introductions Name, affiliation, what is your goal [what do you hope to accomplish] for attending this workshop?	Participants
1:25-1:50	Development of success story boards on integrated water-quality applications with example	Robert Tudor, DRBC
1:50-2:20	<u>NERACOOS Speakers:</u> Using multiple lines of information to develop eelgrass-based nutrient criteria for New Hampshire's Great Bay Estuary IOOS data to improve water quality models	Ru Morrison, NERACOOS, and Paul Currier, NDES Jim O'Donnell, UCONN
2:20-2:50	<u>SECOORA Speakers:</u> Recreational Beach Bacteria Modeling and Forecasting and Consequences to Public Health Examples of Spatial and Ecosystems Connectivity across the West Florida Shelf and the Southeast U.S.	Shannon Berry, SCDHEC, and Heath Kelsey, UMCES-NOAA Partnership Bob Weisberg, U. of So. Fl
2:50-3:10	Coffee Break/interact	
3:10-3:40	<u>MACOORA Speakers:</u> Remote Sensing for HAB Monitoring in New Jersey Coastal Waters Spatial and temporal dissolved oxygen concentrations and oxygen depletion in the Delaware River Basin	Bob Connell, NJDEP Eric Vowinkel, USGS

3:40-4:10	Data Integration and Exchange	Tom Shyka, GMRI, and Nate Booth, USGS
4:10-5:00	Group discussion and brainstorming of success stories with wrap-up	Pixie Hamilton, USGS
5:15-7:00	Networking with Light DINNER	
January 26		
TUESDAY		
8:30-8:45	Instructions and charge for breakout groups on enhancing science and tools for management and policy	Robert Tudor, DRBC
8:45-10:00	Breakout groups Dissolved oxygen and nutrient enrichment	Facilitator: Pixie Hamilton, USGS, with Tracy Hancock, USGS
8:45-10:00	Harmful algal blooms	Facilitator: Gabrielle Canonico, NOAA, with Rob Ragsdale, NOAA
8:45-10:00	Beach health issues and floatables	Facilitator: Debra Hernandez, SECOORA, Dwayne Porter, USC
10:00-10:30	Coffee Break	
10:30-12:00	Breakout sessions	
12:00-1:00	LUNCH	
1:00-2:00	Meeting re-convenes: moderators present	Moderators
2:00-2:45	Next steps, actions, and consideration of joint pilot project to be presented at 2010 National Monitoring Conference	Group discussion; Facilitation by Pixie Hamilton, USGS
2:45-3:00	Coffee Break	
3:00-3:45	Continuation of next steps, actions, and wrap-up with closing comments regarding how to adjust science to benefit management decisions	Group discussion; Facilitation by Pixie Hamilton, USGS

Break-Out Guidelines

<p>Purpose of break-out</p>	<ol style="list-style-type: none"> 1) Identify common needs and priorities (science, research, and management) across regions 2) Identify specific monitoring, data infrastructure and management, observations, assessment techniques, and applications/tools needed to address the priorities 3) Identify options and opportunities for leveraging common approaches for enhanced and integrated data management, monitoring, research, and management strategies across the three regions. 4) Develop short “Plans of Action” to enhance collaborative projects among IOOS, federal agencies, and regional associations. Who? What? When? How?
<p>Discussion Items</p>	<ol style="list-style-type: none"> 1) Success stories on how science— including monitoring, data infrastructure, new technology, assessments, and analysis tools—are brought together with policy and management decisions to improve water quality within watersheds, estuaries, near shore environments, and the coasts. 2) Current scientific and monitoring capabilities, assessment and decision-making tools, observational assets, and data infrastructure—along with associated opportunities, challenges, and gaps in addressing management and policy issues. 3) Objectives and issues addressed by individual programs and monitoring designs, and the opportunities and challenges in the integration of diverse data from multiple sources and designs. 4) How management and policy decisions currently are made and the regulations and criteria guiding those decisions.