

**NOAA Coastal Services Center  
Annual Operating Plan**

**Fiscal Year 2007**

**(January 2007)**

## **About This Document**

This is the Annual Operating Plan (AOP) for activities of the National Oceanic and Atmospheric Administration (NOAA) Coastal Services Center (CSC or Center) in Fiscal Year (FY) 2007. It is primarily an internal NOAA document that provides information for the reader on the Center's mission, organization, program emphases, Line Office interactions, and project milestones. Many of the activities are undertaken in collaboration with partners from the NOAA line offices—NOAA Ocean Service (NOS or NOAA Oceans and Coasts), National Environmental Satellite, Data, and Information Service (NESDIS), Office of Oceanic and Atmospheric Research (OAR or NOAA Research), National Marine Fisheries Service (NMFS or NOAA Fisheries), National Weather Service (NWS), and Program Planning and Integration (PPI)—and other public and private coastal resource management interests. You may address questions about this document to Dr. Jeffrey L. Payne, Deputy Director, NOAA Coastal Services Center, at (843) 740-1200, or via e-mail at *Jeff.Payne@noaa.gov*.

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## Introduction

### Mission

The mission of the National Oceanic and Atmospheric Administration (NOAA) Coastal Services Center (Center) is to support the environmental, social, and economic well being of the coast by linking people, information, and technology. To learn more about the Center and these efforts, visit [www.csc.noaa.gov](http://www.csc.noaa.gov).

### Core Values

- Commit to **high-quality** products and services that positively influence coastal decision making
- Catalyze **innovation and progressive change** in the coastal management community
- Achieve success through **collaboration**, internal teamwork, and external partnership building
- Ensure continuing relevance through critical **evaluation and adaptive behavior**
- **Respect all** employees and customers, including their views and differences

### Customers and Partners

#### Primary Customers

- **State and local coastal resource managers**

State and local programs are often at the forefront of the nation's efforts to preserve coastal resources, promote responsible development, implement best practices, and build capacity to respond to and recover from coastal hazards. The Center works with constituents to address specific coastal issues, as well as addressing collective concerns through products developed for use by a broader range of constituents.

Members of constituency include local and state governments, regulatory programs, protected areas, wildlife agencies, Sea Grant programs, planners, scientists, emergency preparedness officials, land conservation organizations, non-profit organizations, and other organizations whose efforts impact the well being of the coast.

#### Primary Partners

- **Local, state, and federal government organizations**
- **Nonprofits**
- **Private companies**
- **Academia**

Partnership and collaboration are cornerstone values of the Center. It is only through bringing together the expertise, money, and efforts of a variety of organizations that big impacts can occur. Bringing together different groups to work toward a common cause is a frequent theme that flows through most Center efforts. These collaborations reach throughout NOAA and include the types of organizations listed above.

## **Strategic Assessment**

The Center's orientation to customers is a guiding force in the organization. The Center approaches each project and service from the customer's perspective. Customer input is solicited for refining program emphases and for identifying and designing projects through surveys, needs assessments, workshops, evaluations, and direct interactions. Projects undertaken have a defined end user and clear utility, and are conducted in partnership with users and enablers. The results are then shared with other members of the customer community.

Over the last 18 months, the Center has undergone an extensive strategic assessment process involving customers, partners, and employees. The goal was to assess Center strengths and weaknesses, continue to gain insight into customer needs and the means to improve products and services, and chart a course for the future. As a result, the Center has adopted an outcome- and theme-based approach to program planning and execution, and has completed an internal restructuring. The themes were implemented to improve our ability to achieve outcomes at the organizational level, utilizing logic models, performance measurement, strategic guidance, and cross-program collaboration. The themes, which are consistent with the mission, goals, and interests of NOAA, have been in operation for a year. The Center now is evaluating the themes to learn from our efforts by building on the successes and addressing the limitations. A brief synopsis of each theme follows:

**Coastal Watersheds / Ecosystem Approaches to Management.** The Center works to preserve the social, economic, and environmental landscape of this nation by working with organizations involved with coastal and ocean management. Watershed features considered include natural and socioeconomic resources as well as the built environment. The Center will undertake a wide array of activities to strengthen the health of coastal watersheds, including the development of geospatial data and applications, social and environmental assessments, landscape and seascape visualizations, and geospatial and process training. Primary focus areas include conservation and habitat restoration planning and alternative land use planning. A potential growth area within this theme is recreation and tourism planning.

**Hazard Resilience.** The Center's goal is for coastal communities to increase their resilience to coastal hazards. Rather than focusing exclusively on hazard vulnerabilities, the concept of coastal hazard resiliency emphasizes an integrative community-based approach to minimize hazards exposure, reduce hazards impacts, and strengthen local resilience capacities. Resilient communities are reasonably capable of bouncing back after natural disasters. They prepare well for such events and are capable of mitigating vulnerabilities, including those to ecosystems, the built environment, and citizens. Key characteristics of resilience include:

- Relevant hazards are recognized and understood by decision makers.
- Communities at risk know when a hazard event is imminent and how best to prepare and respond.
- Individuals at risk are reasonably safe from hazards in their homes and places of work, and the majority of community infrastructure remains operable post-event.
- Communities experience minimum disruption to their social fabric and economy post-event.

The Center's activities related to hazard resilience are focused on providing users with access to improved data and information through audience-focused tools and products, and providing users with opportunities to acquire skills and capabilities needed to interpret, evaluate, and manage hazard resilience information.

**Integrated Ocean Observing Systems (IOOS).** In this theme, the Center seeks to work with multiple partners, including other NOAA offices, managers, academic institutions, the private sector, and nongovernmental organizations, to enhance the availability, utility, and integration of coastal and ocean observations to the coastal management community. Projects that address data management issues will promote standards and support best practices workshops to improve the ability of IOOS partners and stakeholders to access and share observational data in a routine manner. Other projects will support communication and coordination within and between Regional Associations (RAs), the Ocean.US office, and NOAA's leadership for interagency planning and execution of IOOS.

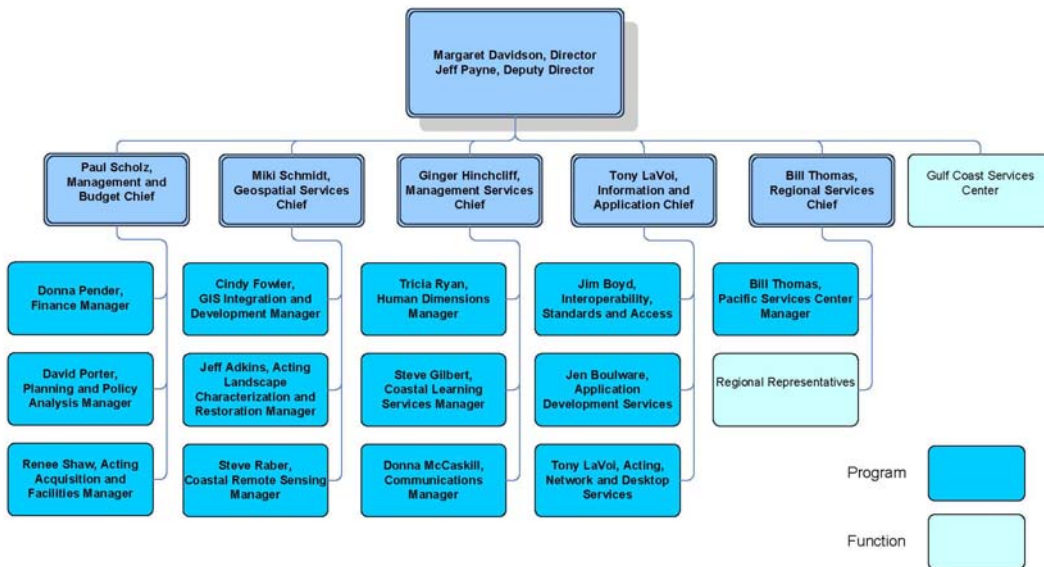
**Learning Organization.** This theme represents the efforts of Center employees to build an organization that serves customers and employees to the best extent possible. The Center must provide an innovative workplace and maintain an expert staff to ensure its overall success in providing its clients with timely, effective, and creative support that responds to continuously changing pressures and impacts on the nation's coastal resources. Strategies include investing employees in the Center's mission, encouraging the establishment of integrated, cross-functional teams, empowering employees, establishing strategic partnerships for capacity building, and encouraging new ideas for improvement.

## Organization

The Center is experienced in setting up distributed systems for inter-office engagement. Three attributes of the Center’s business process embody a matrix organization: formal inter-Line Office agreements describing programmatic goals, permanent inter-Line Office personnel relationships and accountability, and systematic planning. As a result of the Center’s strategic assessment process, including several recommendations from an external review panel, suggestions in the staff survey, and discussions with other NOAA partners, the structure of the organization has changed to match the key functions of the Center. This new structure has several objectives: 1) refine organizational focus and execute smartly; 2) institutionalize regional deployment; 3) improve execution of the IOOS strategy; 4) institutionalize a focus on data management and systems design; 5) refine the commitment to planning, execution, and results; and 6) reduce layers of management and improve the span of control.

### NOAA Coastal Services Center

Current as of December 2006



**Director’s Office.** The Director’s Office (DO) is responsible for general management, administration, strategic and operational planning, partnership building, program evaluation, and budget oversight for the Center. The DO ensures that the Center pursues activities that

are consistent with its stated mission, integrates its efforts with partners, and is responsive to customers and NOAA.

**Regional Coastal Services.** The Regional Coastal Services (RCS) branch works through a nationwide network to create an informed and inspired coastal community that has a comprehensive understanding of coastal and ocean resource management issues, uses best thinking and practices, and makes the best social and economic decisions through the sharing of resources. RCS helps provide convenient and timely access to accurate and reliable information, as well as technology and training, and helps connect the Center and other NOAA programs to our partners and users in each region. The Center has deployed individuals and capacities in five regions presently: the Pacific Islands, the Gulf of Mexico, the Northeast, the Mid-Atlantic, and the West Coast.

**Coastal Management Services.** The Coastal Management Services (CMS) branch links the coastal resource management community with information, products, and services that contribute to the integration of the social, ecological, and institutional components of the ecosystem approach to management. Expertise includes communication and outreach, meeting planning, education and training, and applied social science. CMS builds the capabilities of the coastal managers to understand and successfully engage their community, use adaptive management strategies, and develop partnerships by providing fellowships, technical assistance, and training. CMS facilitates sharing new ideas and lessons learned by bringing the coastal management community together through meetings, conferences, and trade publications. These efforts result in coastal managers being able to apply best practices that integrate social, economic, and environmental aspects of coastal management.

**Coastal Geospatial Services.** Coastal Geospatial Services (CGS) houses the Center's data development and mapping, data integration and analysis, and geospatial product development capabilities. Scientific and technical capabilities include remote sensing, coastal change analysis, geographic information system (GIS) analysis, environmental characterization, benthic mapping, habitat restoration, watershed modeling, coastal conservation, GIS-based risk and vulnerability assessments of coastal hazards, storm surge mapping, geospatial training, and decision-support tool development. CGS develops and provides access to broad-based information and technology tools for coastal resource and emergency managers.

**Coastal Information and Application Services.** The Coastal Information and Application Services (CIAS) branch coordinates the Center's efforts in the areas of geospatial data standards, software and Web development, and information technology (IT) services. CIAS leads the Center's contributions to IOOS Data Management and Communications (DMAC), and international and federal geospatial standards and interoperability coordination. CIAS develops software applications and Web services, and coordinates Web development for the Center and its customers. This branch also plans for, procures, and provides support for network and desktop IT needs of all Center employees.

**Management and Budget Services.** Management and Budget (M&B) is responsible for the day-to-day business operations and planning, policy, and coordination functions of the Center. M&B ensures that the Center executes its mission in accordance with the appropriate



federal procedures, and provides support services in acquisitions, property management, human resources, facilities management, and other administrative and financial services. M&B conducts support activities that include annual and long-range planning, legislative and policy analysis, overall coordination of the Center's performance measurement system, and coordination of rapid response drills and activities.

## Fiscal Year 2007 Program Highlights

### Coastal Watersheds

The Center helps coastal communities apply the ecosystem-based management approaches through two focus areas—conservation and habitat restoration planning, and alternative land use planning—and one growth area, recreation and tourism planning. Over the next year, the Center's activities will involve developing geospatial data and applications, conducting social and environmental assessments, developing landscape and seascape visualizations, and developing and delivering geospatial, management, and process training. The following FY 2007 projects provide examples of the approach and dedicated effort to initial watershed outcomes:

#### Outcome 1: Have knowledge of decision-making processes, policies, and laws that influence current and future landscape and seascape conditions and use patterns

- *Digital Coast: Legislative Atlas*—The Center is developing a Web-based legislative mapping and search capability to provide coastal resource managers easy access to coastal legislative data and information. The Center is currently completing the Legislative Atlas for the Gulf of Mexico, and in FY 2007 the Atlas will be developed for 3 new regions: Hawaii, California, and the Gulf of Maine. Through the Atlas, organizations implementing an ecosystem approach to management will have the data and information needed to effectively manage the resources of the region.
- *Coastal Community Planning and Development Training*—In FY 2007, this course will become part of the Center's training offerings. The goal of this course is to educate state and local coastal resource managers regarding alternatives for coastal development patterns that will help mitigate the effects of development on the environmental, economic, and social capital of coastal communities.

#### Outcome 2: Have knowledge and access to biophysical data, tools, and information on the past and current landscape and seascape conditions and use patterns

- *GIS for Coastal Conservation: Green Infrastructure Curriculum Development*—This course will be developed and piloted in FY 2007 and will become part of the Center's training offerings in FY 2008. Developed in partnership with The Conservation Fund, it will focus on the fundamentals of green infrastructure and the GIS tools, data, and methods that can be used to develop a coastal green infrastructure network.
- *Elwha Watershed Information Resource*—Developed under a cooperative agreement between the University of Idaho and the Center, in cooperation with the Lower Elwha Klallam Tribe (LEKT), this project integrates ecological and socioeconomic information that describes the physical environment, biological and human communities, and management issues in the watershed.
- *C-CAP High Resolution*—The Coastal Change Analysis Program (C-CAP) high resolution project establishes a standardized framework for the production of land cover products at a spatial scale more appropriate for use in supporting increasingly detailed, site-specific, management decisions. Work will focus on production of impervious surface and land cover products for the island of Oahu, Hawaii, and continued work with the National Estuarine Research Reserve System (NERRS) in order to demonstrate how

C-CAP high resolution products could be utilized as an input to their site specific mapping needs.

Outcome 3: Have knowledge and access to socioeconomic data, tools, and information on the past and current landscape and seascape conditions and use patterns

- *National Estuarine Research Reserve Social Science Fellowships*—In partnership with the Estuarine Reserve Division of NOAA, the Center will support the placement of Social Science Fellows in four NERRS sites. Requests for proposals will emphasize social science projects that focus on Center thematic outcomes. Project outputs will be directly related to NERRS management and scientific objectives.
- *Human Dimensions Interagency Web Site*— The Center is working with staff from over 20 federal agencies, 15 universities, and many NGOs who have programs focusing on the human dimensions of natural resource management to develop HumanDimensions.gov, an interagency web portal focused on the application of social science to natural resource management. The web portal will include case studies, agency specific information, tools, methodology, policy and legislation, publications, and a forum.

Outcome 4: Have knowledge and access to ecosystem-based management strategies

- *Coastal Ecosystem-Based Management Training*—In FY 2007, this course will be developed and piloted. It will become part of the Center’s training offerings in FY 2008. The intent of the course is to convey key ecosystem-based management concepts and practices in order to provide a common understanding for decision-makers and stakeholders as well as provide application examples and tools.
- *San Francisco Bay Subtidal Habitat Goals Project*—This collaborative project will develop restoration and management goals for the Bay's subtidal habitats and is part of a broader effort to create an ecosystem-based management vision for San Francisco Bay and its watershed by linking the San Francisco Wetlands, Subtidal Habitat and Uplands Goals efforts.

## **Coastal Hazard Resilience**

Resilience is about building the capacity to absorb shocks and bounce back. Rather than focusing exclusively on hazard vulnerabilities, the concept of hazard resilience emphasizes an integrative community-based approach to minimize hazards exposure, reduce hazards impacts and strengthen local resilience capacities. The Center has a range of activities planned to contribute toward two primary categories of hazard resilience outcomes:

Outcome 1: Coastal hazards information and visualization, supports resilience through improved information, forecasting and visualizations to reduce hazards exposure and impacts

- *Storm Surge Product Development and Extension*—The Center will develop decision-support tools for storm surge inundation and flooding. Inundation modelers, emergency managers, and coastal planners will have the skills, knowledge, and capabilities to apply hazards data and information toward community resilience through projects including storm surge visualizations, a storm surge educational primer, various extension activities, and enhancements to storm surge forecast products and services.
- *Shoreline Products for Practitioners*—This project extends ongoing efforts in inundation mapping, coastal and ocean observation visualization, and shoreline management to

additional geographic areas and resilience partners. Through this project, community partners will have key tools and information resources for building adaptive capacity and enhancing resilience.

- *Topographic Change Mapping*—This project provides high-resolution topographic and bathymetric data sets (including seamless topo/bathy data for select locations), derived information products, and analysis tools to community partners for use in coastal zone decision-making processes. Applications of the data include storm surge and storm inundation analysis, erosion analysis, and water flow applications. Light Detection and Ranging (LIDAR) data are acquired to meet Federal Emergency Management Agency (FEMA) specifications for floodplain mapping and are used to increase public safety as the basis for more accurate digital floodplain insurance rate maps (DFIRMS).

Outcome 2: Community resilience, supports resilience through community-based resilience assessment, planning, integration tools and technology transfer

- *Resilience Community of Practice*—This project will facilitate the development of a resilience-focused community of practice for our coastal constituents to develop knowledge and foster learning through the process of creating, expanding, and exchanging knowledge, and developing individual capacities.
- *Gulf Coast Community Assessment & Resilience Planning Pilot*—This project will facilitate the development of community-level resilience assessment and planning processes, methods and tools in pilot demonstration(s) in the northern Gulf of Mexico. The Center is pursuing a two-year cooperative agreement under which the cooperator(s) and the Center will jointly develop and demonstrate a regional framework for community-based assessment and resilience planning to increase the capacity of coastal communities to survive, mitigate the effects of, and recover from the effects of hazards.
- *Coastal Storms Program*—NOAA's Coastal Storms Program (CSP) is working to improve resilience by leveraging resources of NOAA and coastal communities to reduce the adverse impacts of coastal storms by developing improved and integrated resilience products and services for local decision-makers. By filling gaps in storm preparation, response, and recovery, CSP helps to reduce the impacts storms have on a region's environment, economy, and population.
- *Resilience Training and Technology Transfer*—This project will facilitate the development and delivery of resilience-oriented training and technology transfer to Center partners and constituents. Initially, the project will focus on assessing user training needs, delivering existing process or technical training to help facilitate partnership development, and modifying or updating existing training to incorporate resilience concepts and methods. As other resilience activities unfold during FY 2007, requirements for new training will be identified and pursued.

### **Integrated Ocean Observing System (IOOS)**

Many organizations, including other NOAA offices, are working to make IOOS a reality. The Center's focus is to incorporate the ideas and needs of the coastal resource management community into IOOS, including the development and delivery of pertinent data streams and the corresponding decision-support tools. The Center's support for the regional component of the IOOS, including regional coastal ocean observing systems and the RAs, is the most effective approach to reaching the coastal management community because the RAs are

responsible for understanding and addressing the needs of the state and local stakeholders. Part and parcel to the integration of regional components with the national contribution is the development of data management standards and protocols to document and transport data between entities and the development of decision support tools that demonstrate the benefit of an integrated system at national and local levels. The following projects illustrate the Center's approach to achieve one or more of the FY 2007 priority outcomes for the IOOS theme:

Outcome 1: To build the capacity of the RAs as the primary points of contact in the IOOS community for regional stakeholders

- *IOOS Communication and Coordination and Regional Coordination and Outreach*—This effort will enhance communication among the RAs, between the Center and the RAs, and between the RAs and the IOOS community.

Outcome 2: To facilitate data management processes such that regional data providers contribute to an integrated system

- *Community Information Repository*—The repository website shares data management information and lessons learned by regions. This site is designed to help operators of the local ocean observatories and data providers to find and share best practices on data management.
- *Data Transport Lab*—This project will establish a dedicated testing infrastructure and provide support to the regions to test and develop data transport protocols.

Outcome 3: To illustrate the benefit of IOOS to the coastal management community and encourage their involvement

- *IOOS Applications*—This effort will emphasize the integration of ocean observation data with coastal management tools (including Center-supported Harmful Algal Bloom [HAB] forecasting and inundation applications), and focus on furthering their interoperability.
- *IOOS Success Stories*—This lessons learned activity will emphasize and communicate the value of ocean observation data by leveraging the information developed through several Center projects, including the National Ocean Economics Program, grants, and contracts.

## **Learning Organization**

The Center has begun formal steps to becoming a learning organization, and apply learning organization concepts to culture, business processes, and behavior. Current efforts to move the Center forward in its growth as a learning organization are driven by recognition that we are constantly challenged by change, both as a federal agency and as a society. Mastering the learning organization disciplines, primarily as articulated by Peter Senge (Personal Mastery, Team Learning, Mental Models, Shared Vision, and Systems Thinking), will be helpful for ensuring that the Center has the knowledge and capacity to continue to serve coastal communities effectively.

In FY 2006, the Center held a training workshop on Learning Organization theory and application. This workshop included peer-to-peer learning elements and application of learning organization disciplines to Center issues. As a result of the workshop, a near-term

need was identified to engage more of the Center and clarify the vision for the learning organization effort. Two activities to address the needs anticipated for FY 2007 are:

- *Brown-Bag Series*—The peer-to-peer materials developed for the workshop will be presented to the Center as a whole in a series of brown-bags. These will include opportunities for interested staff to join others in continuing their learning and application of the disciplines.
- *Vision Deployment*—As the theme effort expands its focus on the Senge disciplines, a new collective visioning process is needed for the theme. The vision deployment matrix is a structure that supports articulation of a desired future, and the identification of present conditions and the changes needed to arrive at the preferred end state.

Learning organization principles are more often manifest as elements of the Center's project work than as discrete projects. Two FY 2007 efforts exemplify elements of learning organization principles in action, and opportunities to build the Center's capacity in this body of thought:

- *Community Resilience Team Learning Pilot*—This effort to better understand the issue of community resilience will draw on the disciplines of personal mastery and team learning. The skill of dialog will be an important tool in this effort. The focus will be on improving our understanding of this issue as well as our capacity for generative learning.
- *Human Dimensions (HD) Program*—The Center's Human Dimensions Program will continue to apply personal mastery and other learning organization techniques to its project teams and assist efforts across the Center to leverage the advantages of a learning organization.

## Program Collaboration with NOAA Line Offices

Partnership is one of the operating principles at the Center. Partnerships within NOAA are an important component, as the Center strives to be an integral part of the team working to make NOAA goals a reality, and to bring multiple NOAA talents to the table to focus on the needs of a mutually-defined constituency. To ensure meaningful cross-organizational planning, execution, and personnel management, this AOP is developed in association with the NOAA Line Offices, and signed by the NOAA Assistant Administrators. Following are some representative activities in which the Center is partnering with the six NOAA Line Offices.

### *National Marine Fisheries Service (NOAA Fisheries)*

During FY 2007, the Center and NOAA Fisheries will jointly manage three federal full-time equivalents (FTEs). These FTEs represent the Office of Sustainable Fisheries, the Office of Science and Technology (OST), and the Office of Habitat Conservation (OHC). The shared positions include one located at the Gulf Coast Services Center in Stennis, MS, and two in Charleston, SC. The joint FTE with OHC is currently vacant. OHC and the Center will be recruiting to backfill this position in FY 2007 based on inter-office planning sessions already concluded. An additional Center FTE is cooperatively managed with NOAA Fisheries at the NOAA Chesapeake Bay Office (NCBO), and is currently encumbered by the temporary promotion of the NCBO Deputy Director to OHC to serve as the NCBO Acting Director.

In addition to the federal FTEs, NOAA Fisheries and the Center jointly manage one full-time contract position at the Center funded by OHC. Furthermore, approximately 3.5 FTE of Center personnel (federal and contract) will collaborate with NOAA Fisheries during FY 2007 on specific initiatives and projects involving habitat restoration, mapping, and classification.

Habitat restoration has traditionally been an area of shared interest between the Center and NOAA Fisheries. Integrating the Center's expertise in restoration planning with NOAA Fisheries' expertise in restoration implementation and research, NOAA is able to promote best management practices for habitat restoration. Since FY 2001, the Center has co-funded 18 Community-based Restoration Program (CRP) projects with OHC, resulting in approximately 900 acres of coastal habitat restored. In FY 2006, the Center and OHC developed a decision support tool for CRP grant recipients to create science-based monitoring plans that will allow NOAA Fisheries to better incorporate CRP restoration results into NOAA's Government Performance and Results Act (GPRA) and other performance measures. In FY 2007, the Center and OHC plan to expand their collaboration beyond CRP to other programs to more strategically leverage partners, resources, and performance reporting, and to incorporate and promote ecosystem approaches to management in all habitat-related activities. For example, the Center will work with OHC on their Chesapeake Bay Living Shorelines Initiative to develop a long-term strategy for sustainable shoreline protection and restoration that incorporates ecosystem considerations. The Center will also share information and expertise in geospatial decision support tools for ecosystem-based management to promote more informed application of such tools in fishery and habitat management.

The Center will continue to build its relationship with the Northwest Fisheries Science Center in FY 2007 by working with them to disseminate information and data from two previous years of research co-funded by NOAA CSP, managed by the Center. The results of the research will further coastal resource managers' understanding of land use impacts on salmon spawning, specifically road-related pollution impacts from storm events.

Benthic habitat mapping and classification has been a focus area of collaboration between the Center and NOAA Fisheries for many years. The Center, NOAA Fisheries, OST, and NatureServe have developed an ecosystem-oriented, science-based framework for the identification, inventory, and description of coastal and marine habitats and biodiversity, called the Coastal and Marine Ecological Classification Standard (CMECS). In FY 2007, the Center, OHC, and OST will continue to test and evaluate CMECS as a national system of habitat classification by applying it to ongoing mapping efforts and determining its usefulness as an analytical tool for monitoring ecosystem changes.

The Center and NOAA Fisheries also serve, through these collaborations, as the co-chair of the Gulf of Mexico Alliance Federal Work Group habitat theme subcommittee, and provide technical assistance to our partners, including the Grand Bay NERRS, in the development of regional landscape restoration and conservation strategies.

The Center continues to fund and manage, through the shared OST FTE, NOAA's C-CAP, a program dedicated to the development, distribution, and application of land cover and change data for the nation's coasts. NOAA Fisheries helped establish this program. C-CAP data for multiple coastal regions are now available for use by scientists and managers, and additional data development is planned for FY 2007. It is envisioned that C-CAP land cover data will function as a base layer for integrated regional examinations of the linkages between coastal wetland habitats, adjacent uplands, and living marine resources. The Center also would like to build upon NOAA Fisheries' long-standing interest in C-CAP to develop a vision for next-generation NOAA-led land cover products that make use of new sensors with finer spatial resolution.

### ***National Environmental Satellite, Data, and Information Service***

The Center collaborates with the National Environmental Satellite, Data, and Information Service (NESDIS) on multiple levels, assisted by four joint FTEs with 2<sup>nd</sup> level supervision by NESDIS – two from the NESDIS Satellite Oceanography and Climate Division (SOCD) and two from the NESDIS National Oceanographic Data Center (NODC). These personnel are located in four separate program areas at the Center, with one employee responsible for managing the Center's Coastal Remote Sensing Program.

Collaborative activities generally include remote sensing, data standards and transport, management and archiving, and inter-office coordination. The Center collaborates with SOCD and its Coastwatch program on the use of remote sensing and ocean color products in coastal decision-support systems and resource management applications. The Center also continues to work with the National Climatic Data Center (NCDC) on the Climate and Weather Impacts on Society and the Environment (CWISE) cooperative agreement with North Carolina State to develop climate products and information. A second CWISE



cooperative agreement is under consideration during FY 2007 with tri-funding from the Center, NCDC, and OAR's Sectoral Applications Research Program (SARP). Other continuing NCDC involvement with the Center concerns work with the Climate Database Modernization Program (CDMP) to rescue valuable historic topographic shoreline data. The Center also collaborates with NESDIS on IOOS data management, NOAA data management, and geospatial data access activities. FY 2007 joint activities of note include:

IOOS –

- Co-chair the DMAC Metadata Expert team with National Coastal Data Development Center (NCDDC).
- Coordinate IOOS data and metadata activities with NODC.
- Support IOOS DMAC activities at Ocean.US.
- Coordinate activities with the NOAA Integrated Observations Team and NOAA Data Management and Integration Team.

Remote Sensing –

- Coordinate and collaborate with SOCD on NCBO satellite remote sensing activities. One of the joint Center/SOCD FTE slots has just been filled and the employee placed at the NCBO.
- Continue collaboration with SOCD in the use of Coastwatch products for the NOS operational HAB bulletin system.
- Continue coordination with SOCD on the implementation of a primary productivity Coastwatch product.
- Coordinate the use of classified data assets through the Civil Applications Committee (CAC).

Data Rescue, Management, and Archiving –

- Partner with NCDC to continue shoreline data rescue and database development.
- Develop an archive submission agreement with NGDC for LIDAR data.
- Ensure two copies of all Center print and hard electronic products are archived at the NOAA Central Library in accordance with National Audit Office (NAO) 205-17.
- Work with the NOAA Central Library to complete the integration of the Coastal Zone Information Collection (CZIC) into the holdings of the NOAA Central Library.
- Coordinate with NCDC on the E-Gov Geospatial One-Stop Project, specifically the "Atmosphere and Climate Community."

***Office of Oceanic and Atmospheric Research (NOAA Research)***

The Center and the Office of Oceanic and Atmospheric Research (OAR), specifically the National Sea Grant College Program, will continue and expand their previous years' interactions through two joint federal FTEs. The first position collaborates with the extension programs in the 30 Sea Grant programs across the country and develops training programs that are based on needs assessments conducted with the Sea Grant extension community. Courses developed in the past include "Project Design and Evaluation," "Public Issues and Conflict Management," "Negotiating for Coastal Resources," "Web Content Design and Evaluation," and "Survival Skills for Coastal Resource Managers." Sea Grant programs host

the workshops and also attend Center courses hosted by other coastal resource managers. Additional courses under development for design and delivery through the Sea Grant network include “Coastal Climatology” and “Coastal Community Planning and Development.”

The second joint position provides team leadership for the Center’s HD Program. This shared position works with Sea Grant on a number of programmatic activities, including the NOAA Coastal Management Fellowship program and smart coastal growth. State Sea Grant directors review and nominate applicants for the fellowship program each year, and the national office serves as a reviewer for fellowship state selection and fellowship candidate finalists. As a part of the NOAA/U.S. Environmental Protection Agency Smart Growth Partnership, the Center is working with Sea Grant and the other federal partners to develop a training course for state coastal resource managers on coastal community planning and development. The position also served on a review panel for Smart Growth Implementation Assistance grants, selecting three programs to receive financial and technical assistance to implement smart growth principles in their communities. This position provides HD Program staff support upon request for Sea Grant programs application of social science methods such as survey design and needs assessments.

The Center will also continue its strong partnerships with the national and state Sea Grant offices on the Nonpoint Education for Municipal Officials (NEMO) project. This project connects to Sea Grant theme team areas such as fisheries, coastal communities and economies, coastal natural hazards, and ecosystems and habitats. Sea Grant and the Center will continue to partner to conduct regional pilots for the CSP in the Southeast, Pacific Northwest, Southern California and the Gulf of Mexico. Each region has a local outreach and extension lead, typically provided through Sea Grant, to ensure that the improved information and tools gained from the CSP are available to CSP partners and users.

The Center is working with partners in national and state Sea Grant offices and the Climate Program Office on community resilience planning, including local and national resilience indicator development, local decision-support tool development, and related training and technology transfer. A workshop to increase Sea Grant extension agents’ understanding of climate variability and change and opportunities for collaboration will be held in FY 2007. The Center also has helped to review the Regional Integrated Science Assessment (RISA)/Sea Grant climate extension competition. If awarded, the Center will partner with OAR’s SARP program on the next CWISE grant to leverage NOAA and partner capabilities to enhance coastal community resilience to weather- and climate-related hazards such as sea level rise, and will serve on the annual SARP proposal review and selection panel.

Lastly, the Center jointly funds an OAR billet located at NCBO, focused on supporting IOOS in the Chesapeake Bay and Mid-Atlantic region. This position manages the NCBO Integrated Coastal Observations Program, which supports the Executive Director of the Chesapeake Bay Observing System; represents NOAA interests in the Mid-Atlantic Regional Association; and works with NOAA Coastwatch and the Center to develop new coastal remote sensing products. Through this position, OAR and NCBO are collaborating with the Center on the Chesapeake Bay Oyster Larvae Tracking project, and the Chesapeake Bay Interpretive Buoy System, a contribution to IOOS through the NOAA Office of Education.

### ***National Weather Service***

Together, the National Weather Service (NWS) and the Center have extended and improved NOAA's product and service delivery to coastal communities. Collaborative activities are focused on the assessment and mitigation of coastal hazards and improved conveyance of risk to enhance community resilience. The Center has both a joint federal FTE that manages coastal hazards projects, connected with the Office of Climate, Water, and Weather Services, and a contract position at Tropical Prediction Center/National Hurricane Center (TPC/NHC) to assist in integrating geospatial technology into products and services. Initiatives such as the CSP, Advanced Hydrologic Prediction Service (AHPS), NOAA storm surge action plan, and more recently, the introduction of an enterprise GIS approach into the NWS Operational Service Improvement Process, have served as key points of collaboration between these groups. The Center also has an FTE housed at the Southeast River Forecast Center which is promoting coordination of Center and NWS activities related to coastal and inland flooding from tropical events. Ongoing and planned collaborative efforts fall into three major categories:

- 1) *New services and products demonstrated or planned through the CSP –*
  - Pursue expansion of the Oregon Coastal Inundation Visualization Tool to other regions and showcase as an application to the IOOS Regional Association community on use of real-time observations for graphical display of coastal inundation. This decision support tool was developed in FY 2005 and finalized in FY 2006 to improve forecasting and observation capabilities, and to assist in preparation for and awareness of coastal storms. The tool uses real-time wave and tide data to project potential wind-wave inundation on sandy shore coastal segments of Oregon, and includes tsunami inundation layers.
  - Deliver an on-line digital forecast planning and decision support tool to the Office of Emergency Services in Southern California that will enable multiple weather hazard elements from the National Digital Forecast Database to be displayed on pertinent GIS planning layers. The tool will be completed in early FY 2007, and outreach and training for emergency and coastal managers will occur in late FY 2007 and early FY 2008. A catalog of current CSP data and observations, models, tools, and outreach and education opportunities developed by the Center will be enhanced with additional CSP products and services to assist the program as it expands to the Gulf of Mexico in late FY 2007 and early FY 2008.
- 2) *Graphical flood severity inundation mapping and Hurricane Evacuation Decision Support Tool (HURREVAC) enhancements –*
  - The Center will assist the NWS to improve graphical display of flood forecasts in the Gulf Coast Region by developing flood severity inundation layers and maps at 35 NWS river forecast point locations, as well as in developing a topographic/engineering data inventory at 524 NWS river forecast point locations. This is a collaborative effort between the Center and NWS to deliver congressionally mandated products from the 2<sup>nd</sup> Hurricane Katrina supplemental legislation. The Center and NWS will continue to work with the NWS Advanced Hydrologic

Prediction Service (AHPS) program and FEMA to develop a national strategy for graphical flood impact map implementation. The Center will also participate on the AHPS real-time inundation mapping evaluation team, whose vision is the provision of real-time inundation maps to enhance community resilience by enabling decision makers to make informed decisions to better mitigate the impact of floods.

- The Center will work to develop a HURREVAC storm surge module to display forecast storm surge on NOAA predicted astronomical tide information, and update current HURREVAC training and outreach materials, including potentially hosting and facilitating the "Next Generation HURREVAC" meeting, in coordination with the NWS and FEMA.

3) *NOAA storm surge action plan and GIS technical assistance –*

- With NWS, the Center will continue to address recommendations from the NOAA Storm Surge Action Plan. Work in FY 2007 will focus on: 1) delivering an automated tool for mapping NWS Sea, Lake, and Overland Surge from Hurricanes (SLOSH) model output in GIS formats; 2) showcasing example Web mapping applications for delivering storm surge maps and hurricane evacuation information; 3) developing decision support tools and visualizations of storm surge models and facilitating inundation community modeling activities; and 4) developing a storm surge primer for outreach and education. Center contract staff at the TPC/NHC will continue to assist with operational storm surge runs, SLOSH model enhancements and basin updates, and work to incorporate GIS technology in production of NHC products and services, including the conversion of selected NHC hurricane forecast products to geospatial formats.
- The Center will provide general geospatial and technical support to the NWS regions and headquarters on GIS data delivery mechanisms, including NWS digital services support to efficiently deliver National Digital Forecast Database data in GIS formats. The Center will also participate on the NWS Operations and Services Improvement Process GIS Integrative Working Team to realize the NWS objective to develop an enterprise GIS. This will include assisting NWS with developing a GIS Concept of Operations.

***National Ocean Service (NOAA Oceans and Coasts)***

The Center has several joint personnel relationships with other NOS offices aimed at both improving the integration of NOS products and services for coastal managers, as well as supporting the internal needs of NOS offices. The Center supervises a billet in the Pacific region, supported by NOS, NESDIS, and NWS, focused on regional collaboration, and also jointly funds—with the Office of Ocean and Coastal Resource Management (OCRM)—a billet in the northeast with a similar function. In the Charleston area, the Center fully funds two billets that provide administrative and financial support to the National Centers for Coastal Ocean Science (NCCOS) at Fort Johnson.

The Center, in partnership with the National Geodetic Survey (NGS) and Office of Coast Survey (OCS), will develop a shoreline portal for NOAA. The result of this activity will be a

one-stop source for data and information related to all NOAA shoreline efforts. The Center will also collaborate with NOAA Fisheries' CRP and the Cooperative Habitat Protection Program (CHPP), potentially partnering with NCCOS, the Center for Operational Oceanographic Products and Services (CO-OPS), and NGS for the Chesapeake Bay Living Shoreline project.

The Center will develop decision-support tools in FY 2007 that will enhance the resiliency of coastal communities to storm surge inundation and flooding as part of the NOS Storm Surge Partnership Project. The Center is partnering with OCRM and the NOAA CSP to make information about shoreline change available to coastal managers and decision-makers by incorporating NOAA National Data Buoy Center (NDBC) wave data and CO-OPS tidal data to enhance community resilience. Partnering with NOS' NERRS, Coastal Zone Management (CZM) programs, and National Marine Sanctuaries (NMS), the Center will deliver a Project Design and Evaluation (PDE) workshop that provides coastal resource management extension and education professionals with the knowledge, skills, and tools to design and implement projects that have measurable impacts on the audience they want to reach. The Center also provides ongoing HD, communications, and technical support to OCRM for multiple national initiatives and programs such as the Coastal and Estuarine Land Conservation Program (CELCP), the Coastal Zone Management Act (CZMA) Performance Measurement System, and the Coastal Indicators Information Exchange Web site.

The Center places Coral Reef Management Fellows in conjunction with OCRM and NOS' Office of Response and Restoration (OR&R), NERR Social Science Fellows in conjunction with OCRM's Estuarine Reserves Division (ERD), and Coastal Management Fellows in partnership with OCRM.

The NOAA Pacific Services Center (PSC) will partner with OCS to ensure that the nautical charts and U.S. Coast Pilots within the Pacific Islands are current and accurate to support maritime commerce and Coastal Zone Management decision-making. PSC, with OR&R, will support organization of Natural Resource Damage Assessment (NRDA) workshops with an overall result of more successful and cost-effective restoration of damaged natural resources. PSC will continue to provide local geospatial technical assistance to several NOAA offices including NOS. PSC will also provide regional geodetic advisor support for National Spatial Reference System (NSRS) projects, workshops, and travel to contribute to NOAA IOOS efforts including partnerships with CO-OPS and NOS.

PSC is working on the small-scale fisheries assessment for Hawaii, a project to generate "internal customer service" information on products and services, including those of NOS, as well as community resilience data. In partnership with NGS, PSC will incorporate geospatial technology outreach strategies into the Bay-Watershed Education and Training (B-WET) Hawaii program. Working through the Pacific Risk Management `Ohana (PRiMO) with a Navigators Council including NOS and other NOAA Line Office representation, PSC will lead efforts to assess the applicability of the Indian Ocean Coastal Community Resiliency Program and the Community Resiliency Index to the U.S. Pacific Islands.

Other regional work includes tying the Center's hazard resiliency work to that of OCRM to build a more strategic partnership between the offices and gain a common understanding of hazard resiliency in a regional context. Additionally, regional needs assessments in the Gulf of Mexico, Northeast, California, and Pacific will be aligned with the four strategic themes outlined in the NOS AA's Transition Report, engaging other NOAA and NOS offices. Finally, the San Francisco Bay Subtidal Habitat Goals project includes NOS offices to develop restoration and management goals for the Bay's subtidal habitats.

### ***Program Planning and Integration***

The Center works with NOAA's Office of Program Planning and Integration (PPI) primarily through involvement with matrix programs in the Program Planning, Budgeting, and Execution System (PPBES). The Center's activities are captured within two programs in two of NOAA's four mission goals—the Coastal and Marine Resources Program (CMRP) in the EGT and the Coasts, Estuaries and Oceans (CEO) program in the Weather and Water (W&W) Goal Team.

The Center leads the CEO program in working with the NOAA W&W Goal Team to reduce the loss of life, injury, and damage to the economy from hazardous and severe weather events, and to produce better, quicker, and more valuable weather and water information to support improved decisions.

The Center participates in and supports the CMRP, working with the NOAA EGT to build healthy and productive coastal and marine ecosystems that benefit society and to inform the public so they can serve as stewards of the ecosystems. The Center also supports the Ecosystem Goal by collaborating with the Habitat Matrix Program.

The Center supports NOAA's Climate Goal through the development of coastal climatology information resources and joint funding of the CWISE cooperative agreement with NESDIS.

During FY 2007, the Center will work with PPI and other line offices to foster NOAA's new approach to executing cross-cutting programmatic priorities in regions, and the integration and delivery of NOAA products and services on a regional basis. Center employees will lead two of the eight NOAA regions (the South Atlantic and the Pacific), contribute strongly to three other regions through the efforts of four senior staff, and lead the Hazards Resilient Coastal Communities priority area for all of NOAA.

## Fiscal Year 2007 Budget and Resource Information

The annual allocation of Center resources to projects and activities is determined by customer and partner needs, strategic objectives of the Center, NOAA, and the administration, and with guidance from the U.S. Congress. Most of the Center's budget is apportioned as part of the NOAA NOS budget in the NOAA operations, research, and facilities appropriation. The Center acquires reimbursable funding from a variety of sources to conduct work. The Center's base budget for FY 2007 at the President's Budget Request is \$19,458,000 million in direct funding. Changing priorities or unexpected events during the year may alter spending and project plans.

*Data represents that of President's Budget Request*

NOAA Coastal Services Center FY 2007 Base Budget (by service area) in \$000K							
Management and Budget Services	Coastal Management Services	Coastal Information and Application Services	Coastal Geospatial Services	Director's Office	Regional Coastal Services	Labor *	Total Base
1,396.3	1,677.0	877.2	903.8	611.4	386.4	13,605.9	19,458.0
* Includes Federal, Transferred, and Contract Labor							

*The following table represents other resources estimated as extracted from the Senate Mark*

NOAA Coastal Services Center FY 2007 Other Direct Budget Resources (by program) in \$000K						
Pacific Services Center	Coastal Storms Program	Integrated Ocean Observing	Gulf Coast Services Center	MS/LA Digital Coast		Total Other Direct
4,500.0	2,874.0	19,400.0	3,000.0	1,000.0		30,774.0

Federal Employees		By NOAA Line Office	
Full Time	77	CORPS	1
Part Time	6	FED Other	3
<b>Total</b>	<b>83</b>	NESDIS	4
		NMFS	2
		NOS	69
		NWS	2
		OAR	2
		<b>Total</b>	<b>83</b>

**CSC staff report**

Affiliations		Locations	
Contract (Other)	6	Charleston, SC	153
Federal	83	Honolulu, HI	17
FSSI (Field Support Services)	3	Silver Spring, MD	5
IMSG (IM Systems Group)	55	Norfolk, VA	1
IPA (Interpersonnel Agreements)	6	Arlington, VA	5
ORISE	1	San Francisco, CA	2
PSGS (Perot Systems Government Services)	40	Durham, NH	1
		Scituate, MA	1
<b>Total</b>	<b>194</b>	Fort Pierce, FL	1
		Oakland, CA	1
		Stennis Space Center, MS	1
		Annapolis, MD	2
		Miami, FL	1
		College Station, TX	1
		Peachtree City, GA	1
		Pawtucket, RI	1
		<b>Total</b>	<b>194</b>



## Planned Accomplishments

The following planned accomplishments are the result of a systematic planning process. The Center is committed to meeting its mission, which is nested within NOS and NOAA priorities. Through interacting with other offices within NOAA, the Center is able to more effectively deliver services to the coastal management community. The milestones we plan to accomplish represent significant work outputs in support of Center and NOAA goals, objectives, and performance measures.

### NOS (CMRP and CEO) Level Milestones

PPBES Program and ID #	Project Title	Milestones	Lead Program Area	Other CSC Programs Involved	NOAA Partners	Type	Fiscal Qtr
<b>NOAA Strategic Performance Objective: Increase number of regional coastal and marine ecosystems delineated with approved indicators of ecological health and socioeconomic benefits that are monitored and understood</b>							
<b>NOAA GPRA: Annual Number of Coastal, Marine, and Great Lakes Ecological Characterizations that meet management needs</b>							
<b>CMRP Performance Measure: % of regions with baseline of land cover characterized. Percent of coastal and marine areas adequately characterized for management.</b>							
CMR1	C-CAP	Provide updated (2005 and 2006) C-CAP land cover products for the Gulf Coast and Mid-Atlantic regions on the Web.	CRS			NOS	Q3
CMR 2	Benthic Habitat Mapping and Classification	Complete habitat data inventory for the Gulf of Mexico.	Non PSC Regional and LCR	CRS	NMFS; NOS	NOS	Q3

PPBES Program and ID #	Project Title	Milestones	Lead Program Area	Other CSC Programs Involved	NOAA Partners	Type	Fiscal Qtr
<b>NOAA Strategic Performance Objective: Increase portion of population that is knowledgeable of and acting as stewards for coastal and marine ecosystems.</b>							
<b>CMRP Performance Measure: Number of students reached by coastal and marine education programs that meet state and/or national science education standards.</b>							
CMR3	B-WET	The B-WET Hawaii program increases the number of students and teachers that directly experience the application of NOAA science to various educational settings, including through three dimensional models for NOAA's Science on a Sphere in Hawaii and the Magic Planet systems.	PSC		NOAA Office of Education; NMSP; NMFS	NOS	Q4
<b>NOAA Strategic Performance Objective: Increase number of coastal communities incorporating ecosystem and sustainable development principles into planning and management</b>							
<b>NOAA GPRA: Number of Tools, Technologies, and Information Services that are used by coastal resource managers to advance ecosystem approaches to management.</b>							
<b>CMRP Performance Measure: Cumulative number of tools and technologies that improve ecosystem management</b>							
CMR4	GeoTools	Successfully plan, implement, and evaluate Coastal GeoTools '07 Conference to support the understanding of spatial data, tools, and technology in the coastal management community.	CGS			NOS	Q3

PPBES Program and ID #	Project Title	Milestones	Lead Program Area	Other CSC Programs Involved	NOAA Partners	Type	Fiscal Qtr
CMR5	Geospatial Data Coordination	Release enhanced version of the Data Explorer Geospatial Data Portal, NOS' primary access point to search, view, and download geospatial data sets from every NOS Program Office.	ISA		NOS	NOS	Q4
CMR 6	Regional Needs Assessments	Complete a comprehensive needs assessment for the Gulf of Mexico that considers the Gulf Alliance Plan of Action as well as other regional efforts, and identifies state coastal resource management issues and requirements.	Non PSC Regional	LCR, CIAS, CIS Ops, HD, CMS Ops, PSC	NMFS; NWS River Forecast Center and WFOs; OCRM; National Sea Grant; NDBC; NCDDC; ORR; New Orleans Office of Marine Debris	NOS	Q2
CMR 7	GIS for Coastal Conservation: Green Infrastructure Curriculum Development	Develop a coastal conservation-themed GIS course which focuses on green infrastructure network design concepts.	GIS I&D			NOS	Q4
	Coastal Management Fellowship	Place at least 4 coastal management fellows in 4 states	CLS		State Sea Grant; State Coastal Programs	CSC	Q4
	Publications	Publish 3 issues of CSC publications	Communications			CSC	Q2
	Publications	Publish 3 issues of CSC publications	Communications			CSC	Q4

PPBES Program and ID #	Project Title	Milestones	Lead Program Area	Other CSC Programs Involved	NOAA Partners	Type	Fiscal Qtr
CMR9	Publications and Fellows	Provide coastal managers with best management practices as measured by: 1) publishing 6 issues of CSC publications; and 2) placing 4 coastal management fellows with state coastal management programs.	CLS, Communications		State Sea Grant; State Coastal Programs	NOS	Q2, Q4
		Provide technical assistance to internal CSC staff and external partners in social assesment, performance measures, logic models, needs assessments, content structure and delivery, visitor use management, facilitation, and evaluation on an as needed basis to 7 different groups representing at least 5 states	CLS and HD		SPO; OCRM / ERD	CSC	Q2
	NERR Social Science Fellows	Place 4 social science fellows at NERR sites	HD		OCRM / ERD	CSC	Q4
		Provide technical assistance to internal CSC staff and external partners in social assesment, performance measures, logic models, needs assessments, content structure and delivery, visitor use management, facilitation, and evaluation on an as needed basis to 6 different groups representing at least 5 states	CLS and HD		SPO; OCRM / ERD	CSC	Q4
	Economic Conditions Report	Develop a regional economic assessment, including maps of the coastal and lake economy for the Great Lakes region using NOEP data	HD			CSC	Q4

PPBES Program and ID #	Project Title	Milestones	Lead Program Area	Other CSC Programs Involved	NOAA Partners	Type	Fiscal Qtr
CMR10	Social Science	Support coastal managers and advance EAM through applications of social science tools including: 1.) 2 social science assessments; 2.) placement of 4 social science fellows in NERRS; and 3.) creation of an economic conditions report in the Great Lakes region.	HD, CLS		SPO; OCRM / ERD	NOS	Q4
<b>CMRP Performance Measure: Number of decision-makers trained in best management practices to improve management of coastal and marine ecosystems.</b>							
	GIS Training and Curriculum Development	Support the delivery of 6 introductory and intermediate level GIS courses to partners and constituents within the coastal U.S.	GIS I&D		NMFS	CSC	Q4
	Remote Sensing Training	Provide 3 Remote Sensing training classes to the Coastal Resource Management community	CRS			CSC	Q4
	Pacific Regional Geodetic Advisor Support	Deliver 3 trainings to a total of 18 surveyors and field resource managers in 2 state/territories.	PSC		NGS; OCS; NMSP	CSC	Q2, Q4
	Coastal Zone 07 Delivery	Deliver a successful Coastal Zone 07 conference.	CLS	CMS Ops	NMFS; NOS;OCRM;N GS;CO-OPS	CSC	Q4

PPBES Program and ID #	Project Title	Milestones	Lead Program Area	Other CSC Programs Involved	NOAA Partners	Type	Fiscal Qtr
	Process and Management Training	Deliver 8 trainings (process and management) to a total of 120 d/makers representing at least 5 states	CLS	HD	OCRM / ERD; Sea Grant	CSC	Q2
	General Conference, Workshop, and Meeting Support	Provide meeting planning and logistical support to 6 meetings and workshops to support a total of 100 d/makers representing at least 5 states	CLS	All	NOS;OAR;NWS;NESDIS	CSC	Q2
	Process and Management Training	Deliver 7 trainings (process and management) to a total of 100 d/makers representing at least 5 states	CLS	HD	OCRM / ERD; Sea Grant	CSC	Q4
	General Conference, Workshop, and Meeting Support	Provide meeting planning and logistical support to 5 meetings and workshops to support a total of 80 d/makers representing at least 5 states	CLS	All	NOS; OAR; NWS; NESDIS	CSC	Q4
CMR8	Training and Conferences	<b>Support broader understanding and networking in the coastal management community as measured by: 1) delivery of technology, process, and management training courses to Coastal Services Center clients and NOAA partners; and 2) planning, implementing, and evaluating</b>	CLS	GIS I&D, CRS, HD, PSC	NOS; OAR; NWS; NESDIS; OCRM / ERD; Sea Grant; NMFS; NGS; NMSP; CO-OPS; OCS	NOS	Q2, Q4

PPBES Program and ID #	Project Title	Milestones	Lead Program Area	Other CSC Programs Involved	NOAA Partners	Type	Fiscal Qtr
		conferences and workshops.					
<b>NOAA Strategic Performance Objective: IMPROVE PREDICTABILITY OF THE ONSET, DURATION, AND IMPACT OF HAZARDOUS AND SEVERE WEATHER AND WATER EVENTS.</b>							
<b>CEO Performance Measure: Cumulative % of U.S. shoreline and inland areas that have improved ability to reduce coastal hazards impacts</b>							
	Storm Surge Product Development, Coordination, and Extension	Provide on-the-ground assistance for the TPC/NHC Storm Surge Unit to included ensemble and operational surge runs and SLOSH basin updates.	GIS I&D		SPO; NCCOS; NCEP; Coastal Survey Development Lab; TPC; CO-OPS; NGS; MDL; CSP	CSC	Q4

PPBES Program and ID #	Project Title	Milestones	Lead Program Area	Other CSC Programs Involved	NOAA Partners	Type	Fiscal Qtr
	Storm Surge Product Development, Coordination, and Extension	Provide overall coordination and project oversight for the NOS Storm Surge Partnership Project while ensuring execution of the individually lead project tasks.	GIS I&D		SPO; NCCOS; NCEP; Coastal Survey Development Lab; TPC; CO-OPS; NGS; MDL; CSP	CSC	Q4
	Social Science Data Resource to Support Improved Storm Surge Forecasting and Public Outreach	Distribute final report on social science to support storm surge forecasting and public outreach	HD		NWS	CSC	Q3
	Hawaii Tsunami Evacuation Visualization Tool	Completion of the Hawaii Tsunami Evacuation Visualization Tool	PSC		NWS; NOAA Public Affairs	CSC	Q3
	Hazard Assessment Tools - Pacific Islands	Develop an assessment tool for Guam that incorporated both hazards and watershed assessment capabilities.	PSC		NWS;NESDIS; OCRM	CSC	Q4



PPBES Program and ID #	Project Title	Milestones	Lead Program Area	Other CSC Programs Involved	NOAA Partners	Type	Fiscal Qtr
CEO1		<b>Provide technical assistance, project coordination and oversight, and delivery of informational products related to storm surge inundation.</b>	GIS I&D, PSC	HD	SPO; NCCOS; NCEP; Coastal Survey Development Lab; TPC; CO-OPS; NGS; MDL; CSP; NWS; NOAA Public Affairs; NESDIS; OCRM	NOS	Q4
<b>CEO Performance Measure: Number of regions in which capacity was built to address coastal hazards and other weather and water conditions</b>							
	Coastal Storms Program Management and Administration	Conduct wrap up training and outreach for the Pacific Northwest region at CZ07	M&B		NMFS; NOS; OAR; NWS	CSC	Q4
	Coastal Storms Program Management and Administration	Enhance coastal observations and models to improve forecasting in the Southern California pilot regions and develop decision support tools to improve coastal storm related planning and mitigation.	M&B		NMFS;NOS;OAR;NWS	CSC	Q4
	Coastal Storms Program Management and Administration	Establish outreach and extension partnership for the Gulf of Mexico pilot	M&B		NMFS;NOS;OAR;NWS	CSC	Q4
CEO2		<b>Enhance existing observations and models, with integrated products to</b>	M&B		NMFS; NOS; OAR; NWS	NOS	Q4

PPBES Program and ID #	Project Title	Milestones	Lead Program Area	Other CSC Programs Involved	NOAA Partners	Type	Fiscal Qtr
		<b>build regional capacity through the Coastal Storms Program.</b>					
	Coastal Storms Program Management and Administration	Establish network of extension and education professionals and conduct state and regional targeted planning and implementation sessions to build capacity and broaden regional benefits within and beyond the Coastal Storms pilots	M&B		NMFS;NOS;OAR;NWS	CSC	Q4
	Coastal Storms digital forecast and planning decision support tool: Southern California Pilot	Complete development of the CSP Decision Support Tool for Southern California. The tool integrates real-time and forecast weather data with local hazards planning data.	GIS I&D		NWS	CSC	Q4
CEO3		<b>Develop decision support tools and build regional capacity through the Coastal Storms Program.</b>	M&B, GIS I&D		NMFS; NOS; OAR; NWS	NOS	Q4
	Geospatial Support to NWS	Assist the National Weather Service (NWS) to improve graphical display of flood forecasts by developing flood severity inundation layers and maps at 35 NWS river forecast point locations, as well as in developing a topographic/engineering data inventory at 524 NWS river forecast point locations.	GIS I&D		HSD	CSC	Q4

PPBES Program and ID #	Project Title	Milestones	Lead Program Area	Other CSC Programs Involved	NOAA Partners	Type	Fiscal Qtr
	Geospatial Support to NWS	Provide geographic information system (GIS) support and coordination to the Tropical Prediction Center/National Hurricane Center (TPC/NHC), including the conversion of selected NHC hurricane forecast products to geospatial formats and automation of forecast processes	GIS I&D		NWS NCEP/TPC	CSC	Q1

PPBES Program and ID #	Project Title	Milestones	Lead Program Area	Other CSC Programs Involved	NOAA Partners	Type	Fiscal Qtr
CEO4		Provide the NWS and TPC/NHC with geospatial technical coordination and assistance.	GIS I&D		NWS NCEP/TPC; NWS HSD	NOS	Q1 (TPC/NHC), Q4
<b>CEO Performance Measure: Number of data management components in process for integration into IOOS DMAC</b>							
	IOOS Data Best Practices Workshop(s)	Conduct/support best practices workshop(s) on variables (or topics) to be determined.	ISA		NDBC; CO-OPS; NCDDC; NOAA IOOS Program Office; others TBD		Q4
	IOOS Data Transport Laboratory	Summary report of transport mechanism performance and collaboration with regional partners.	ISA		Potential partners include NDBC; CO-OPS, NCDDC, NOAA IOOS Program Office, and others TBD		Q4
	Ocean.US/DMAC Support	Provide overall coordination for the Ocean.US DMAC effort including additional participation on the DMAC Steering Team, the DMAC Data Transport Expert Team, and the DMAC	ISA		NODC;NCDDC		Q2, Q4

PPBES Program and ID #	Project Title	Milestones	Lead Program Area	Other CSC Programs Involved	NOAA Partners	Type	Fiscal Qtr
		Metadata Expert Team (pending DMAC approval).					
	IOOS Applications	Implement a predictive drifter tracker and serve the results via different web-based techniques.	ISA		OCS Coast Survey Development Lab; CO-OPS; OCRM; NDBC; NWS; Chesapeake Bay NERRs; NOAA Chesapeake Bay Office Coastal Prediction Center; NOAA Sea Grant		Q4
	Harmful Algal Blooms	Provide access to data obtained using optical sensors on autonomous underwater vehicle in the bulletin software system.	CRS		CO-OPS; NCCOS; NESDIS	CSC	Q4
	Topographic Change Mapping	Provide elevation data suitable for updating digital flood rate insurance maps to reduce coastal hazards impacts in the Florida counties of Escambia and Walton.	CRS			CSC	Q3
CEO5		<b>Build the capacity of regional partners to develop and implement data management information systems through workshops, data transport testing and evaluation, and DMAC collaboration.</b>	ISA	CRS	NDBC;NCDDC ;NOAA IOOS Program Office;CO-OPS; NCCOS;NESD IS	NOS	Q4

PPBES Program and ID #	Project Title	Milestones	Lead Program Area	Other CSC Programs Involved	NOAA Partners	Type	Fiscal Qtr
<b>CEO Performance Measure: Facilitate the national implementation of IOOS in conjunction with Ocean.US and developing Regional Associations</b>							
	IOOS Regional Associations Capacity Building and CSC Capabilities	Develop strategies that respond to the CSC Needs Assessment of the IOOS Regional Associations.	CMS Ops		NOAA IOOS Office	CSC	Q4
	IOOS Focus Group and IWGOO	Lead the execution of the SIMOR action plan for the RA implementation, serve as SIMOR rep on IWGOO	PPS		NOAA IOOS Office; OAR; NWS; NMFS; NESDIS; NOS	CSC	Q4
	IOOS Grants and Other Agreements	An appropriate funding process/mechanism for Regional Associations beyond the existing cooperative agreements has been established, in collaboration with Ocean.US and other NOAA offices.	CMS Ops		NOS Budget Office; NOAA Grants Office; NOAA IOOS Office	CSC	Q4
	IOOS Grants and Other Agreements	Regional Association multi-year cooperative agreements have been submitted to NOAA/GMD by appropriate deadline	CMS Ops		NOS Budget Office; NOAA Grants Office; NOAA IOOS Office	CSC	Q2, Q3, Q4
	IOOS Grants and Other Agreements	Coastal Observation Technology System applications have been submitted to NOAA/GMD by appropriate deadline.	CMS Ops		NOS Budget Office; NOAA Grants Office; NOAA IOOS Office	CSC	Q2, Q3, Q4

PPBES Program and ID #	Project Title	Milestones	Lead Program Area	Other CSC Programs Involved	NOAA Partners	Type	Fiscal Qtr
CEO6		Build the capacity of regional partners through RA implementation, sharing of lessons learned, and management and administration of various agreements.	CMS Ops	PPS	NOS Budget Office;NOAA Grants Office;NOAA IOOS Office;OAR;NWS;NMFS;NE SDIS;NOS	NOS	Q2, Q3, Q4
<b>NOAA Strategic Performance Objective: ENHANCE ENVIRONMENTAL LITERACY AND IMPROVE UNDERSTANDING, VALUE, AND USE OF WEATHER AND WATER INFORMATION AND SERVICES.</b>							
<b>CEO Performance Measure: Number of CEO-related meetings, courses, and material available and accessible to decision makers</b>							
	Process and Management Training	Deliver 7 trainings (process, management) to a total of 100 d/makers representing at least 5 states	CLS	HD, I&D	OCRM / ERD; Sea Grant	CSC	Q2
	General Conference, Workshop, and Meeting Support	Provide meeting planning and logistical support to 5 meetings and workshops to support a total of 80 d/makers representing at least 5 states	CLS	All	NESDIS; NWS; OAR; NOS	CSC	Q2
	Process and Management Training	Deliver 8 trainings (process, management) to a total of 120 d/makers representing at least 5 states	CLS	HD	OCRM / ERD;Sea Grant	CSC	Q4
	General Conference, Workshop, and Meeting Support	Provide meeting planning and logistical support to 6 meetings and workshops to support a total of 100 d/makers representing at least 5 states	CLS	All	NESDIS; NWS; OAR; NOS	CSC	Q4

PPBES Program and ID #	Project Title	Milestones	Lead Program Area	Other CSC Programs Involved	NOAA Partners	Type	Fiscal Qtr
	Coastal Inundation Mapping Curriculum Development	Develop a GIS-based coastal inundation mapping course.	GIS I&D		<i>To be determined</i>	CSC	Q4
	GIS Training	Deliver 6 geospatial trainings.	GIS I&D		<i>To be determined</i>	CSC	Q4
	Pacific Regional Geodetic Advisor Support	Train and assist various partners and/or intended audience to enhance the horizontal or vertical geodetic foundation.	PSC		NGS;OCS;N MSP	CSC	Q2, Q4
CEO 7		<b>Engage CZM, emergency management, floodplain managers, and others in data, inundation and resiliency-related workshops, conferences, courses, and new curricula.</b>	CLS	HD, I&D, PSC	OCRM / ERD; Sea Grant; NESDIS; NWS; OAR; NOS; NGS; OCS; NMSP; <i>others to be determined</i>	NOS	Q2, Q4
	Publications	Publish three issues of CSC publications	Communications			CSC	Q2
	Publications	Publish three issues of CSC publications	Communications			CSC	Q4
	National Ocean Economics Program	Develop interactive mapping application for NOEP Web site.	HD			CSC	Q4
	Coastal Storms Program Management and Administration	Provide informational outreach materials in support of the overall CSP program, including web site support.	M&B		NOS; NWS; OAR	CSC	Q4



PPBES Program and ID #	Project Title	Milestones	Lead Program Area	Other CSC Programs Involved	NOAA Partners	Type	Fiscal Qtr
CEO 8		<b>Outreach materials developed and delivered (publications, Web sites, informational products).</b>	Communications	HD, M&B, ISA	NOS;NWS;OAR	NOS	Q2, Q4
	Understanding Coastal Resource Management Resiliency Needs in the Regions	Develop recommendations on how CSC and other entities can assist the coastal resource management community in addressing hazard resiliency through training, outreach materials, and tools.	Non PSC Regional		OCRM; Sea Grant; NWS	CSC	Q4
	Understanding Coastal Resource Management Resiliency Needs in the Regions	Understand capacity of the coastal resource management community to address coastal resiliency challenges in the Northeast.	Non PSC Regional		OCRM; Sea Grant; NWS	CSC	Q4

PPBES Program and ID #	Project Title	Milestones	Lead Program Area	Other CSC Programs Involved	NOAA Partners	Type	Fiscal Qtr
	Community Resilience Initiative	Develop a Community Resilience Initiative White Paper that outlines a conceptual framework for resilience and links it to the SDR Grand Challenges for Disaster Reduction.	DO		NOAA Public Affairs; NWS Tsunami Ready and Storm Ready Programs; NCDC; ESRL; NMFS Habitat Conservation Office; ORR; CSP; Climate Program Office	CSC	Q2
	Community Resilience Initiative	Conduct a national forum on a Coastal Index of Resilience Indicators (dependent on higher level funding for outside contract ~\$300K)	DO		NOAA Public Affairs; NWS Tsunami Ready and Storm Ready Programs; NCDC; ESRL; NMFS Habitat Conservation Office; ORR; CSP; Climate Program Office	CSC	Q4

PPBES Program and ID #	Project Title	Milestones	Lead Program Area	Other CSC Programs Involved	NOAA Partners	Type	Fiscal Qtr
CEO 9		<p><b>Facilitate the development of community level resilience assessment and planning processes.</b></p>	<p>Non PSC Regional, DO</p>		<p>OCRM; Sea Grant; NWS; NOAA Public Affairs; NWS Tsunami Ready and Storm Ready Programs; NCDC; ESRL; NMFS Habitat Conservation Office; ORR; CSP; Climate Program Office</p>	<p>NOS</p>	<p>Q2, Q4</p>

**CSC-Level Milestones**

Mstn #	Project Title	Milestones	Lead Program Area	Type	Fiscal Qtr
<b>Perf Meas 1_CEO</b>	<b>Number of regions in which capacity was built to address coastal hazards, other weather and water conditions</b>				
	<b>CSC Hazard Assessment Mapping Solutions</b>	Complete the packaging of the Coastal Services Center hazard assessment tool template in both ArcIMS and Open Source formats so partners can set up and customize the tool for their area using their own data and resources.	GIS I&D	CSC	Q3
	<b>Geospatial Support to National Weather Service</b>	Provide general geospatial and technical support to the NWS regions and head quarters on GIS data delivery mechanisms, including NWS digital services support to efficiently deliver National Digital Forecast Database data in GIS formats	GIS I&D	CSC	Q4
	<b>Community Assessment and Resilience Planning (CARP) Gulf Coast Community Demonstration Project(s)</b>	Award cooperative agreements for community resilience demonstration projects in Northern Gulf of Mexico.	GIS I&D	CSC	Q2
	<b>Storm and Shoreline Products for Practitioners</b>	Produce a document based on findings of the Shoreline Change Conference in 2006 to inform coastal managers about shoreline best practices and actions needed.	GIS I&D	CSC	Q4
	<b>Community Resilience Index (CRI) Resources Integration</b>	Develop an inventory of resilience products and services to extend to users	GIS I&D	CSC	Q1

Mstn #	Project Title	Milestones	Lead Program Area	Type	Fiscal Qtr
	<b>Coastal Storms digital forecast and planning decision support tool: Southern California Pilot</b>	Continue development and maintenance of the Coastal Storms Program (CSP) Inventory Matrix located on the CSP home page. The Matrix provides CSP partners and customers with an interactive search tool to locate the projects and products that best meet their needs.	GIS I&D	CSC	Q4
	<b>Resilience Information Portal</b>	Produce a resilience information portal	ISA	CSC	Q4
	<b>NOAA in the Pacific Integration</b>	Provide greater opportunity for NOAA line offices in Hawaii to collaborate on projects and initiatives.	PSC	CSC	Q4
	<b>Pacific Risk Management `Ohana (PRiMO) Support</b>	Host Annual PRiMO meeting.	PSC	CSC	Q3
	<b>Hawaii Flood Response Tool</b>	Complete the development of the HI Flood Response Tool for the Island of Oahu	PSC	CSC	Q4
	<b>U.S. Government's Contribution to the Indian Ocean Tsunami Warning System Program</b>	Development of the Coastal Community Resiliency Guidebook for the 2004 Tsunami impacted Indian Ocean Region.	PSC	CSC	Q4
	<b>Resilience Community of Practice</b>	Hold 2 community resilience salons for practioners / agency staff	HD	CSC	Q3
	<b>Resilience Training and Technology Transfer</b>	Conduct resilience training needs assessment	CLS	CSC	Q4
	<b>Coastal Management Fellowship Program</b>	Select state agency projects for Coastal Management Fellowship.	CLS	CSC	Q1
<b>Perf Meas 2_CEO</b>	<b>Cumulative percentage of U.S. Shoreline and Inland areas that have improved ability to reduce coastal hazards impacts</b>				

Mstn #	Project Title	Milestones	Lead Program Area	Type	Fiscal Qtr
	<b>Storm and Shoreline Products for Practitioners</b>	Promote the existing Oregon Coastal Inundation Visualization Tool to coastal managers as a case study for viewing water level on the coast in near real-time based on ocean observations. Pursue pilot application in another region if funding levels allow.	GIS I&D	CSC	Q4
	<b>Storm Surge Product Development, Coordination, and Extension</b>	Develop inundation decision support/visualization tool from NOS Storm Surge Partnership modeling effort including topographic and bathymetric data products.	GIS I&D	CSC	Q4
<b>Perf Meas 3_CEO</b>	<b>Increased CEO-related meetings, educational courses, and materials available and accessible to decision makers</b>				
	<b>Geospatial Support to National Weather Service</b>	Develop HURREVAC (Hurricane Evacuation Decision Support Tool) storm surge module to display forecast storm surge on NOAA predicted astronomical tide and update current HURREVAC training and outreach materials, including potentially hosting and facilitatin	GIS I&D	CSC	Q2
	<b>San Francisco Bay Subtidal Habitat Goals Project</b>	Develop and deliver an annotated bibliography on the economic benefits of subtidal habitats relevant to San Francisco Bay.	Non PSC Regional	CSC	Q4
<b>Perf Meas 4_CEO</b>	<b>Number of data management components in process for integration in the IOOS DMAC Standards</b>				
	<b>IOOS Data Transport Laboratory</b>	Two transport mechanisms undergoing testing in the DTL	ISA	CSC	Q1
	<b>IOOS Data Transport Laboratory</b>	Two additional transport mechanism undergoing testing in the DTL	ISA	CSC	Q3
	<b>IOOS Data Transport Laboratory</b>	One additional transport mechanism undergoing testing in the DTL	ISA	CSC	Q4

Mstn #	Project Title	Milestones	Lead Program Area	Type	Fiscal Qtr
<b>Perf Meas 5_CEO</b>	<b>Facilitate the national implementation of IOOS in conjunction with Ocean.US and developing Regional Associations</b>				
		Produce and distribute IOOS success stories and COTS project accomplishments	CMS Ops	CSC	Q4
	<b>IOOS Coordination &amp; Communication</b>	Planning, support, and successful completion of the IOOS Regional Coordination Workshop in Nov 2006.	CMS Ops	CSC	Q2
	<b>IOOS Coordination &amp; Communication</b>	Assist with development of selection and performance criteria for RAs and RCOOS grants and contracts	CMS Ops	CSC	Q3
	<b>IOOS Coordination &amp; Communication</b>	Develop improved mechanisms for sharing lessons learned among RAs.	CMS Ops	CSC	Q4
	<b>IOOS Coordination &amp; Communication</b>	Enhance communication and coordination of RA activities within and between the regions, as well as with COTs partners and appropriate CSC, NOS, and NOAA programs.	CMS Ops	CSC	Q4
		Convey IOOS information through workshop and conference sessions	CMS Ops	CSC	Q4
	<b>IOOS Grants and Other Agreements</b>	Develop a competitive, peer-reviewed process for awarding Regional Ocean Observing System grants and contracts for FY08	CMS Ops	CSC	Q4
	<b>CEO, CMRP &amp; Habitat Programs</b>	Ensure that priority FY08 initiatives proposed through the PPBES process are supported and in the Presidential Budget request for FY08.	PPS	CSC	Q2
	<b>CEO, CMRP &amp; Habitat Programs</b>	Development of the FY10-14 program operating plan for CEO	PPS	CSC	Q4

Mstn #	Project Title	Milestones	Lead Program Area	Type	Fiscal Qtr
	<b>Ocean.US/DMAC Support</b>	Participate in the Gulf of Maine Ocean Data Partnership by attending annual meeting, developing plans and policies, and engaging in the Technical Committee activities.	ISA	CSC	Q1
<b>Perf Meas 8_CM RP</b>	<b>Number of students reached by coastal and marine education programs that meet state and/or national science education standards</b>				
	<b>B-WET Spatial Tech Education Outreach and Support (#19)</b>	Build awareness among 25 - 50 students and teachers engaged in Geo-Spatial activities, specifically GPS and develop user learning materials that meet state and/or national science education content and performance standards in pilot year.	PSC	CSC	Q4
	<b>B-WET Hawai'i Performance Measurement Tool Database (#17)</b>	Development completed for the B-WET Hawai'i Performance Measurement Tool Database	PSC	CSC	Q4



Mstn #	Project Title	Milestones	Lead Program Area	Type	Fiscal Qtr
	<b>Environmental Literacy Program</b>	Increase the number of formal and non-formal education organization using and benefiting from NOAA-related education materials, products and services that meet state and/or national science education content and performance standards.	PSC	CSC	Q4
<b>Perf Meas 10_CM RP</b>	<b>Cumulative number of tools and technologies that improve ecosystem management</b>				
	<b>Needs Assessment and Social Science Tools Coordination and Tech Assist</b>	Complete final triennial survey report	HD	CSC	Q2
	<b>CSC Social Science Plan</b>	Complete NOAA Coastal Services Center Social Science Plan.	HD	CSC	Q3
	<b>Resilience Community of Practice</b>	Develop a resilience community of practice web site	HD	CSC	Q3
	<b>N-SPECT Applications</b>	Release N-SPECT version 2.0	CRS	CSC	Q4
	<b>Northern California Conservation: Linking Land and Sea</b>	Complete an inventory of data relevant for marine and coastal conservation and restoration in the Humboldt Bay area of northern California.	GIS I&D	CSC	Q2
	<b>Digital Coast: Legislative Atlas</b>	Complete Legislative Atlas Web site including Gulf of Mexico regional Internet map service	GIS I&D	CSC	Q1
	<b>Grants Coordination and Technical Support</b>	Provide technical support to Franklin County, FL and Ventura County, CA as they develop spatial data and tools to enhance permitting processes and inform land use planning	GIS I&D	CSC	Q4

Mstn #	Project Title	Milestones	Lead Program Area	Type	Fiscal Qtr
		decisions.			
		Complete federal level georegulations for Hawaii and draft georegulations for the Great Lakes region and Alaska	GIS I&D	CSC	Q4
	<b>CSC Project Geography</b>	Develop Web based CSC Project Geography analysis tool and associated project level spatial datasets	GIS I&D	CSC	Q4
	<b>Digital Resource Development for the Northwest Fisheries Science Center</b>	Complete Web site that highlights research on human-use impacts on Pacific Northwest Salmon health.	LCR	CSC	Q4
	<b>Elwha Watershed Information Resource</b>	Complete characterization of pre-dam removal baseline information resource and website.	LCR	CSC	Q4
	<b>Geospatial Data Coordination</b>	Develop and release the NOAA GIS Committee collaboration Portal	ISA	CSC	Q1
	<b>Geospatial Data Coordination</b>	Develop a summary report of Enterprise GIS activities within NOS	ISA	CSC	Q4
	<b>Geospatial Data Coordination</b>	Maintain the Geospatial One-Stop Oceans and Coast and Hurricane Communities, and participate on the Portal Design and Community Stewards Teams.	ISA	CSC	Q4

<b>Mstn #</b>	<b>Project Title</b>	<b>Milestones</b>	<b>Lead Program Area</b>	<b>Type</b>	<b>Fiscal Qtr</b>
	<b>Geospatial Data Coordination</b>	Re-engineer the code-base for NOS Data Explorer for ArcGIS 9.2 and expand the percent of NOS data sets hosted	ISA	CSC	Q4
	<b>Regional Coastal Water Quality</b>	Assess opportunities and identify audience for an impervious surface information session in California on the applications, differences, and limitations of both CA's and CSC's impervious surface analysis tools.	Non PSC Regional	CSC	Q2
	<b>San Francisco Bay Subtidal Habitat Goals Project</b>	Document FY06 and FY07 methodology in a process document as a reference for developing future subtidal goals projects in other west coast bays and estuaries.	Non PSC Regional	CSC	Q4
	<b>Regional Needs Assessments</b>	Compile a workplan and select a steering committee for the Northeast needs assessment	Non PSC Regional	CSC	Q3
	<b>Regional Needs Assessments</b>	Convene first needs assessment workshop with Northeast regional representatives, and begin review of existing regional requirements documents and surveys	Non PSC Regional	CSC	Q3
	<b>Building GeoSpatial Capacity in the Pacific Region</b>	Inventory of CSC/PSC data holdings in the Pacific on PSC web site	PSC	CSC	Q3
	<b>Updating Nautical Charts and US Coast Pilot 7 for the State of Hawaii and the Pacific Island Territories</b>	Updated nautical chart of Johnston Atoll, Howland Island, Baker Island, Jarvis Island, and Kingman Reef	PSC	CSC	Q4
	<b>Updating Nautical Charts and US Coast Pilot 7 for the State of Hawaii and the Pacific Island Territories</b>	Updated U.S. Coast Pilot Number 7	PSC	CSC	Q4

Mstn #	Project Title	Milestones	Lead Program Area	Type	Fiscal Qtr
<b>Perf Meas 12_CM RP</b>	<b>Number of decision-makers trained in best management practices to improve management of coastal and marine ecosystems</b>				
	<b>Coral Reef Management Fellowship Program</b>	Finalize Coral Reef Management Fellowship Statements of Work with the U.S. island territories	CLS	CSC	Q4
	<b>Web Based Learning Modules</b>	Review and update content and code as required for four on-line learning courses	CLS	CSC	Q4
	<b>Coastal Ecosystem Based Management Training</b>	Pilot initial EBM course module(s) with targeted audience.	CLS	CSC	Q4
	<b>Coastal Management Fellowship Program</b>	Select fellow through the Coastal Management Fellowship Matching Workshop.	CLS	CSC	Q3
	<b>N-SPECT Applications</b>	Deliver N-SPECT training at NEMO University 5	CRS	CSC	Q1
	<b>Ocean Governance - Marine Boundaries</b>	Distribute MMA Boundary Handbook to primary audience	GIS I&D	CSC	Q2
	<b>Northern California Conservation: Linking Land and Sea</b>	Offer 1 relevant training opportunities to project partners to support development and implementation of strategic ecosystem-based conservation goals.	GIS I&D	CSC	Q4
	<b>LCR Outreach</b>	Prepare and deliver a special session focused on using GIS for habitat restoration planning for the 2006 Restore America's Estuaries conference.	LCR	CSC	Q2
	<b>Application of ICM Tool for Landscape Analysis</b>	Establish new and enhanced partnerships with planners and coastal managers to build their capacity to use the updated Habitat Priority Planner (formerly ICM Tool) for ecosystem-based management	LCR	CSC	Q4

Mstn #	Project Title	Milestones	Lead Program Area	Type	Fiscal Qtr
	<b>Enterprise GIS at CSC</b>	Enterprise Enabled: Navigating Toward Enterprise GIS - Lessons Learned.	ISA	CSC	Q4
	<b>Regional Coastal Water Quality</b>	Assess need for and deliver relevant trainings to local partners in two or more regions.	Non PSC Regional	CSC	Q3
	<b>Pacific GeoSpatial E-Learning</b>	GIS for Coastal Management Workshop completed	PSC	CSC	Q2
	<b>GeoSpatial Technical Support to the Pacific Islands</b>	Technical Support Report	PSC	CSC	Q4
	<b>Pacific Islands Vessel and Oil Spill Hazards Support</b>	Conduct training on use of ESI maps in spill response and planning, as well as for other planning purposes.	PSC	CSC	Q3
	<b>Pacific Islands Damage Assessment Support</b>	Conduct natural resource damage assessment workshop in Guam.	PSC	CSC	Q4
<b>Perf Meas 14_CMRP</b>	<b>Percent of coastal and marine areas adequately characterized for management</b>				
	<b>Apalachicola Oyster Habitat Mapping</b>	Deliver oysters maps to Apalachicola NERR	CRS	CSC	Q4
	<b>Texas Benthic (SAV) Mapping</b>	Complete mapping of priority coastal bend study areas	CRS	CSC	Q4
	<b>Coastal Change Analysis Program (C-CAP) Development</b>	Provide C-CAP baseline (1996 and 2001) land cover products for Southern Florida on the web	CRS	CSC	Q1
	<b>Coastal Change Analysis Program (C-CAP) Development</b>	Provide C-CAP baseline (1996 and 2001) land cover products for the Northeast on the web	CRS	CSC	Q2

Mstn #	Project Title	Milestones	Lead Program Area	Type	Fiscal Qtr
	<b>Coastal Change Analysis Program (C-CAP) Development</b>	Provide C-CAP baseline (1996 and 2001) land cover products for the Southeast on the web	CRS	CSC	Q3
	<b>Coastal Change Analysis Program (C-CAP) High Resolution</b>	High Resolution Impervious surface products provided to PSC for distribution to Oahu coastal resource managers	CRS	CSC	Q3
	<b>Benthic Habitat Mapping and Classification</b>	Produce CMECS operating plan	Non PSC Regional	CSC	Q3
	<b>Benthic Habitat Mapping and Classification</b>	Complete habitat gap analysis and develop strategy to fill gaps	Non PSC Regional	CSC	Q4
<b>Perf Meas 16_CMRP</b>	<b>Number of ecosystems/sub-ecosystems with collaborative mechanisms</b>				
	<b>Maine Coast Protection Initiative</b>	Provide a summary of MCPI evaluation findings through a brief summary report and brown bag presentation.	GIS I&D	CSC	Q4
	<b>Maine Coast Protection Initiative</b>	Develop a coastal reference map for Maine that highlights the success of the Maine Coast Protection Initiative in its three focus areas - coastal access, habitat protection, and scenic viewsheds.	GIS I&D	CSC	Q4
	<b>Coastal America Support</b>	Collaborate with Coastal America partners on projects in the Pacific.	PSC	CSC	Q4
<b>Perf Meas 17_Climate</b>	<b>Volume of data and information delivered on-line to NOAA customers</b>				

Mstn #	Project Title	Milestones	Lead Program Area	Type	Fiscal Qtr
	<b>Shoreline Data Management</b>	Develop a composite shoreline dataset for the lower 48 U.S. states	GIS I&D	CSC	Q2
<b>Perf Meas 20_Climate</b>	<b>Regional Associations supported to develop coastal climatological information products (through the mini POP)</b>				
	<b>Support for NOAA IDEA Center</b>	Create opportunities for NOAA offices to partner in supporting the NOAA IDEA Center programs, and leveraging IDEA Center capabilities and applying IDEA Center strategies.	PSC	CSC	Q4
<b>No performance measure assigned</b>					
	<b>Publications</b>	Publish six issues of the Products and Services Bulletin, the email newsletter that focuses on products and services available from the NOAA Coastal Services Center	Communications	CSC	Q4
		Provide CSC teams with support in editing, writing, graphics, and outreach as needed	Communications	CSC	Q4
	<b>Theme Teams</b>	Complete CSC themes process evaluation and deliver recommendations to core team.	DO	CSC	Q1

<b>Mstn #</b>	<b>Project Title</b>	<b>Milestones</b>	<b>Lead Program Area</b>	<b>Type</b>	<b>Fiscal Qtr</b>
	<b>Theme Teams</b>	Provide theme-based planning guidance to the organization for annual and outyear project plan development	DO	CSC	Q2
	<b>DO Management and Administration</b>	Host and report on results of 3rd Annual NOAA in the Carolinas Regional Meeting	DO	CSC	Q2
	<b>Performance Measures Management System for CSC</b>	Collect baseline data	PPS	CSC	Q4
	<b>Project Planning and Reporting Database (aka MIS)</b>	Delivery of initial release of the Center's Project Planning and Reporting Database	ISA	CSC	Q3
	<b>Geospatial Data Coordination</b>	Chair and staff the FGDC's Marine and Coastal Spatial Data Subcommittee and provide support to OMB's Geospatial Line of Business (GLOB).	ISA	CSC	Q4
	<b>Project Planning and Reporting Database (aka MIS)</b>	Evaluate the initial release of the Center's Project Planning and Reporting Database and determine next steps	ISA	CSC	Q4
	<b>Regional Needs Assessments</b>	Compile work plan for implementation of the Pacific Islands needs assessment	Non PSC Regional	CSC	Q4

## Acronyms

AA Assistant Administrator  
 AHPS Advanced Hydrologic Prediction Service  
 AOP Annual Operating Plan  
 B-WET Bay Watershed Education and Training  
 CAC Civil Applications Committee  
 CARP Community Assessment and Resilience Planning  
 C-CAP Coastal Change Analysis Program  
 CDMP Climate Database Modernization Program  
 CEO Coasts, Estuaries, and Oceans  
 CELCP Coastal and Estuarine Land Conservation Program



CGS Coastal Geospatial Services  
CHPP Cooperative Habitat Protection Program  
CIAS Coastal Information and Application Services  
CIS Ops Coastal Information Services Operations  
CLS Coastal Learning Services  
CMECS Coastal and Marine Ecological Classification Standard  
CMRP Coastal and Marine Resources Program  
CMS Coastal Management Services  
CMS Ops Coastal Management Services Operations  
CO-OPS Center for Operational Oceanographic Products and Services  
COTS Coastal Observation Technology Systems  
CRI Community Resilience Index  
CRP Community-based Restoration Program  
CRS Coastal Remote Sensing  
CSC Coastal Services Center (Center)  
CSP Coastal Storms Program  
CWISE Climate and Weather Impacts on Society and the Environment  
CZ Coastal Zone  
CZM Coastal Zone Management  
CZMA Coastal Zone Management Act  
DFIRMS Digital Floodplain Insurance Rate Maps  
DMAC Data Management and Communications  
DO Director's Office  
DTL IOOS Data Transport Laboratory  
EAM Ecosystem Approach to Management  
EBM Ecosystem-Based Management  
EGT Ecosystem Goal Team  
ERD Estuarine Reserves Division  
ESI Environmental Sensitivity Index  
ESRL Earth System Research Laboratory  
FEMA Federal Emergency Management Agency  
FGDC Federal Geographic Data Committee  
FTE Full-Time Equivalent  
FY Fiscal Year  
GIS Geographic Information System  
GIS I&D Geographic Information Systems Integration and Development  
GLOB OMB's Geospatial Line of Business  
GMD Grants Management Division  
GPRA Government Performance and Results Act  
GPS Global Positioning System  
HAB Harmful Algal Bloom  
HC Habitat Conservation  
HD Human Dimensions  
HSD NWS Hydrologic Services Division  
HURREVAC Hurricane Evacuation Decision Support Tool  
ICM Integrated Coastal Management

IDEA NOAA Integrated Data and Environmental Applications Center  
IOOS Integrated Ocean Observing System  
ISA Interoperability, Standards and Access  
IT Information Technology  
IWGOO Interagency Working Group on Ocean Observations  
LCR Landscape Characterization and Restoration  
LEKT Lower Elwha Klallam Tribe  
LIDAR Light Detection and Ranging  
M&B Management and Budget  
MCPI Maine Coast Protection Initiative  
MDL Meteorological Development Laboratory  
MIS Management Information System  
MMA Marine Managed Areas  
NAO National Audit Office  
NCBO NOAA Chesapeake Bay Office  
NCCOS National Centers for Coastal Ocean Science  
NCDC National Climatic Data Center  
NCDDC National Coastal Data Development Center  
NCEP National Centers for Environmental Prediction  
NDBC National Data Buoy Center  
NEMO Nonpoint Education for Municipal Officials  
NERRS National Estuarine Research Reserve System  
NESDIS National Environmental Satellite, Data, and Information Service  
NGS National Geodetic Survey  
NHC National Hurricane Center  
NMFS National Marine Fisheries Service (NOAA Fisheries)  
NMSP National Marine Sanctuaries Program  
NOAA National Oceanic and Atmospheric Administration  
NODC National Oceanographic Data Center  
NOEP National Ocean Economics Program  
NOS National Ocean Service (NOAA Oceans and Coasts)  
NRDA Natural Resource Damage Assessment  
N-SPECT Nonpoint Source Pollution and Erosion Comparison Tool  
NSRS National Spatial Reference System  
NWS National Weather Service  
OAR Office of Oceanic and Atmospheric Research (NOAA Research)  
OCRM Office of Ocean and Coastal Resource Management  
OCS Office of Coast Survey  
OHC Office of Habitat Conservation  
OMB Office of Management and Budget  
OR&R Office of Response and Restoration  
OST Office of Science and Technology  
PDE Project Design and Evaluation  
PPBES Program Planning, Budgeting, and Execution System  
PPI Program Planning and Integration  
PPS Planning and Policy Services

PR Protected Resources  
PRiMO Pacific Risk Management `Ohana  
PSC Pacific Services Center  
RAs Regional Associations  
RCOOS Regional Coastal Ocean Observing System  
RISA Regional Integrated Science Assessment  
SARP Sectoral Applications Research Program  
SAV Submerged Aquatic Vegetation  
SCREAM Southern California Riparian Ecological Assessment Method  
SF Sustainable Fisheries  
SIMOR Subcommittee on Integrated Management of Ocean Resources  
SLOSH Sea, Lake, and Overland Surge from Hurricanes  
SOCD Satellite Oceanography and Climate Division  
SPO NOAA Special Projects Office  
TPC Tropical Prediction Center  
W&W Weather and Water  
WFO Weather Forecast Office