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MARCOOS – YEAR 5 Proposal

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Judith T. Krauthamer, Executive Director
Mid-Atlantic Coastal Ocean Observing Regional Association (MACOORA)
Mid-Atlantic Regional Coastal Ocean Observing System (MARCOOS)
Box 6879
Ellicott City MD 21042

August 17, 2010

Dear Judith,

This is a letter of support for the Mid-Atlantic Coastal Ocean Observing Regional Association and Ocean Observing System proposal to the FY 2011 Implementation of the U.S. Integrated Ocean Observing System (IOOS). As the Director of New York Sea Grant (NYSG), I believe that MARCOORA/MARCOOS will continue to provide a vital, regional backbone for many sub-regional and local efforts being conducted from Massachusetts through North Carolina. The association and its operating arm combined provide vital products and services in Maritime Safety, Ecosystem-Based Management, Water Quality, Coastal Inundation and Offshore Energy from which we benefit.

The products and services provided by MARCOORA/MARCOOS provide information important to NYSG research and outreach efforts, including those in major estuaries like Long Island Sound. With the exception of Maritime Safety, all of the product areas listed above are either focus areas or components of focus areas of the NYSG Strategic Plan. I expect that this information will become even more important in the future, especially as Coastal and Marine Spatial Planning progresses in this region. Such information will be used by our researchers, extension staff, and stakeholders.

I strongly endorse the support for a fully-developed MACOORA/MARCOOS observing system that builds on the existing federal-regional partnerships and continues to develop new partnerships.

Sincerely,

A handwritten signature in black ink, appearing to read "James W. Ammerman".

James W. Ammerman
Director, New York Sea Grant

Chesapeake Research Consortium, Inc.
645 Contees Wharf Road
Edgewater, MD 21037
(410) 798-1283
(301) 261-4500
FAX: (410) 798-0816
www.chesapeake.org



The Johns Hopkins University
The University System of Maryland
Smithsonian Institution
Old Dominion University
Pennsylvania State University
Virginia Institute of Marine Science

12 January 2010

To Whom It May Concern:

As Executive Director of the Chesapeake Research Consortium (CRC), I am writing to support the Mid-Atlantic Coastal Ocean Observing Regional Association (MACOORA) and the national Integrated Ocean Observing System (IOOS) in their efforts to provide timely and reliable oceanographic information. The CRC is a partnership of six leading research institutions in the Chesapeake basin, from Pennsylvania State University in the north to Old Dominion University at the mouth of the Bay. The CRC and its members actively assess ecosystem dynamics, water quality, and living resource stocks and production, and as such a sustained coastal ocean observing system would provide a backbone of universally critical information for this research and the science-based management of the system that the research informs.

CRC staff work with our research scientists to produce comprehensive data sets, interpreted results, and informed advice on characteristics and dynamics of land use, basin-wide hydrologies, nutrient loads and sources, and system processing and living resource production. At the core of these focused activities are base measurements of temperature, salinity, dissolved oxygen, light, and chlorophyll that are easily derived from remotely moored sensor packages on buoys, static structures, autonomous vehicles, and aerial or space flight systems. CRC strongly supports a national fiscal commitment to a sustained system of remote sensors in a coastal ocean observing system, and encourages annual appropriations to provide these base measurements fundamental to research, managing our coastal systems, guiding maritime traffic, insuring public health, and safeguarding our shores.

For the Consortium, I strongly endorse support of a fully-developed observing system that builds on the existing federal-regional partnerships. We have a prototypical capacity here in the Chesapeake that complements similar systems along the mid-Atlantic, housed in the Mid-Atlantic Coastal Ocean Observing Regional Association. This regional association and its members can be the region's safety net, with your commitment over the next few years.

Sincerely,

A handwritten signature in black ink, appearing to read 'Kevin G. Sellner', written in a cursive style.

Kevin G. Sellner
Executive Director

cc: JK,ES
file



Sea Grant College Program
Marine Advisory Service

University of Delaware
Hugh R. Sharp Campus
700 Pilottown Road
Lewes, DE 19958-1298

January 25, 2010

To Whom It May Concern:

The Delaware Sea Grant Program is writing to support the Mid-Atlantic Coastal Ocean Observing Regional Association (MACOORA) and the national Integrated Ocean Observing System (IOOS) in their efforts to provide timely and reliable oceanographic information. Delaware Sea Grant's mission is to advance the understanding, development, use, and conservation of state and regional marine and coastal resources through an integrated program of excellence in research, education, and outreach built upon active partnerships with state and federal agencies, the private sector and citizens at large.

We have been a member of MACOORA since its inception and we have invested significant resources to support research projects that help to enhance the MACOORA mission. One current project is incorporating surface circulation data remotely accessed via satellites into ocean observation systems in Delaware Bay and the adjacent coastal zone. The information can be used by resource managers to improve ecosystem-based management.

As observing information becomes more plentiful and user-friendly, our goal is to partner with MACOORA and utilize our staff of Sea Grant marine extension specialists to help deliver and transfer information to targeted users. Decision makers in coastal communities, lifeguard organizations, boaters, and others can all benefit from being educated about the many useful products and services that ocean observing systems can provide. Much of this information can help communities become more hazard resilient, save lives and property, and reduce the economic burdens coastal communities face as storms and other natural disasters threaten their shores.

I strongly endorse the support for a fully-developed observing system that builds on the existing federal-regional partnerships. Delaware Sea Grant is committed to partnering with MACOORA, and other regional associations, in numerous ways to help insure coastal communities remain safe and vibrant.

Sincerely,

A handwritten signature in blue ink that reads "James M. Falk".

James M. Falk
Associate Director
Delaware Sea Grant College Program



26 January 2010

To Whom It May Concern:

New Jersey Marine Sciences Consortium/New Jersey Sea Grant (NJMSC/NJSG) is writing to support the Mid-Atlantic Coastal Ocean Observing Regional Association (MACOORA) and the national Integrated Ocean Observing System (IOOS) in their efforts to provide timely and reliable oceanographic information. NJMSC/NJSG and its 22 member institutions promote responsible use of New Jersey's coastal and marine environment through research, education and extension. NJMSC/NJSG is a charter member of MACOORA and seeks to support MACOORA activities through outreach.

Our Coastal Processes Specialist makes hazard resilience assessments that frequently rely on inundation models provided by MACOORA. Rutgers University, a member institution, receives operational support from an expanded MARCOOS to make predictions regarding search and rescue and pollutant dispersion. NJMSC/NJSG has provided research funding to Rutgers University that may ultimately assist in rip current forecasts across the region. In the future, a fully engaged MACOORA will allow NJMSC/NJSG's coastal stakeholders the opportunity to reduce public health risks, improve boater safety, and improve coastal land use planning.

I strongly endorse the support for a fully-developed observing system that builds on the exiting federal-regional partnerships. Please do not hesitate to contact me if you have any questions.

Sincerely,

A handwritten signature in black ink that reads "Peter M. Rowe".

Peter M. Rowe, Ph.D.
Director, New Jersey Sea Grant



State of New Jersey

DEPARTMENT OF TRANSPORTATION
1035 Parkway Avenue
PO Box 600
Trenton, New Jersey 08625-0600

Jon Corzine
Governor

Stephen Dilts
Commissioner

January 13, 2010

To Whom It May Concern:

The NJDOT Office of Maritime Resources (NJDOT/OMR) is writing to support the Mid-Atlantic Coastal Ocean Observing Regional Association (MACOORA) and the national Integrated Ocean Observing System (IOOS) in their efforts to provide timely and reliable oceanographic information. NJDOT/OMR is the single state agency charged to support New Jersey's maritime and marine trades industry. NJDOT/OMR has a mandate to advance statewide maritime development initiatives and technologies, plan for maritime systems, ensure safe navigability of state waterways, enhance New Jersey's marine environment, foster maritime education, and provide overall support functions to the maritime industry in close coordination with other state and Federal agencies. As Acting Manager of the Office, I support the mission of the MACOORA and was recently nominated to the Board of Directors.

NJDOT/OMR is quite interested and involved in technology program development and as such has been a partner in the NOAA/PORTS for many years. This Office independently funds real-time information, data collection and forecasting systems through partnerships with universities, such as the Stevens Institute of Technology Center for Maritime Systems. Technology helps to ensure the safety of both recreational and commercial mariners, and can provide information integral to the safety and security of the state and nation.

Looking to the future, NJDOT/OMR would like to establish better working relationships with Federal agencies, such as NOAA, and to see evidence of flexibility in administrative practices that allow for more efficient sharing of information. With this in mind, I strongly endorse the support for a fully-developed observing system that builds on the exiting federal-regional partnerships.

Sincerely,

Genevieve Boehm Clifton
Acting Manager
NJDOT Office of Maritime Resources



January 27, 2010

To Whom It May Concern:

The College of Earth, Ocean, and Environment of the University of Delaware is writing to support the Mid-Atlantic Coastal Ocean Observing Regional Association (MACOORA) and the national Integrated Ocean Observing System (IOOS) in their efforts to provide timely and reliable oceanographic information. The mission of the University of Delaware College of Earth, Ocean, and Environment (CEOE) is to advance understanding of Earth's natural systems and the interactions of humans with the environment through engaged interdisciplinary research, teaching, and outreach. The University of Delaware is a MACOORA member institution.

Our College is a leader in the area of environmental observing. We currently support programs that include coastal radar that monitors currents at the mouth of Delaware Bay, the Delaware Environmental Observing System a land-based (and coastal) network of 44 environmental monitoring platforms throughout the Delmarva Region, The RV Hugh R. Sharp a state-of-the-art research vessel that serves researchers from all oceanography disciplines, the monitoring efforts of the Delaware Geological Survey (stream flow, tide heights, well levels, water quality) and numerous other monitoring efforts along the Mid-Atlantic coast. With the installation of new real-time polar orbiting and geosynchronous satellite receiving stations and the formation of a new Center for Environmental Observations within the College, our efforts in environmental observing will continue to grow into the future. These efforts already support basic and applied science, the mission of numerous state agencies, and the people of Delaware.

I strongly endorse the support for a fully-developed observing system that builds on the existing federal-regional partnerships. I hope that this letter is helpful in your deliberations.

Sincerely,

Daniel J. Leathers

Daniel J. Leathers
Deputy Dean
College of Earth, Ocean, and Environment



Applied Science Associates, Inc.
55 Village Square Drive
South Kingstown, RI 02879 USA
phone: +1 401 789-6224
fax: +1 401 789-1932

ASA Offices:
Seattle, WA USA
São Paulo, Brazil
Gold Coast, Australia
Perth, Australia

www.asascience.com

January 27, 2010

To Whom It May Concern:

Applied Science Associates, Inc. is writing to support the Mid-Atlantic Coastal Ocean Observing Regional Association (MACOORA) and the national Integrated Ocean Observing System (IOOS) in their efforts to provide timely and reliable oceanographic information. ASA is a global science and technology solutions company. Through consulting, environmental modeling, and application development, ASA helps a diverse range of clients in government, industry, and academia investigate their issues of concern and obtain functional answers. ASA supports Macoora's data management activities and is a bridge between the Macoora ocean data with federal agencies, including the U.S Coast Guard and NOAA.

Some of the data that Macoora provides is used directly by the United States Coast Guard through the Environmental Data Server (EDS) for search and rescue purposes. It is an important component of the regional data required by the Coast Guard. In addition, ASA plays a data management role in NOAA's Chesapeake Bay Inundation System (CIPS) and it is important that large and regional scale model data and observations are available to improve inundation predictions in Chesapeake Bay.

I strongly endorse the support for a fully-developed observing system that builds on the existing federal-regional partnerships.

Sincerely,

A handwritten signature in blue ink, appearing to read 'Eoin Howlett', is written over a light blue grid pattern.

Eoin Howlett
President / CEO



Judith T. Krauthamer, Executive Director
Mid-Atlantic Coastal Ocean Observing Regional Association (MACOORA)
Mid-Atlantic Regional Coastal Ocean Observing System (MARCOOS)
Box 6879
Ellicott city MD 21042

August 26, 2010

Dear Judith,

I am writing to express support for the Mid-Atlantic Coastal Ocean Observing Regional Association and Ocean Observing System proposal to the funding grant, FY 2011 Implementation of the U.S. Integrated Ocean Observing System (IOOS). We believe MARCOORA/MARCOOS will continue to provide a vital, regional backbone for many sub-regional and local efforts being conducted from Massachusetts through North Carolina. The association and its operating arm combined provide vital products and services in Maritime Safety, Ecosystem-Based Management, Water Quality, Coastal Inundation and Offshore Energy from which we benefit.

The Ocean Circulation Group within the CMS-USF, engages in physical oceanographic studies of the ocean circulation and the interactions between the oceans and atmosphere. Present emphases are on the West Florida Continental Shelf (WFS), the broad, coastal ocean region between the shoreline and the deep Gulf of Mexico, where the circulation provides the connectivity, which is of fundamental importance to all aspects of ecology. Our approach includes a coordinated program of coastal ocean observations and numerical circulation models. We recognize that there can never be enough observations and that models alone are of limited use. It is through the coordination of these activities that we achieve an improved understanding on the workings of the coastal ocean. Our observational program includes the use of moored buoys, hf-radar and a combination of profilers and gliders (joint with the CMS Center for Ocean Technology).

I strongly endorse the support for a fully-developed MACOORA/MARCOOS observing system that builds on the exiting federal-regional partnerships.

Sincerely,

A handwritten signature in blue ink, appearing to read "RD Cole II", is written over a light blue horizontal line.

Rick Cole
Ocean Circulation Group



Delaware River Basin Commission

25 State Police Drive

PO Box 7360

West Trenton, New Jersey

08628-0360

Phone: (609) 883-9500 Fax: (609) 883-9522

Web Site: <http://www.drbc.net>

Carol R. Collier

Executive Director

Robert Tudor

Deputy Executive Director

August 23, 2010

Judith T. Krauthamer, Executive Director
Mid-Atlantic Coastal Ocean Observing Regional Association (MACOORA)
Mid-Atlantic Regional Coastal Ocean Observing System (MARCOOS)
P.O. Box 6879
Ellicott City, MD 21042

Dear Judith,

I am writing to express support for the Mid-Atlantic Coastal Ocean Observing Regional Association and Ocean Observing System proposal to the funding grant, FY 2011 Implementation of the U.S. Integrated Ocean Observing System (IOOS). We believe MARCOORA/MARCOOS will continue to provide a vital, regional backbone for many sub-regional and local efforts being conducted from Massachusetts through North Carolina. The association and its operating arm combined provide vital products and services in Maritime Safety, Ecosystem-Based Management, Water Quality, Coastal Inundation and Offshore Energy from which we benefit.

The Delaware River Basin Commission (DRBC) is a federal-interstate government agency responsible for managing the water resources within the 13,539 square-mile Delaware River Basin without regard to political boundaries. Its ex-officio members are the governors of the four basin states (Delaware, New Jersey, New York, and Pennsylvania) and the Division Engineer, North Atlantic Division, U.S. Army Corps of Engineers, who serves as the federal representative. The 1961 compact creating the commission provides for the joint exercise of sovereign powers over the water resources of the basin and the DRBC is one of only two federal-interstate compact commissions in the nation. The Delaware is the only river basin with both a federal-interstate commission and a national estuary program in place. Our institutional arrangement facilitates coordination among federal and state agencies concerned with water management, and as a result conserves scarce resources, avoids duplication of effort, enables complementary programs to be developed, and maximizes efficiencies.

DRBC uses information products that enhance water quality decision support systems. These relate to the National Water Quality Monitoring Network Design, Early Warning Systems, Spill Response and anomalous water quality events. DRBC is also interested in natural hazard preparedness and work products focused on Coastal Inundation--- particularly products that link real time weather information to models to warning systems for emergency managers.

I strongly endorse the support for a fully-developed MACOORA/MARCOOS observing system that builds on the existing federal-regional partnerships. A signature feature of MACOORA relative to the other 12 Regional Associations involves its attention and service to Sub-basins and recognitions from a "systems management" perspective of the connection between watersheds, estuaries and ocean environments.

Sincerely,

A handwritten signature in black ink that reads 'Robert Tudor'. The signature is fluid and cursive, with a long, sweeping underline that extends to the left.

Robert Tudor
Deputy Executive Director

**THE MARITIME ASSOCIATION
OF THE
PORT OF NEW YORK/NEW JERSEY**

Since 1873



PRESIDENT

William Rooney
Hanjin Shipping America

VICE PRESIDENT

Brian McAllister
McAllister Towing and
Transportation

TREASURER

Karl Kieninger

Hydro Marine

SECRETARY

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New York Container
Terminal, Inc.

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Journal of Commerce

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Hoegh Autoliners Inc

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AECOM

Timothy Ferrie
Sandy Hook Pilots

Joseph Hughes
Shipowners Claims Bureau

Steven Kalll
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Repair Co., Inc.

Peter Keyes
Moran Towing Corp.

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The Lambos Firm
Markos Marinakis
Marinakis Chartering, Inc.

James McNamara
National Cargo Bureau,
Inc.

John Morris
International
Transportation Solutions,
Inc.

Carlo Ruggiero
Ruggiero & Ogle
Motorship Agency, Inc.

Richard Sabatini
Staten Island Terminal,
LLC

Thomas Simmers
Ceres Terminals Inc.

Kenneth Spahn
Port Authority of NY & NJ
Anil Vitarana
United Arab Agencies Inc.

Counsel

Ernesto Luzzatto, Esq.
Hill Rivkins & Hayden

Executive Director

Edward J. Kelly

Judith T. Krauthamer, Executive Director
Mid-Atlantic Coastal Ocean Observing Regional Association (MACOORA)
Mid-Atlantic Regional Coastal Ocean Observing System (MARCOOS)
Box 6879
Ellicott City, MD 21042

August 24, 2010

Dear Judith,

I am writing to express support for the Mid-Atlantic Coastal Ocean Observing Regional Association and Ocean Observing System proposal to the funding grant, FY 2011 Implementation of the U.S. Integrated Ocean Observing System (IOOS). We believe MACOORA/MARCOOS will continue to provide a vital, regional backbone for many sub-regional and local efforts being conducted from Massachusetts through North Carolina. The association and its operating arm combined provide vital data, products and outreach services in Maritime Safety, Ecological Decision Support, Water Quality, Coastal Inundation and Offshore Energy from which we benefit.

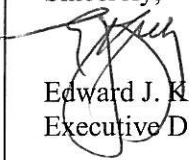
The Maritime Association of the Port of NY/NJ is comprised of over 500 paid corporate and individual members who are involved in the commercial maritime industry in the Port. Our membership includes such concerns as international ship operators, marine terminal operators, tug and barge operators, admiralty attorneys, organized longshore labor, marine underwriters, harbor truckers, and others. Since 1873 the Maritime Association has promoted the safety of navigation, the security of marine assets and properties, the sustainability of our marine environment, and the economic competitiveness of our Port.

The members of our Maritime Association are essential stakeholders in ensuring a safe, sustainable marine environment. We believe that MACOORA/MARCOOS has enormous capability to develop and sustain practical observing and modeling systems that will contribute to improving the safety of navigation and the sustainability of the marine environment that is essential to our operations.

The success of the Search and Rescue program and the potential to significantly expand and improve the PORTS network are clear indicators of how MACOORA/MARCOOS can be of great use and value to the maritime industry.

I strongly endorse the support for a fully-developed MACOORA/MARCOOS observing system that builds on the exiting federal-regional partnerships.

Sincerely,


Edward J. Kelly
Executive Director



UNITED STATES DEPARTMENT OF COMMERCE
National Oceanic and Atmospheric Administration
NATIONAL MARINE FISHERIES SERVICE
Northeast Fisheries Science Center
James J. Howard Marine Sciences Laboratory
74 Magruder Road
Highlands, New Jersey 07732

Judith T. Krauthamer, Executive Director
Mid-Atlantic Coastal Ocean Observing Regional Association (MACOORA)
Mid-Atlantic Regional Coastal Ocean Observing System (MARCOOS)
Box 6879
Ellicott city MD 21042

8/24/2010

Dear Judith,

I am writing to express support for the Mid-Atlantic Coastal Ocean Observing Regional Association and Ocean Observing System proposal to the funding grant, FY 2011 Implementation of the U.S. Integrated Ocean Observing System (IOOS). We believe MARCOORA/MARCOOS will continue to provide a vital, regional backbone for many sub-regional and local efforts being conducted from Massachusetts through North Carolina. The association and its operating arm combined provide vital products and services in Maritime Safety, Ecosystem-Based Management, Water Quality, Coastal Inundation and Offshore Energy from which we benefit.

I currently work as a research biologist for the North East Fisheries Science Center/National Marine Fisheries Service/NOAA with a specialty in marine habitat science. MACOORA's data streams have been extremely valuable to us in retrospective analysis of regional scale patterns of habitat use by ecologically important fish and invertebrates in the Mid-Atlantic Bight Ecosystem and in adaptive sampling fundamental habitat specific processes. We have used archived satellite and HF radar data to develop IOOS informed habitat models for a number of species including Long fin inshore squid and butterfish which are an important bicatch species in the squid fishery. We are further refining these IOOS informed models to identify how the two species partition ocean habitats, with the intent that the models can be used to develop effective strategies to mitigate bi-catch. We are currently performing field surveys of habitat specific processes by sampling dynamics fish and their "habitats" in a dynamics ocean described and forecast for us in real time on our research vessels with the MARCOOS NYHOPs model and other remote sensing assets. This type of adaptive field study would be impossible without the remotely sensed ocean data and the NYHOPs model which we are finding to be remarkable accurate. I believe the observatory will prove to be the essential backbone of a state of the art adaptive space based ecosystem management in Region

I strongly endorse the support for a fully-developed MACOORA/MARCOOS observing system that builds on the exiting federal-regional partnerships.



Sincerely,

John P. Manderson PhD

Behavioral Ecology Branch

Ecosystems Processes Division

NEFSC/NMFS/NOAA

James J. Howard Marine Sciences Laboratory

74 Magruder Rd

Highlands, New Jersey, 07732

USA

Email: john.manderson@noaa.gov

Tele: 732-872-3057

Fax: 732-872-3128



Information Contained Herein is Confidential and Proprietary

Judith T. Krauthamer, Executive Director
Mid-Atlantic Coastal Ocean Observing Regional Association (MACOORA)
Mid-Atlantic Regional Coastal Ocean Observing System (MARCOOS)
Box 6879
Ellicott City MD 21042

16 August 2010

Dear Judith,

I am writing to express support for the Mid-Atlantic Coastal Ocean Observing Regional Association and Ocean Observing System proposal to the funding grant, FY 2011 Implementation of the U.S. Integrated Ocean Observing System (IOOS). We believe MARCOORA/MARCOOS will continue to provide a vital, regional backbone for many sub-regional and local efforts being conducted from Massachusetts through North Carolina. The association and its operating arm combined provide vital products and services in Maritime Safety, Ecosystem-Based Management, Water Quality, Coastal Inundation and Offshore Energy from which we benefit.

CARIS develops and supports rigorous, technologically advanced geomatics software in our core disciplines of hydrographic, bathymetric, land information systems and spatial enabled Internet technologies. Our systems give value to spatial data and empower our customers and decision makers with information that is meaningful. Hydrographic Offices and Navies from over 70 countries including the USA are now standardized on CARIS systems for their marine spatial information and chart production systems.

CARIS strongly endorses IOOS MACOORA as a key component for the development of a Marine Spatial Data Infrastructure (MSDI) which will act as the catalyst for the development of capability and capacity to deliver an integrated approach to the management of the coastal zone, oceans and seas. Such development can only be achieved through a partnership approach involving decision makers, planners, scientists, technologists and users that is designed to drive real efficiencies in operations and activities and so deliver significant benefits to government, commerce and the citizen at large.

I strongly endorse the support for a fully-developed MACOORA/MARCOOS observing system that builds on the existing federal-regional partnerships.

Sincerely,



Paul R. Cooper
Vice President
CARIS USA Inc

Commercial-in-Confidence



Martin O'Malley, *Governor*
Anthony G. Brown, *Lt. Governor*

State Highway
Administration

Beverley K. Swaim-Staley, *Secretary*
Neil J. Pedersen, *Administrator*

Maryland Department of Transportation

August 24, 2010

Mr. Judith T. Krauthamer, Executive Director
Mid-Atlantic Coastal Ocean Observing Regional Association (MACOORA)
Mid-Atlantic Regional Coastal Ocean Observing System (MARCOOS)
Box 6879
Ellicott City, MD 21042

Dear Judith:

I am writing to express support for the Mid-Atlantic Coastal Ocean Observing Regional Association and Ocean Observing System proposal to the funding grant, FY 2011 Implementation of the U.S. Integrated Ocean Observing System (IOOS). We believe MARCOORA/MARCOOS will continue to provide a vital, regional backbone for many sub-regional and local efforts being conducted from Massachusetts through North Carolina. The association and its operating arm combined provide vital products and services in Maritime Safety, Ecosystem-Based Management, Water Quality, Coastal Inundation and Offshore Energy from which we benefit.

The Maryland Department of Transportation (MDOT) State Highway Administration (SHA) is responsible for constructing, managing and maintaining State highways and bridges. This includes emergency traffic management to support local or regional evacuations, and emergency response to repair highways and bridges damaged by storm inundation or erosion. Forecasts, observations and data provided by MACOORA on waves, wind, water levels, and precipitation before, during and after storms are essential to our ability to support and assist first responders. Additionally these forecast allow us to pre-identify potential areas for inundation and erosion. We look forward to supporting your continued operations.

Sincerely,

A handwritten signature in black ink, appearing to read 'J. M. Geckle'.

Mr. Joseph M. Geckle
Homeland Security Coordinator
Maryland State Highway Administration

My telephone number is _____

Maryland Relay Service for Impaired Hearing or Speech: 1.800.735.2258 Statewide toll free

Street Address: Office of Maintenance, 7491 Connelley Drive, Hanover, Maryland 21076

www.marylandroads.com Toll Free (MD Only): 1.877.624.6863



TELEDYNE RD INSTRUMENTS

A Teledyne Technologies Company
14020 Stowe Dr.
Poway, CA 92064
USA

Judith T. Krauthamer, Executive Director
Mid-Atlantic Coastal Ocean Observing Regional Association (MACOORA)
Mid-Atlantic Regional Coastal Ocean Observing System (MARCOOS)
Box 6879
Ellicott city MD 21042

August 17, 2010

Dear Judith,

I am writing to express support for the Mid-Atlantic Coastal Ocean Observing Regional Association and Ocean Observing System proposal to the funding grant, FY 2011 Implementation of the U.S. Integrated Ocean Observing System (IOOS). We believe MARCOORA/MARCOOS will continue to provide a vital, regional backbone for many sub-regional and local efforts being conducted from Massachusetts through North Carolina. The association and its operating arm combined provide vital data, products and outreach services in Maritime Safety, Ecological Decision Support, Water Quality, Coastal Inundation and Offshore Energy from which we benefit.

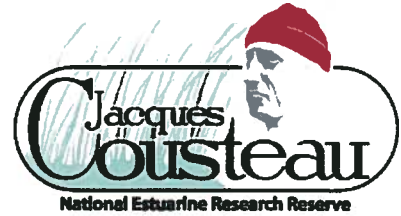
Teledyne RD Instruments (TRDI), located in San Diego, CA, specializes in the design and manufacture of underwater acoustic Doppler and CTD products for a wide array of current profiling, precision navigation, and chemical measurement applications. Our products are used extensively by scientists around the globe to gain a better understanding of the dynamic ocean environment, and have become a key component of ocean observing systems. We take great pride in the data we provide to aid in the global quest to better understand our world's oceans, and their impact on the health and prosperity of our planet. (For more details visit www.rdinstruments.com.)

TRDI has been a member and associated with MACOORA/MARCOOS for many years. We're obviously familiar with your organization's extensive work with IOOS; however, your organization also proved to be an invaluable resource for information pertaining to the Gulf Of Mexico following the BP incident.

Our organization strongly endorses the support for a fully-developed MACOORA/MARCOOS observing system that builds on the exiting federal-regional partnerships.

Sincerely,

Darryl R. Symonds
Director of Marine Measurements Product Lines
Teledyne RD Instruments
www.rdinstruments.com



Jacques Cousteau National Estuarine Research Reserve
Coastal Education Center
130 Great Bay Blvd • Tuckerton, NJ 08087
Phone: 609-812-0649 Fax: 609-294-8597
www.jcnerr.org

September 8, 2010

Judith T. Krauthamer, Executive Director
Mid-Atlantic Coastal Ocean Observing regional Association
Mid-Atlantic Regional Coastal Ocean Observing System
Box 6879
Ellicott City, Maryland 21042

Dear Judith,

As a science manager at a marine research institution, and manager of a marine protected area--the Jacques Cousteau National Estuarine Research Reserve, I strongly endorse continued support for MACOORA and MARCOOS. These organizations provide timely, relevant science-based information that is being used to inform environmental decision-making. MACOORA and its associated operating association, MARCOOS, contribute data products and services that have helped communities prepare for and respond to storm events, helped government agencies address problems associated with water quality, and improved safety of maritime operations. From my own perspective, information from MACOORA/MARCOOS has been used to forecast storm impacts, informed several initiatives aimed at helping coastal communities develop adaptation strategies in response to rising sea level, and has aided decision-making associated with future sites for offshore energy facilities.

I strongly support continued funding for MACOORA/MARCOOS at full operations. Such support is essential to leverage the capacity of existing federal-regional partnerships on behalf of user needs in the Mid-Atlantic region.

Sincerely,

A handwritten signature in blue ink that reads "Mike DeLuca".

Michael P. De Luca
Senior Associate Director, IMCS
Manager, Jacques Cousteau NERR