NOAA Coastal Services Center
Annual Operating Plan

Fiscal Year 2005

(January 2005)

NOAA Coastal Services Center
LINKING PEOPLE, INFORMATION, AND TECHNOLOGY

About This Document

This document is the Annual Operating Plan (AOP) for program activities of the National Oceanic and Atmospheric Administration (NOAA) Coastal Services Center (Center) in fiscal year 2005. It is primarily an internal NOAA document that provides information for the reader on the Center's mission, organization, fiscal year 2005 program emphases, and specific project-oriented milestones. Many of the activities described are undertaken in collaboration with partners from the NOAA line offices—NOAA Ocean Service (NOS), National Environmental Satellite, Data, and Information Service (NESDIS), Office of Oceanic and Atmospheric Research (OAR), National Marine Fisheries Service (NMFS), and National Weather Service (NWS)—and other public and private coastal resource management organizations. 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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Table of Contents

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. The nation's coastal resource managers are the Center's primary customers. The Center assists this community by providing access to information, technology, and training. Center projects produce new tools and approaches that often can be applied nationwide. To learn more about the Center and these efforts, visit *www.csc.noaa.gov*.

Operating Principles

- Oriented to customers
- Focused on results
- Committed to partnerships
- National in scope yet local in approach

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

Strategic View

A five-year strategic plan for the Center, established in 2001, provides organizational direction and priorities for long-term investments, annual planning, and project-selection decisions. To view the plan in its entirety, visit *www.csc.noaa.gov/strategic_plan.pdf*. The Center's strategic efforts are categorized into the following themes:

Coastal National Spatial Data Infrastructure. The National Spatial Data Infrastructure (NSDI) is a nationwide effort to improve the utilization of geospatial data within the United States. The Center fully supports this effort for the benefit of local and state coastal resource managers. Center projects in this theme area assist coastal managers in a variety of data-related tasks, including data acquisition, processing, storage, distribution, ease of use, and inclusion in the decision-making process.

Coastal and Ocean Observations. This theme was established following the publication of the strategic plan. In this theme, the Center seeks to work with multiple partners, including managers, academic institutions, the private sector, and nongovernmental organizations, to enhance the availability, utility, and integration of coastal and ocean observations. Center projects in this theme area include developing and maintaining regional observing systems, establishing mechanisms for regional governance, and supporting NOAA's leadership for

interagency planning and execution of the Integrated Ocean Observing System (IOOS), including support for the Ocean.US office.

Habitat. Habitat is defined ecologically as the environment where plants, animals, and other organisms live. For the Center, coastal habitat includes the coastal wetlands and the sea bottoms and water columns of estuarine, coastal, and ocean waters, in addition to the uplands that affect these areas. Center projects in this theme area develop information and tools that help coastal managers integrate the physical, ecological, economic, and social components of habitat protection and management. As the National Marine Protected Areas Center's Training and Technical Assistance Institute, the Center also contributes to a range of place-based habitat research and management efforts.

Hazards. Coastal hazards include both natural and man-made events (chronic and episodic) that threaten the health of coastal ecosystems and communities. This definition includes, but is not limited to, hurricanes, tsunamis, erosion, oil spills, harmful algal blooms, and pollution. Center projects in this theme area work to reduce the environmental, social, and economic impacts from coastal hazards by providing information and tools that facilitate increased decision-support capabilities for coastal managers.

Smart Coastal Growth. Smart coastal growth maintains a balance between environmental, social, economic, and quality-of-life issues. To achieve this balance, a broad spectrum of considerations must be addressed, including cultural resources and the values and beliefs of the individuals in the community. Center projects in this theme area assist communities in their efforts to incorporate smart growth concepts into their planning and decision-making processes.

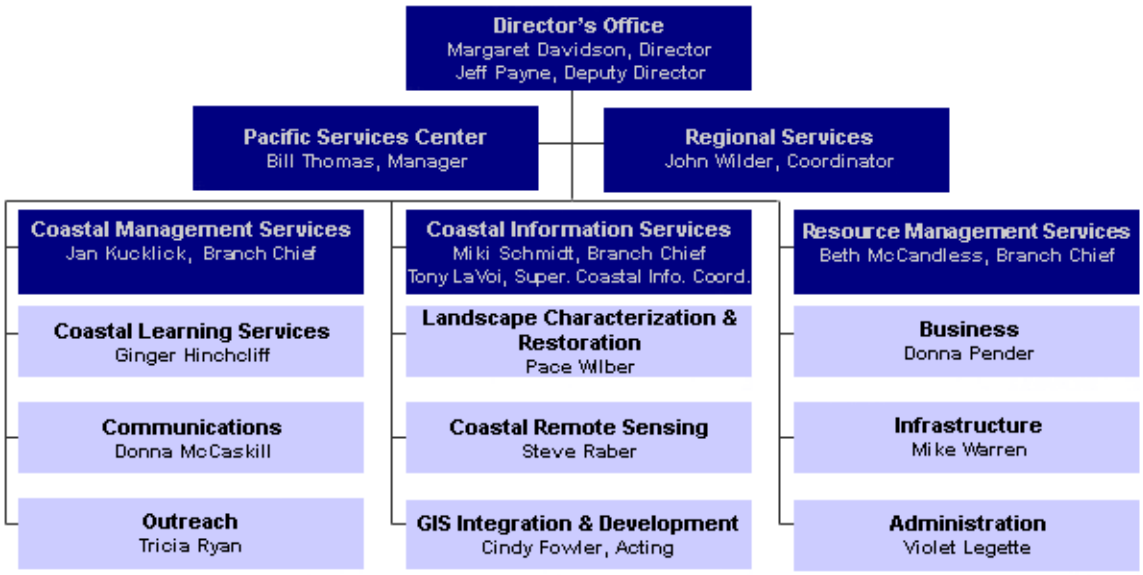
Organization and Culture. This theme area represents the ongoing efforts of Center employees to build an organization that serves its customers and its employees to the best extent possible. Here, the focus is on the structure, function, and policies of the Center and its organizational values, practices, and beliefs.

Philosophy and Organization

The “oriented to customers” operating principle is a guiding force in the organization. The NOAA Coastal Services 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. No project is undertaken unless it 1) has a defined end user and clear utility and 2) is conducted in partnership with users and enablers. The results are then shared with other members of the customer community.

The Center is experienced in setting up distributed systems for interoffice engagement. The organization is managed, in part, along the lines of a matrix management business model. Three attributes of the Center’s business process embody a matrix organization: formal interline office agreements describing programmatic and administrative goals, permanent interline office personnel relationships and accountability, and systematic planning. Specific attributes of the

Center's personnel and planning processes enable the organization to take advantage of a matrix approach to deliver services and products to constituents, both external and internal to NOAA.



The Center includes personnel from throughout NOAA with supervision from multiple line offices, and benefits from talent from other agencies, universities, the private sector, and state coastal resource management authorities. To ensure meaningful cross-organizational planning, execution, and personnel management, this annual operating plan is developed in association with the NOAA line offices. The Center is organized into the Director's Office (DO) and three service areas. According to a proposed reorganization order, the Pacific Services Center will be a staff office of the DO, and the three service areas will become divisions.

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. The DO manages the Pacific Services Center, a regional office located in Honolulu, Hawaii, oversees specific regional coordination projects in other coastal areas, and serves as the coordination hub for the Center's participation in the Integrated Ocean Observing System (IOOS).

Coastal Management Services. Coastal Management Services (CMS) helps develop the abilities of state and local coastal resource managers and planners to perform their duties. Working with the coastal resource management community and the other Center service areas, CMS facilitates management assistance, increases communication and understanding between the Center and its customers, and provides customized training and meeting planning. Housed within CMS is the Marine Protected Area (MPA) Training and Technical Assistance Institute, which provides resource managers with skills, products, and processes related to MPAs, focusing primarily on technology training and assistance, issue-based training and assistance, and process training. CMS conducts its activities through three program areas:

Coastal Learning Services – Coastal Learning Services (CLS) serves as a resource for specialized training assessment, design, and delivery, as well as professional meeting planning and logistics. CLS also provides process and instructional consultation to the coastal management community, as well as opportunities for professional development.

Outreach – Outreach builds relationships with the coastal resource management community, provides services to help ensure the Center's products meet customer needs, and offers opportunities for the development of future coastal management professionals.

Communications – Communications provides public and media relation services, special event planning, brochure and display development, multimedia presentations, and graphics, editing, and writing support for Center staff members and external customers.

Coastal Information Services. Coastal Information Services (CIS) houses the Center's data management, analysis, and product development capabilities. Scientific and technical capabilities include coastal remote sensing, coastal change analysis, geographic information system (GIS) development and application, coastal information accessibility, environmental characterization, habitat restoration, watershed modeling, GIS-based risk and vulnerability assessments of coastal hazards, and decision support tool development. CIS focuses on developing and providing access to broad-based information and technology tools for coastal managers. CIS conducts its activities through three program areas:

Coastal Remote Sensing – The Coastal Remote Sensing (CRS) program provides coastal resource managers with practical data products utilizing the latest technology and developments in remote sensing. CRS works with data streams from satellite, airborne, and *in-situ* sources to identify new or underutilized remote sensing technologies, such as topographic Light Detection and Ranging (LIDAR) and acoustic sensors, and develops remote sensing data products that aid decisions in the coastal and marine environment.

GIS Integration and Development – The GIS Integration and Development (GIS I&D) program plays a key role in many of the Center's projects. GIS I&D specializes in linking the technical benefits of GIS and related technologies with the needs of its customers to enhance their decision-making capabilities. GIS I&D accomplishes its mission in a number of different ways: spatial data development, data integration, decision-support system development, software application development, database programming, metadata skills and services, Web services, training, outreach, and technical support.

Landscape Characterization and Restoration – The Landscape Characterization and Restoration (LCR) program identifies management issues for watersheds and examines how interrelationships among ecology, land use, demographics, and socioeconomic trends affect those issues. LCR helps coastal resource managers include knowledge of ecosystem processes in management, regulatory, and land-use-planning decisions. LCR also provides access to data, products, and information for coastal resource managers and the public through the Center's library.

Resource Management Services. Resource Management Services (RMS) is responsible for the day-to-day operations of the Center. RMS ensures that the Center executes its mission in compliance with regulations, and it serves as the liaison with the NOS Office of Management and Budget and the Eastern Administrative Support Center (EASC). RMS conducts support activities that include grants, real and personal property management, and human resources. The branch serves as the Center's coordinator for audit responses and all administrative, financial, acquisition, and information technology procedures. The three programs of the RMS branch are Administration, Business, and Infrastructure.

Administration – Administration has responsibility over the Center's human resources, grants, audits and property. The program handles all personnel actions for local and regional Center staff members, serving as liaison with EASC Human Resources. Grants in the range of $5 million to over $30 million annually, depending on appropriations, are processed and monitored by the program. Audit responses for the Center are handled by the program. As the Center property custodian, the program certifies all final property inventories and reports required by EASC.

Business – Business includes all acquisition and finance operations, operational direction and expertise for many of the Center's administrative support activities, and the responsibility for Financial Management Center 10-15. The administrative operations include acquisition, property, and records management. Financial management activities include budget execution, certification of funds, preparation of budget operating plans, electronic input into the Department of Commerce (DOC) accounting management system (CAMS), analysis and internal distribution of financial reports and statistics, coordination of all interagency agreements, and management of the travel manager system. Business also serves as the financial and acquisition liaison with external partners.

Infrastructure – The infrastructure group provides technical management of the Center's real property, shared centralized information and telecommunications systems, and common network systems. The Center currently owns two buildings (50,000 square feet). This activity ensures that all staff members are supported with an energy-efficient, safe, secure, clean, and compliant environment. The infrastructure group designs and maintains the Center's local and wide-area networks as an integrated part of its services.

Fiscal Year 2005 Program Highlights

Customer Input Biggest Success Factor
The NOAA Coastal Services Center's commitment to serving the nation's coastal resource management community is the organization's most defining operating principle. Finding ways to keep an in-depth knowledge base of customer requirements and capabilities ensures that the organization is focused and on target.

Needs assessments and product and training evaluations are ongoing tools used to pinpoint customer needs, as is the triennial customer survey. The Center is adding to these efforts by incorporating outside consultants to fine-tune the organization's customer assessment strategies. Professional survey firms are working to evaluate and improve the triennial customer survey, two upcoming training courses, and the Center's magazine and newsletter. As a part of the organization's 10-year commemoration, the Center will also be undergoing an in-depth strategic assessment process that will include staff, customers, and partners. The goal is 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 next five years.

Social Science Tools for Coastal Managers
While the natural science components of coastal resource management are important, state and local coastal resource managers have identified the human dimensions of coastal issues as the most difficult elements to address. Managers need assistance characterizing public perceptions of emerging issues—such as public access, land use planning, recreation trends, and resource valuation—and integrating diverse interest groups into decision-making processes. Social science tools can also offer critical support for evaluating program effectiveness.

The Center is actively developing social science decision-support tools and training to assist coastal resource managers. For example, social assessments are underway in Ohio, Maine, and Maryland, visitor use management plans are being developed for protected areas in Florida and Maine, and a Social Science for Marine Protected Areas Web site has recently been released. Through a collaborative partnership with other NOAA offices and the USDA Forest Service, the Center is creating a new module of the National Survey on Recreation and the Environment that will directly respond to the information needs of coastal resource managers regarding outdoor recreation. Center staff members are also integral members of the team developing the broader National Ocean Service Social Science Plan.

The Center will be working with the National Ocean Economics Project (NOEP) in an effort to estimate the value of the ocean economy. The Center will use existing relationships with coastal resource managers to disseminate NOEP products, develop a Web interface to deliver information, and assist with outreach and training. Now in the last year of a three-year study to examine regional economic and policy drivers for ocean and coastal observing systems, requirements will be refined for the environmental information these systems will deliver. In addition, the Center will work with a university and private-sector partner to deliver a 2005 fall semester graduate-level course utilizing ocean and coastal observations data for business decision making.

Providing Networking and Information-Sharing Opportunities
The Center's survey mechanisms routinely report that state and local coastal resource managers find learning from peers to be one of the most effective learning tools that they employ. The Center therefore provides as many of these opportunities as possible. In 2005, the Center will coordinate and serve as the executive directorate for the world's largest meeting of coastal resource management professionals, Coastal Zone 05. This conference will be held in July in New Orleans. The Center will also host GeoTools '05, a unique conference and workshop dedicated to meeting the technology needs of state and local coastal programs. This conference will be held in Myrtle Beach, South Carolina, in March 2005. Both of these conferences will provide a multitude of networking and discussion opportunities.

Advancing Integrated Ocean Observing Systems
The nation's ocean and coastal observing systems represent a tremendously valuable data resource. Expanding the use of these data is one of the goals of the Integrated Ocean Observing System (IOOS) initiative. The Center is involved with several efforts to further the national and regional IOOS, including administration of a series of congressionally directed Coastal Observation Technology System (COTS) grants created to build coastal and ocean observing capabilities. In fiscal year 2005, the Center will bring these grant recipients, Office of Naval Research grant recipients, and representatives of the nascent IOOS regional associations together for a workshop to increase data integration and coordination among the projects. The Center will also work with National Ocean Service offices, end users, academia, and the private sector to develop and validate future requirements for the NOS contributions to the IOOS.

The Center is also working on several initiatives designed to bring coastal ocean data to the state and local coastal manager. These include a project in the Chesapeake Bay that will make data available to the public from new in-situ monitoring systems, and the collection of numerous case studies that will be used to expand the use of these data. Another is the Center's involvement in planning, establishing partnerships for, and initiating a pilot project in the Gulf of Mexico that demonstrates utility of coastal ocean data and promotes the National Ocean Service as the global leader in integrated management of the oceans.

Expanding Regional Presence Contributes to NOAA's Effectiveness
The Center has found that in many instances having a permanent presence in an area provides many benefits. The Center can gain a better understanding of customer needs as employees work directly and regularly with the customer, and the Center can target NOAA products and services because the Center's employees better understand NOAA's capabilities. The Center is therefore expecting to expand its regional presence in 2005. During 2005, the Pacific Services Center, a regional center serving the Pacific Islands from Hawaii, will host an NOS Pacific regional planning workshop, offer professional skills-related training to Pacific Island coastal and ocean resource managers, and acquire satellite imagery for 100 percent of the U.S. flag Pacific Islands' coastline and inland areas. PSC will continue to manage the Pacific Islands Assistantship and plans to begin recruitment and selection of the next round of assistants. An assessment of the program also will be conducted to evaluate any future changes.

Several NOAA individuals (Center and Center-shared personnel) are also stationed in the Northeast, Gulf of Mexico, West Coast, and Mid-Atlantic and are contributing to the Center's regional presence. Working with NOAA offices, other agencies, and state and local partners, the Center will focus on improving regional service in the Great Lakes and the Gulf Coast in 2005.

Land Use Is a Big Concern

Countless surveys have listed land use issues as one of the biggest concerns of state programs. The Center uses land cover data to create products and services that improve land use planning efforts such as smart coastal growth and coastal conservation. A product developed last year uses a real site in coastal Georgia to show how different land use alternatives will impact economic, social, and environmental values. In 2005, the results of this effort will be showcased to other coastal communities faced with similar decisions. NOAA is also finalizing a work plan with the National Sea Grant Office and the U.S. Environmental Protection Agency to support sustainable coastal development efforts.

Center partnerships in coastal conservation, as well as planning organizations, will use NOAA products and services to tackle on-the-ground land use and land cover issues. In the Pacific Northwest, the Center will be working with The Nature Conservancy to improve its methods for identifying priority conservation areas that consider marine resources. In Maine, the Center is collaborating on a coastal protection initiative. Communities need data to help them see the big picture, so the Center will continue to acquire and classify satellite imagery to provide land cover data for the coastal zone to assist with land use planning.

Emerging Technology

The role of geospatial technology in coastal resource management decision making continues to demonstrate its significance. At the same time, many in the community remain perplexed when it comes to choosing the right technology for the job. The Center's role in this effort often is to help them find and use the appropriate technology and data, and to help programs know what the private industry provider has to offer. At the same time, the Center helps the software and data providers understand the needs of the coastal resource management community.

An important, relatively new technology trend is in visualization and scenario development. This technology helps the community and the public "see" the potential impacts of their decisions before a decision is made and has had great success with docks and other water-related permitting programs. In 2005, a three-dimensional GIS mapping system for use in coastal resource management and port security applications will be demonstrated in Florida. The applications for this technology are anticipated to grow as more programs learn about its potential. Other technology growth areas include improvements to the data and technology used to map coastal land cover through the Coastal Change Analysis Program (C-CAP).

Training and Capacity Building

This is one of the cornerstone areas of the Center, as the coastal resource management community continues to hunger for more information. Last year 1,479 people were trained in 39 locations. While the Center currently has 18 classes available, the curriculum changes according to constituent needs and feedback. This year the Center will introduce two new Web-based courses, on Web content design and evaluation and the public trust doctrine. The Center is also

investigating a science to management class, which will look at the skills needed to move from a science position to a management position. With several partners, the Center will co-host the Vulnerability Assessment Techniques IV workshop, to assist coastal emergency managers in using data and forecast information in decision making. The Center will continue to update its technology courses as hardware and software companies bring new tools to the market.

Regional Geographic Information System (GIS)-Based Decision Support Tools
The Center continues to work with customers and stakeholders to design and build decision-support tools that focus on coastal resource management issues. GIS-based tools make use of spatial and remotely-sensed data resources, as well as scientific, political, and socioeconomic knowledge, to inform decision-making processes. The Center will complete at least five decision-support tools in 2005:

- The South Carolina Marsh Islands Tool will support ocean and coastal resource management agencies with assessing resource sensitivity and potential impacts associated with permitting access to, and development of, marsh islands.
- The Nonpoint Source Pollution and Erosion Comparison Tool enables resource managers to make informed decisions about water quality, including surface water runoff, nonpoint source pollution, and erosion, by examining the relationships between land cover, soil characteristics, topography, and precipitation.
- The American Samoa Benthic Terrain Modeler tool provides techniques to characterize the benthic landscape from multibeam bathymetry, allowing coastal and marine resource managers to examine deepwater areas and identify possible "hotspots" for biodiversity.
- The Integrated Coastal Management tool is designed for local planners, conservation groups, and coastal resource managers to rank potential restoration and conservation sites, and analyze “what if” scenarios for proposed changes in land use or land cover.
- The Southern California Riparian Ecosystem Assessment Method examines the habitat, hydrologic, and biogeochemical functions of riparian areas on a regional or landscape scale, which will aid the Southern California Wetland Recovery Project in prioritizing its regional preservation and restoration efforts.

Program Collaboration with NOAA Line Offices

“Partnerships” is one of the primary operating principles at the Center. Partnerships within NOAA are an important part of this equation, as the Center strives to be an integral part of the team working to make NOAA goals a reality, and to bring multiple talents to the table to focus on the needs of a mutually defined customer base. Most Center projects include other NOAA partners, but the Center also serves on many NOAA and interagency initiatives, a number of which are listed below:

- NOAA Enterprise Geographic Information System
- NOS Enterprise Geographic Information System
- NOS Remote Sensing Concept of Operations
- NOAA Coasts, Estuaries, and Oceans Program

- NOAA Coastal and Marine Resources Program
- NOAA Habitat Program
- NOS Integrated Observations Team and NOS Observations Advisory Council
- IOOS Data Management and Communications
- U.S. Global Ocean Observing System Steering Committee
- National Science and Technology Council Subcommittee on Disaster Reduction
- NOAA Data Management Committee
- Ocean.US Steering Committee
- NOS Global Leader in Integrated Management of the Ocean pilot projects
- NOS Integrated Modeling Team
- National MPA Center
- Geospatial One Stop
- Federal Geographic Data Committee

National Marine Fisheries Service

During fiscal year (FY) 2005, the Center and NOAA Fisheries will jointly manage two federal and three contract personnel. The two federal positions represent the Office of Habitat Conservation (OHC) and the Office of Science and Technology. One contract position is funded by OHC and located at the Center, and two contractor positions are funded by the Center and located at the Northwest Fisheries Science Center. The Center and NOAA Fisheries will jointly fund three grants through the NOAA Community-based Restoration Program (CRP). In addition to these efforts initiated during FY 2005, 1.5 FTE of Center personnel will assist OHC in managing cooperative agreements and contracts initiated during FY 2003 and FY 2004 under CRP or special appropriations to NOAA Fisheries for mapping oyster reefs in South Carolina.

Habitat restoration, especially the CRP, remains a fertile ground for collaboration between the Center and NOAA Fisheries because both groups pursue habitat restoration by working through coastal resource managers. The South Carolina Oyster Restoration and Enhancement (SCORE) program, funded by CRP, was recognized by Coastal America and by the Society for Ecological Restoration as a model program during 2004. During FY 2005, Center efforts will focus on another CRP partner, Circuit Rider Productions, which is restoring habitat used by migrating salmon along the Russian River, California. The Center also will work with OHC during FY 2005 to develop a training program for CRP grant recipients. The goal of this training is to help CRP partners more frequently monitor the success of their restoration projects so that NOAA Fisheries can better include CRP results in NOAA's Government Performance and Results Act and other performance measures. The Center also is working with the NOAA Habitat Program on an effort led by OHC to review historical land cover data to establish more precisely a critical element of the Program Planning, Budgeting, and Evaluation System (PPBES), the 100 percent requirement for the amount of habitat that requires restoration. Establishing this requirement for habitat restoration was a specific outcome of the PPBES program baseline assessments.

Benthic habitat mapping is another focus for collaborations between the Center and NOAA Fisheries. The Center and OHC have jointly funded and managed a 2-year effort with NatureServe and others to develop a framework for classifying benthic habitats in coastal and marine waters. The initial framework will be completed during early FY 2005. Also during this

year, the initial large-scale test of the framework will be done in the Columbia River Estuary where the focus of the test will be on the utility of the framework in mapping habitats used by salmonids during their migratory and juvenile stages.

In addition to these collaborations, several other activities at the Center during FY 2005 are of value to NOAA Fisheries. The Center continues to fund and manage the NOAA's Coastal Change Analysis Program (C-CAP), which is dedicated to the development, distribution, and application of land cover and change data for the nation's coastal zone. NOAA Fisheries led the establishment of C-CAP within NOAA. Baseline data for the coastal zone are nearly complete and ready for use by fishery scientists and managers. Center efforts to establish regional associations for the Integrated Ocean Observing System include working with fishery managers to validate and establish future requirements for IOOS.

National Environmental Satellite, Data, and Information Service

The Center coordinates and collaborates with NESDIS on a number of different levels, particularly through four shared FTEs, two from the NESDIS Oceanic Research and Applications Division (ORAD) and two from the NESDIS National Oceanographic Data Center (NODC). These personnel are located in three separate program areas at the Center, with one person responsible for managing and supervising an entire program.

Collaborative activities generally include remote sensing, data rescue, management and archiving, and inter-office coordination. The Center collaborates with the ORAD and its Coastwatch program regarding the use of ocean color products in coastal decision-support systems and resource management applications. The Center continues to work with the NESDIS National Climate Data Center (NCDC) and its Climate Database Modernization program (CDMP) to develop a comprehensive high-resolution shoreline database of historic and contemporary shoreline products for use by NOAA constituents. In addition, the Center and NCDC jointly fund the Climate and Weather Impacts on Society and the Environment (CWISE) cooperative agreement with North Carolina State to generate climate products and coastal climatology data resources for users. The Center works with NESDIS on IOOS data management activities. All data content, quality, and archiving activities at the Center are coordinated through NESDIS. Fiscal year 2005 collaborative activities of note include the following:

Remote Sensing Activities:

- Joint participation on the NESDIS-led Coastal Ocean Applications and Science Team (COAST), associated with the GOES-R satellite program.
- Joint participation in the use of Coastwatch products for the NOS operational Harmful Algal Bloom (HAB) bulletin system (ocean color), and for a prototype IOOS data and information portal (sea surface temperature).
- Joint participation in the NESDIS-led Ocean Color Product Oversight Panel (OCPOP) meeting, to be hosted by the Center in February 2005.
- Joint development of a new primary productivity Coastwatch product.
- Coordination of NOAA activities associated with the implementation of the Commercial Remote Sensing Space Policy (CRSSP).

- Coordination of the use of classified data assets through the Civil Applications Committee (CAC).

Data Rescue, Management, and Archiving:

- Partnership to continue shoreline data rescue and database development, valued at $1.2 million in FY 2005.
- Coordination with NOAA Data Centers to ensure all Center data and metadata are archived appropriately.

Oceanic and Atmospheric Research

The Center and NOAA Office of Oceanic and Atmospheric Research, specifically the National Sea Grant College Program, will continue and expand their previous years' interactions through two shared federal FTEs. The first shared position collaborates with the extension programs in the 30 Sea Grant programs across the country and develops training programs 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.

The second shared position provides team leadership for the Center's Outreach program. This shared position, new in FY 2005, will work 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. In FY 2004, the Center and the national Sea Grant office partnered with NOAA's Office of Ocean and Coastal Resource Management to enter into an agreement with the U.S. Environmental Protection Agency to formally collaborate on smart coastal growth projects. Specifically, the Center will work with Sea Grant and the other federal partners to develop a training course for state coastal resource managers on smart growth.

The Center will also continue its strong partnerships with the National and state Sea Grant offices on the Nonpoint Source Education for Municipal Officials (NEMO) project, in Sea Grant theme team areas such as fisheries, coastal communities and economies, coastal natural hazards, and ecosystems and habitats, and through the Coastal Storms program with projects in the southeast, Pacific northwest, and Southern California.

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. Initiatives such as the Coastal Storms program have served as key points of collaboration between these groups. Ongoing and planned collaborative efforts fall into three major categories:

1) *New services and products demonstrated or planned through the Coastal Storms program:*

- Establish the next Coastal Storms program pilot area in Southern California based on needs expressed through user forums to address coastal communities concerns for flooding.
- Plan activities for the Pacific Northwest pilot to use ocean observing system data to create coastal erosion decision-support tools and improve flood forecasts on the Columbia River through NWS and NOS model comparison and data sharing.

2) *New techniques for graphical flood impacts:*
   - Develop graphical flood impact maps (based on NWS flood impact information through its Advanced Hydrologic Prediction Service efforts) and implement pilot projects that coordinate mapping locations and risk conveyance products in conjunction with the Federal Emergency Management Agency (FEMA) map modernization program.
   - Incorporate seven more states into the FEMA HURREVAC Inland Flood Module, bringing the total to 20 states, and develop a training module and brochure for HURREVAC Inland Flood Module.

3) *NOAA storm surge team and support to NWS Digital Services Branch:*
   - Lead NOAA-wide storm surge assessment team to develop a plan for implementation of a comprehensive storm surge forecast, including the associated observational requirements, capabilities, and opportunities.
   - Serve on the Digital Services Branch NWS to evaluate new digital and graphical forecast products and participate in focused outreach efforts to ensure the forecast needs of the coastal management community are being met, while meeting the NWS mission of protecting life and property.

National Ocean Service

During FY 2005, the Center will be undertaking many projects that integrate across programs within NOS. These efforts include finalizing the NOS remote sensing concept of operations (CONOPS) plan, providing sector-based requirements information to help guide NOS and NOAA contributions to IOOS, conducting a pilot project in the northern Gulf of Mexico that demonstrates the utility of coastal ocean data and promotes NOS as a leader in integrated management of the oceans, completing the Marine Boundaries Best Practices Handbook (in support of the Federal Geographic Data Committee), and releasing a decision-support system for tracking oyster larvae dispersal in the Chesapeake Bay.

The Center and other NOS offices will conduct scoping sessions with federal, state, and local officials for a Southern California pilot of the Coastal Storms program. Other coastal hazards projects include two workshops with the Office of Coast Survey (OCS) on user needs related to storm surge modeling and forecasting: one in conjunction with the Coast Survey Development Lab (focusing on technical aspects of existing storm surge models) and the other in collaboration with the NWS, FEMA, U.S. Army Corps of Engineers, National Emergency Management Association, Coastal States Organization, and the Association of State Floodplain Managers.

The Center is working with the Office of Ocean and Coastal Resource Management (OCRM) on the training course, "Assessing GIS for your Organization," to be held at the National Land Trust Rally, and will work with OCRM and the International Program Office (IPO) to develop training

materials for the "Understanding Marine Protected Areas for Managers" course. The Center will also complete, print, and distribute three dock and pier inventories in coordination with OCRM and the National Centers for Coastal Ocean Science (NCCOS). The NOAA Coastal Management and Coral Management Fellowship program, which places fellows with state coastal management programs, will continue in FY 2005, in cooperation with OCRM and the Office of Response and Restoration (OR&R). As NOS efforts in social science increase, the Center will work with OCRM and the Special Projects Office (SPO) to apply social science to coastal decision making by developing a module on coastal resources for the National Survey on Recreation and the Environment.

During FY 2004, the Center developed and tested several processes for the Gulf of Mexico Harmful Algal Bloom (HAB) Bulletin. These are being transferred to operational status at the Center for Operational Oceanographic Products and Services (CO-OPS) during the first quarter of FY 2005. Other efforts in this area include developing a project plan for HAB detection in the Pacific Northwest and hosting an annual planning meeting of all offices involved in the HAB Forecast System.

In ocean observations, the Center will continue to collaborate with CO-OPS, NWS, the National Data Buoy Center, and the Coastal Observation Technology System (COTS) award recipients to develop an "enterprise data management process" that channels data streams from COTS partners through NOAA data quality control and distribution processes.

The Pacific Services Center (PSC) will complete acquisition of current high-resolution satellite imagery for 100 percent of U.S. flag Pacific islands' coastline and inland areas. This project is in conjunction with several NOS offices, including the National Marine Sanctuaries (NMS), National Geodetic Survey (NGS), OCS, NCCOS, and OR&R. PSC is also collaborating with OCS and NGS to conduct community workshops on height modernization in Hawaii, which should promote safe navigation and environmental integrity in Hawaii and the Pacific Islands.

Program Planning and Integration

NOAA's Office of Program Planning and Integration (PPI) is leading the implementation of NOAA's Strategic Vision by developing and evolving NOAA's Strategic Plan, managing designated programs using matrix principles, and promoting the development of effective programs by integrating talent, resources, and capacity across NOAA. The Center works with PPI primarily through involvement with matrix programs in the PPBES. Most of 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 Ecosystem Goal Team and the Coasts, Estuaries and Oceans program (CEO) in the Weather and Water Goal Team.

The Center leads the CEO program. CEO is composed of the Center, OAR's Environmental Technology Laboratory, NESDIS' Ocean Remote Sensing Program, the NOAA Coastal Storms Program, and the National Data Buoy Center, as well as the majority of the NOAA congressional interest items for the Coastal Observing Technology System and Regional Coastal Ocean Observing Systems. The Center and CEO work with the NOAA Weather and Water 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 in NOAA's Ecosystem Goal. CMRP is composed of the Center, OCRM, NMS, the Marine Protected Areas Center, the Special Projects Office, the International Programs Office and the Cooperative Institute for Coastal and Estuarine Environmental Technology. The Center and CMRP work with the NOAA Ecosystem Goal Team to build healthy and productive coastal and marine ecosystems that benefit society, and inform the public so they can serve as stewards of these ecosystems. The Center also supports the Ecosystem Goal by serving as a collaborating program on the Habitat Matrix Program.

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

Management Information

Management Issues

Strategic Assessment. In 2005 the Center will undertake an organization-wide strategic assessment, with results including a new strategic plan, Center logic model, and performance measures. Management issues that will require sustained attention in this process by Center management and staff include the following:

Performance Measurement: The Center will improve the use of performance measurement techniques in monitoring, assessment, and management. The Center has been using a systematic approach to developing performance measures in FY 2003 and 2004 by first using logic models to document activities, outputs, and outcomes. This year, logic models will be finalized, and performance measures will be developed for a wide range of activities, including programs and operations. This information will be shared with NOS and NOAA offices in March, evaluated by a Blue Ribbon Panel in April, and subsequently used to support planning decisions.

Blue Ribbon Panel Review: The Center will invite a group of experts to assist with continued strategic direction setting and evaluation of current efforts, which will contribute to the Center's Strategic Plan for 2006-2010. The Center is committed to inviting independent critical analyses and has conducted several Blue Ribbon Panel reviews over the last 10 years. The scope of this review will include an examination of mission and effectiveness to ensure that programs are responsive to customer needs. This panel will coincide with a 10^{th}-year anniversary celebration.

NOS and NOAA Coordination: The Center will continue its efforts to establish productive interactions with other NOAA offices. As part of the strategic assessment, the Center will evaluate information from the NOAA and NOS strategic plans, PPBES goal and program priorities, the U.S. Commission on Ocean Policy report, and various legislative requirements. This evaluation will serve to prioritize the most important drivers for Center strategic decisions in the near future, and will help to frame the strategic plan as it relates to the NOAA and NOS plans. The Center will also engage with NOS and NOAA offices to review the strategic analysis, and provide input on the draft logic model and performance measures. Meetings with NOAA offices, and the recommendations of the BRP, will be key considerations in determining the Center's future direction and in the drafting of the Center's strategic plan.

Center Expansion. During FY 2002, the Center began a process of building maintenance and improvement planning, including architectural and engineering studies for facility expansion, demolition, and security needs. New space will be created to meet current needs and expectations for growth and partnering, and to maintain an optimal work environment for employees. A contract for construction was awarded at the end of FY 2004, and construction will begin in FY 2005. During this process, the Center will also be coordinating with the Federal Law Enforcement Training Center (FLETC) bureau of the Department of Homeland Security. The Center will work with FLETC to develop an agreement to ensure the most beneficial joint use of NOAA Pier Romeo, including an initiative to upgrade and harden the pier. In addition, FLETC will be enclosing the approximately 150 acres of property surrounding the Center into a federal enclave. All security of the fenced enclave will be entirely managed and controlled by FLETC, including physical access to the NOAA property and delivery of all mail.

Contract for Information Management and Technical Support Services. The Center awarded a new five-year technical and information management services contract in the last quarter of FY 2004. During its base year, this contract will provide the Center with over 90 staff members, who represent about half the personnel working for the Center. Award of this contract was a year-long effort that included over a dozen staff members from the Center and the NOAA Eastern Administrative Support Center, working to select a proposal that offered the best value to the government. The challenge during FY 2005 will be to effectively implement the new contract and ensure a highly capable contract workforce is sustained as a vital part of the Center's team.

Organizational Learning, Diversity, and Employee Development

The Center will continue to foster the ideals of a learning culture. Strategies include the following:

- Working to ensure that employees understand and support the mission, goals, and values of the Center, NOS, and NOAA.
- Using participatory decision-making processes, with shared leadership when appropriate, and encouraging the establishment of integrated, cross-functional teams.
- Facilitating change through coaching and empowering employees.
- Encouraging the introduction of new ideas for continuous improvement.
- Creating opportunities for learning from all activities and for transferring skills and knowledge gained to others.

Principal organizational learning and employee development opportunities include the following:

1) *Prioritize the objectives and strategies in the Center's organization and culture strategic theme and take action to address specific concerns and needs.* An overarching motive is to realize the Center's vision to be the most useful government organization to those who manage the nation's coasts. To do this, the Center must be an outstanding workplace. The Center should be recognized as having a valued workforce that demonstrates skill, creativity, dedication, and a willingness to live the vision. We may stimulate achieving this vision by

    a) building a high-quality staff with expert knowledge and skills,
    b) supporting pathways to success for each employee, and
    c) creating a winning and enriching environment.

2) *Invest in training, professional development, and learning*. The Center will support a variety of training opportunities to maintain and improve employees' skills. Employees are encouraged to link training and professional development opportunities with their individual career plans. Support for attendance at professional conferences will also continue to be provided. Learning opportunities may extend as well to those that can be provided by Center staff members to the Charleston area community. For example, Center staff members have worked with local schools to introduce students to the occupations supported at the Center, and to serve as school buddies to help tutor students in local elementary schools.

Fiscal Year 2005 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 Ocean Service 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 initial base budget planning estimate for FY 2005 is $22.7 million in direct funding. Changing priorities or unexpected events during the year may alter spending and project plans.

NOAA Coastal Services Center
FY 2005 Base Budget Estimate
(by service area) $ in 000

	Resource Management Services	Coastal Management Services	Coastal Information Services	Director's Office	Regional	Director's Discretionary Fund	TOTAL Base
TOTAL PLAN	**3896.8**	**3453.1**	**9266.7**	**1183.8**	**1110.4**	**2834.2**	**22670.1**

The following table represents the estimated resources that may be received by the Center directly or indirectly (e.g., MPA funds are received by the National MPA Center and allocated to programs such as the MPA Training and Technical Assistance Institute). The distribution of these funds is listed below.

NOAA Coastal Services Center
FY 2005 Other Direct and Indirect Budget Resources
(by program) $ in 000

	Direct Funding							Indirect Funding (estimate)	Total Other Direct and Indirect
	Pacific Services Center	Coastal Storms Initiative	Coastal Observation Technology System	Integrated Ocean Observing System*	MS/LA Digital Coast	Coastal Change Analysis	Procurement Acquisition and Construction	MPA Training and Technical Assistance	
TOTAL PLAN	**2217.7**	**2464.1**	**2145.8**	**29198.1**	**788.5**	**492.8**	**6308.2**	**707.1**	**44322.3**

*This is a summary of Integrated Ocean Observing System funding comprised of Soft Earmarks.

NOAA Coastal Services Center
FY 2005 Employees

CSC FTE	68
Other FTE	10
Non-Federal	92
Total	**170**

Planned Accomplishments

The following planned accomplishments are the result of a systematic planning process. The NOAA Coastal Services Center, referred to as CSC within the table, 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 following milestones represent significant work outputs in support of Center and NOAA goals, objectives, and performance measures. (*Note: only NOS performance measures are listed.*) Each milestone lists the corresponding Center project, service and program area, key NOAA partners, and target completion date. Some milestones have more than one program area listed. These milestones are being conducted jointly among different programs within the Center, and the lead program for a given milestone is listed in bold in the program area column. Milestone type denotes the level of reporting. All acronyms can be found in the appendix.

Project Title	Milestone	Service Area	Program Area (Bold = lead)	NOAA Partners (Line Office: *Program Office*)	Milestone Type	Fiscal Quarter
Performance Measure: **Percentage of U.S. coastline with habitats characterized and mapped**						
Topographic Change Mapping	Digital aerial photography and lidar will be acquired and delivered to the University of Connecticut for the mapping of invasive Phragmites australis.	CIS	CRS		CSC	Q2
C-CAP Development	Provide final land cover products on the Web for the Gulf Coast region, including the coastal portions of Texas, Louisiana, Alabama, Mississippi, and the Florida panhandle.	CIS	CRS		NOS	Q3
Characterization of Benthic Habitats within National Estuarine Research Reserves	Final benthic characterization of the Wells NERR.	CIS	**LCR,** CRS		CSC	Q3
C-CAP Development	Award task order for the development of land cover change products that includes the Chesapeake Bay region.	CIS	CRS	OFA, EASC	CSC	Q3
Pacific Islands Geospatial Network	One-hundred percent of U.S. flag Pacific islands coastline and inland areas acquired with current high-resolution satellite imagery.	DO	PSC	NOS: *NMS, OCS, NGS, NCCOS, OR&R;* NMFS: *Regional Office and Science Center*	NOS	Q4
Northwest Florida Greenway Project	Provide digital camera imagery and derived digital surface models to The Nature Conservancy and their partners for the greenway corridor area in Northwest Florida.	CIS	CRS		NOS	Q4
Promote safe navigation and environmental integrity in Hawaii and the Pacific Islands	Hawaii and the Pacific Island constitute 3 percent of the charted coastline.	DO	PSC	NOS: *OCS, NGS*	CSC	Q4
Promote safe navigation and environmental integrity in Hawaii and the Pacific Islands	The Northwestern Hawaiian Island constitute approximate one percent of the charted U.S. Coastline.	DO	PSC	NOS: *OCS, NGS*	CSC	Q4

Project Title	Milestone	Service Area	Program Area (Bold = lead)	NOAA Partners (Line Office: *Program Office*)	Milestone Type	Fiscal Quarter
Characterization of Benthic Habitats within National Estuarine Research Reserves	Final benthic resource assessment of the Chesapeake Bay (VA) NERR.	CIS	**LCR,** CRS		CSC	Q4
Pacific Islands Geospatial Network	100 percent of Guam, American Samoa, and CNMI inland habitats will be mapped and classified using NOAA's C-CAP protocols.	DO	PSC	NOS: *NMS, OCS, NGS, NCCOS, OR&R;* NMFS: *Regional Office and Science Center*	CSC	Q4
Apalachicola Bay Oyster Mapping	Complete first-year data collection for oyster and bathymetry mapping in collaboration with USGS and the Apalachicola NERR.	CIS	**LCR**, CRS		CSC	Q4
Testing the National Classification Standards in the Columbia River Estuary	Final report on testing of classification methodologies for characterizing benthic habitat in the Columbia River Estuary.	CIS	**LCR**, CRS	NMFS: *HC*	CSC	Q4 FY 06
***Performance Measure:* Number of activities conducted to provide a technically trained work force and environmentally informed citizenry**						
Center Training Courses	Deliver 10 technology training courses, three content training courses, and six process training courses to Center clients and NOAA partners.	CMS	**CLS,** Outreach, GIS I&D, CRS, LCR		NOS	Q1
Coastal Hazards Training and Outreach	Co-host the Vulnerability Assessment Techniques IV workshop to assist coastal emergency managers in using data and forecast information in decision making. Partners include the Organization of American States, the Caribbean Development Bank, and Louisiana State University.	CIS	GIS I&D		NOS	Q1
CIS Operations	Draft Logic Model completed for CIS Branch	CIS	CIS Ops		CSC	Q1
CSC Geospatial Activity Coordination	Complete draft NOS remote sensing concept of operations (CONOPS).	CIS	CIS Ops	All NOS offices	CSC	Q1
C-CAP Outreach	Develop a combined Image map product for the Gulf Coast.	CIS	CRS		CSC	Q1
South Carolina Marsh Islands	Conduct project outreach activities related to the marsh islands assessment tool, including presentation slides for meetings and a GIS I&D project Web page.	CIS	GIS I&D		CSC	Q1
MPA Tools and Technical Assistance (TTAI)	Improve access to fisheries data and information through Internet mapping of fisheries resources via the Southeast Geographic Fishery Independent Survey and Historical (SEA GEOFISH) on-line mapping tool.	CIS	GIS I&D	NOS: *OCRM, NMS*	CSC	Q1
Shoreline Data Development and Delivery	Identify data necessary to fill in gaps in state composite shorelines and develop a process for incorporating best available data into shorelines.	CIS	GIS I&D	NOS: *NGS;* NESDIS: *NCDC*	CSC	Q1
GIS Training, Outreach, and Curriculum Development	Inform local high school students about geographic information system (GIS) technology through outreach activities that support both National Geography Week and GIS Day.	CIS	GIS I&D		CSC	Q1

Project Title	Milestone	Service Area	Program Area (Bold = lead)	NOAA Partners (Line Office: *Program Office*)	Milestone Type	Fiscal Quarter
Program Planning and Operations	Develop the CIS branch logic model.	CIS	GIS I&D		CSC	Q1
Fellowships	Select state agency projects for NOAA Coastal Management Fellowship.	CMS	Outreach	NOS: *OCRM* OAR: *Sea Grant*	CSC	Q1
Customer Assessment	Develop final program for the Southern and Caribbean Regional Meeting.	CMS	Outreach	NOS: *OCRM*	CSC	Q1
Coastal Storms Extension and Capacity Building	Establish overall Southern California pilot coordinator position with UC Sea Grant, and hire coordinator.	DO	DO Ops	NOS: *OCS, NCCOS, OCRM, CO-OPS, OR&R;* OAR: *Sea Grant, ETL*; NMFS: *NWFSC;* NWS: *OST, OHD*	CSC	Q1
Maine Coast Protection Initiative	Deliver the training course "Assessing GIS for your Organization" at the National Land Trust Rally.	CIS	**GIS I&D**, Outreach	NOS: *OCRM*	CSC	Q1
Center Training Courses	Deliver seven technology training courses, three content training courses, and four process training courses to Center clients and NOAA partners.	CMS	**CLS,** Outreach GIS I&D, CRS, LCR		NOS	Q2
American Samoa Benthic Terrain Modeler	Deliver the final version of the American Samoa Benthic Terrain Modeler tool to support decision making processes in marine ecosystems.	CIS	GIS I&D		NOS	Q2
Waianae Ecological Characterization	Complete Waianae Ecological Characterization and make available on the Web.	CIS	**LCR**, PSC		NOS	Q2
Center Magazine and Newsletter	Publish three issues of *Coastal Services*, a bimonthly trade publication for coastal resource managers, and three issues of *Coastal Connections*, a how-to guide for the coastal management community.	CMS	Communications		NOS	Q2
Operational Water Quality	Present water quality demonstration results at a national meeting	CIS	CRS		CSC	Q2
Remote Sensing Training	Provide remote sensing seminar at GeoTools '05.	CIS	CRS		CSC	Q2
Coastal Remote Sensing Program Operations	Develop a standard operating plan for the Center's new A&E IDIQ.	CIS	CRS	*O*FA: *EASC*	CSC	Q2
Technical needs assessment with OCRM and the coastal states	Compile information from existing surveys including Coastal States Organization, National States Geographic Information Council, and Coastal Services Center.	CIS	GIS I&D		CSC	Q2
Merging USGS and NOAA Data and Information: A Set of Demonstration Projects along the Georgia Bight	Refine initial project scope to produce detailed pilot project plan.	CIS	GIS I&D	DOI, USGS	CSC	Q2
Support to the National Weather Service	Collaborate with the Federal Emergency Management Agency and the National Weather Service on the development and distribution of outreach materials for the Inland Flood Module of the HURREVAC Model.	CIS	GIS I&D	NWS: *OCWWS*	CSC	Q2

Project Title	Milestone	Service Area	Program Area (**Bold** = lead)	NOAA Partners (Line Office: *Program Office*)	Milestone Type	Fiscal Quarter
Pacific Islands Hazard Assessment Tools	Work with the American Samoa Coastal Management Program and the Pacific Services Center to develop and deliver outreach materials for the Tutuila Hazard Assessment Tool.	CIS	**GIS I&D**, PSC		CSC	Q2
Federal Emergency Management Agency National Hurricane Mitigation and Preparedness Program Support	Develop a Web site to support the distribution of historical Hurricane Evacuation Study documents recently scanned by the Center at the request of the Interagency Coordinating Committee on Hurricanes.	CIS	GIS I&D		CSC	Q2
NOAA Storm Surge Model Assessment and Enhancement	In collaboration with the National Weather Service, Federal Emergency Management Agency, U.S. Army Corps of Engineers, National Emergency Management Association, Coastal States Organization, and the Association of State Floodplain Manager plan and host a workshop to define user needs related to storm surge modeling and forecasting.	CIS	GIS I&D	NOS: *OCS;* NWS: *NCEP, OCWWS, OST*	CSC	Q2
GIS Training, Outreach, and Curriculum Development	Design a recommendation on updating Coastal Applications using ArcGIS course for 9.0 technology.	CIS	GIS I&D	All NOS offices	CSC	Q2
Grants and Cooperative Agreements Program Coordination Management	Receive proposals, conduct review, make recommendations, and complete awards for FY 05 cooperative agreements.	CIS	GIS I&D	OFA: *GMD*; OAR: *OGC*	CSC	Q2
Program Planning and Operations	Assess the career training needs for GIS I&D staff and determine the need for appropriate on-site training.	CIS	GIS I&D		CSC	Q2
CSC Library	Updated Library Web pages.	CIS	LCR		CSC	Q2
National Ocean Economics Project	Development of methods to quantify non-market aspects of the ocean economy.	CIS	**LCR**, DO Ops	NOS: *SPO*	CSC	Q2
Fellowships	Solicit, review, and select NOAA Coastal Management Fellow semi-finalists.	CMS	Outreach	NOS: *OCRM* OAR: *Sea Grant*	CSC	Q2
Smart Growth Network Partnership	Sponsor and attend "2005 New Partners for Smart Growth" conference.	CMS	Outreach	NOS: *OCRM;* OAR: *Sea Grant*	CSC	Q2
Smart Growth Network Partnership	Coordinate and summarize results from CSO-sponsored smart growth focus groups.	CMS	Outreach	NOS: *OCRM;* OAR: *Sea Grant*	CSC	Q2
Smart Growth Network Partnership	Finalize work plan with other NOAA offices and US EPA.	CMS	Outreach	NOS: *OCRM;* OAR: *Sea Grant*	CSC	Q2
Coastal Management Training	Develop training materials for "Understanding MPAs for Managers."	CMS	CMS Ops	NOS: *IPO, OCRM*	CSC	Q2
Interagency training and networking	Hold initial discussions with National Conservation Training Center official to discuss long term cooperative training opportunities.	CMS	CLS	NOS: *OCRM;* OAR: *Sea Grant*	CSC	Q2
Process Design Consultation	Assist with planning of Southeast regional meeting on extension efforts and needs related to ocean and coastal observing systems.	CMS	CLS	NOS: *OCRM;* OAR: *Sea Grant*	CSC	Q2
Web Based Training	Content outlines completed for public trust doctrine and Web content design and evaluation.	CMS	CLS		CSC	Q2

Project Title	Milestone	Service Area	Program Area (Bold = lead)	NOAA Partners (Line Office: *Program Office*)	Milestone Type	Fiscal Quarter
Coastal Storms Extension and Capacity Building	Conduct Southern California Coastal Storms pilot scoping sessions with federal, state, and local officials.	DO	DO Ops	NOS: *OCS, NCCOS, OCRM, CO-OPS, OR&R;* OAR: *Sea Grant, ETL*; NMFS: *NWFSC;* NWS: *OST, OHD*	CSC	Q2
Coastal Zone '05 Conference Support	Continue development and expansion of sponsors for the Coastal Zone conference.	DO	Regional	NOS: *OCRM, OCS, CO-OPS, SPO;* NWS: *OHP*	CSC	Q2
Center Training Courses	Deliver nine technology training courses, three content training courses, and four process training courses to Center clients and NOAA partners.	CMS	**CLS,** Outreach, GIS I&D, CRS, LCR		NOS	Q3
Coastal GeoTools 05 Conference	Successfully plan, implement, and evaluate Coastal GeoTools '05 Conference, to support the understanding of spatial data, tools, and technology in the coastal management community.	CMS	**CIS Ops,** CLS, LCR, CRS, GIS I&D, Comm., Outreach	NOS: *CO-OPS, NGS, OCS, OCRM, OR&R;* OAR: *Sea Grant;* NMFS	NOS	Q3
MPA Stewardship Assistance	Pilot a training on evaluating MPA effectiveness.	CMS	CMS Ops	NOS: *IPO, OCRM;* NMFS: *IRF, OIT, LE, SF, PR, HC, S&T*	CSC	Q3
Ocean Observations	Support and participate in a workshop to identify ocean observation needs for the public health sector.	CIS	**CRS**	OAR: *OGP*	CSC	Q3
Protect and enhance community lifelines and build regional capacity to understand and manage for climate risks.	Summary of PRiMO meeting proceedings including agenda, list of contacts, and outcomes.	DO	PSC		CSC	Q3
Maine Coast Protection Initiative	Plan and develop a technical needs assessment in coordination with Maine Coast Heritage Trust.	CIS	**GIS I&D**, Outreach	NOS: *OCRM*	CSC	Q3
Coastal Storms Program – Risk and Vulnerability Assessment Tools – Pacific Northwest Pilot Project	Work with the Center's Communications Department, Oregon Coastal Management Program, the Oregon Department of Geology and Mineral Industries, and Oregon Sea Grant, the Coastal Storms Program Pacific Northwest Pilot Outreach lead, to develop outreach materials for the near real-time Oregon Coastal Inundation Tool.	CIS	GIS I&D		CSC	Q3
FGDC Support	Complete training modules for the "metadata toolbox."	CIS	GIS I&D	NOS: *NMS, OCS;* OAR: *OGC*	CSC	Q3
GIS Training, Outreach, and Curriculum Development	Develop performance measures for geospatial training courses.	CIS	GIS I&D	All NOS offices	CSC	Q3
Fellowships	Coordinate NOAA Coastal Management Fellowship matching workshop and match fellows with projects	CMS	Outreach	NOS: *OCRM* OAR: *Sea Grant*	CSC	Q3

Project Title	Milestone	Service Area	Program Area (**Bold** = lead)	NOAA Partners (Line Office: *Program Office*)	Milestone Type	Fiscal Quarter
Fellowships	Finalize island NOAA coral management fellowship statements of work.	CMS	Outreach	NOS: *OCRM, OR&R*	CSC	Q3
Customer Assessment	Catalog of needs assessments.	CMS	Outreach		CSC	Q3
Customer Assessment	Administer CMS survey.	CMS	Outreach		CSC	Q3
Visitor Use and Social Assessment Training	Pilot social assessment course at Old Woman Creek National Estuarine Research Reserve.	CMS	Outreach		CSC	Q3
Social Science Applications to Coastal Management Decision making	National Survey on Recreation and the Environment module for coastal managers developed.	CMS	Outreach	NOS: *OCRM, SPO*	CSC	Q3
Web Based Training	Initial draft/test modules for public trust doctrine and Web content design and evaluation.	CMS	CLS		CSC	Q3
Process Skills Training	Needs assessment results for Science to management and leadership project.	CMS	CLS	NOS: *OCRM;* OAR: *Sea Grant*	CSC	Q3
Pacific Islands Training	Conduct an all-hands PSC staff retreat.	DO	PSC	ALL NOS offices	CSC	Q3
California Regional Operations	Coordinate the development and implementation of a Southern California pilot of the Coastal Storms Program as well as continue support for the PNW pilot.	DO	DO Ops	All NOS Offices, OAR: *Sea Grant*	CSC	Q3
Management Information System	Conduct needs assessment and develop RFP for new system development.	DO	**DO Ops**, GIS I&D		CSC	Q3
New Hampshire Regional Operations	Develop detailed strategies and work programs for local implementation that link people, information, and technology; strategies and work programs based on information obtained from needs, requirements, and opportunities analysis .	DO	DO Ops	NOS: *IPO, OCRM, OR&R, NCCOS;* OAR: *Sea Grant;* NMFS: *HC*	CSC	Q3
New Hampshire Regional Operations	Conduct inventory of existing and previous 2-3 years work in the Gulf of Maine region, and identification of FY 2003 and FY 2004 activities.	DO	DO Ops	NOS: *IPO, OCRM, OR&R, NCCOS;* OAR: *Sea Grant;* NMFS: *HC*	CSC	Q3
Coastal Storms Coordination and Operations	Hold yearly planning meetings to support ongoing cross NOAA team coordination efforts.	DO	DO Ops	NOS: *OCS, NCCOS, OCRM, CO-OPS, OR&R;* OAR: *Sea Grant, ETL,* NMFS: *NWFSC;* NWS: *OST, OHD*	CSC	Q3
Center Strategic Assessment	Convene a Blue Ribbon Panel of experts to assist in the Center's strategic assessment.	DO	DO Ops		CSC	Q3
Coastal Zone '05 Conference Support	Participate in the reviews of panels, speakers and field trips for the Coastal Zone conference.	DO	Regional	NOS: *OCRM, OCS, CO-OPS, SPO;* NWS: *OHP*	CSC	Q3

Project Title	Milestone	Service Area	Program Area (**Bold** = lead)	NOAA Partners (Line Office: *Program Office*)	Milestone Type	Fiscal Quarter
Center Training Courses	Deliver seven technology training courses, five content training courses, and four process training courses to Center clients and NOAA partners.	CMS	**CLS,** Outreach, GIS I&D, CRS, LCR		NOS	Q4
GIS Training, Outreach, and Curriculum Development	Develop a new half-day training course that will allow coastal decision makers to better understand how they can implement GIS into their organization to support their understanding of the application of science, technology, and conservation best practices to coastal and ocean ecosystems.	CIS	GIS I&D		NOS	Q4
Fellowships	Seventeen NOAA Coastal Management fellows provide direct technical assistance to state and territory coastal management and coral programs on state/territory high priority topics such as coral reef management and education, shoreline assessment and management, habitat restoration, and land use planning.	CMS	Outreach	NOS: *OCRM;* OAR*:* Sea Grant	NOS	Q4
Customer Assessment	Final results from the Coastal Management Services needs assessment are reported and distributed to states and NOAA offices to meet the needs of the coastal management community.	CMS	Outreach		NOS	Q4
Conference & Event Planning	Successfully plan, implement, and evaluate Coastal Zone 05 conference, to meet the needs of the coastal management community.	CMS	**CLS,** CMS Ops, Comm., Outreach	NOS: *CO-OPS, NGS, OCS, OCRM, OR&R;* OAR: *Sea Grant;* NMFS	NOS	Q4
Center Magazine and Newsletter	Publish three issues of *Coastal Services*, a bimonthly trade publication for coastal resource managers, and three issues of *Coastal Connections*, a how-to guide for the coastal management community.	CMS	Communications		NOS	Q4
Coastal Storms Coordination and Operations	Coordinate planning and execution for Coastal Storms Pacific Northwest and Southern California pilot regions, including holding an annual planning meeting and developing implementation and strategic plans.	DO	DO Ops	NOS: *OCS, NCCOS, OCRM, CO-OPS, OR&R;* OAR: *Sea Grant, ETL*; NMFS: *NWFSC;* NWS: *OST, OHD*	NOS	Q4
Technical Assistance and Products for Process Design and Management	Provide technical assistance and informational products on process design, policy, and management in support of NOAA's weather and water mission focus on saving property and lives.	CMS	**Outreach,** CLS		NOS	Q4
New Hampshire Regional Operations	Develop relationships with NOAA and NOS line offices in the Gulf of Maine region for project development and implementation.	DO	Regional	NOS: *IPO, OCRM, OR&R, NCCOS;* OAR: *Sea Grant;* NMFS: *HC*	CSC	Q4

Project Title	Milestone	Service Area	Program Area (Bold = lead)	NOAA Partners (Line Office: *Program Office*)	Milestone Type	Fiscal Quarter
Shoreline Data Development and Delivery	Participate on the National Shoreline Data Content Standard development team.	CIS	GIS I&D	NOS: *NGS;* NESDIS: *NCDC*	CSC	Q4
Remote Sensing Outreach	Updated "Remote Sensing for Coastal Managers" Web site containing information on additional sensors and how they are used in the coastal zone.	CIS	CRS		CSC	Q4
N-SPECT Development	Offer training for the Nonpoint-Source Pollution and Erosion Comparison Tool (N-SPECT).	CIS	**CRS**, PSC		CSC	Q4
Ocean Planning Information System (OPIS)	Research and track the development of responses to the recommendations laid out by the Pew Commission and the U.S. Commission on Ocean Policy.	CIS	GIS I&D	NOS: *OCRM*	CSC	Q4
Improving Methods for Identifying Priority Sites for Marine Conservation & Management: Integrating Across Environments in the Pacific Northwest	Coordinate with The Nature Conservancy on their methodology for developing prioritized sites for marine conservation along the Oregon and Washington coasts.	CIS	GIS I&D		CSC	Q4
MPA Tools and Technical Assistance (TTAI)	Provide technical assistance (e.g. programming and mapping activities) and coordination activities in support of the National Marine Protected Areas Center goals, objectives, planning, and reporting requirements.	CIS	GIS I&D	NOS: *OCRM, NMS*	CSC	Q4
MPA Tools and Technical Assistance (TTAI)	Conduct outreach activities for the MPA Decision Support System Inventory and the Southeast Geographic Fishery Independent Survey and Historical (SEA GEOFISH) on-line mapping tool.	CIS	GIS I&D	NOS: *OCRM, NMS*	CSC	Q4
Merging USGS and NOAA Data and Information: A Set of Demonstration Projects along the Georgia Bight	Complete initial National Oceanic and Atmospheric Administration - United States Geological Survey (USGS) data merge and prototype Web portal for USGS gages along the Georgia Bight.	CIS	GIS I&D	DOI, USGS	CSC	Q4
Merging USGS and NOAA Data and Information: A Set of Demonstration Projects along the Georgia Bight	Begin bacteria sampling and install turbidity meters at six to eight gage locations.	CIS	GIS I&D	DOI, USGS	CSC	Q4
Coastal Hazards Training and Outreach	Work with FEMA's Higher Education Project to market the Coastal Hazards Management graduate level curriculum, which was developed with joint funding from FEMA and the Center, to various higher education institutions throughout the U.S. and U.S. Territories.	CIS	GIS I&D		CSC	Q4
Coastal Hazards Training and Outreach	Oversee the Center funded work by StormCenter Communications, Inc. entitled: Enhancing the public's understanding about watershed and coastal processes, issues and events in the Gulf Coast.	CIS	GIS I&D		CSC	Q4
Coastal Hazards Training and Outreach	Provide assistance to support the Director's Office participation as the NOAA representative on the White House Subcommittee on Natural Disaster Reduction.	CIS	GIS I&D	OAR, NESDIS, NWS	CSC	Q4

Project Title	Milestone	Service Area	Program Area (**Bold** = lead)	NOAA Partners (Line Office: *Program Office*)	Milestone Type	Fiscal Quarter
Coastal Hazards Training and Outreach	Provide support to the Pacific Services Center in their efforts to plan and host the 3rd Annual Pacific Risk Management Ohana Workshop, including participation on the Decision Support Tools Hui.	CIS	GIS I&D	NWS	CSC	Q4
Coastal Hazards Training and Outreach	Oversee the Center funded National Academy of Sciences study, Planning for Catastrophe: A Blueprint for Improving Geospatial Data, Tools and Infrastructure.	CIS	GIS I&D		CSC	Q4
Coastal Hazards Training and Outreach	In collaboration with the Interagency Coordinating Committee on Hurricanes, plan and host a meeting in the Caribbean territories to foster regional communication, coordination, and collaboration among federal agencies conducting hazard risk management-related work in the Caribbean Islands.	CIS	GIS I&D		CSC	Q4
Support to the National Weather Service	Collaborate with the National Weather Service, Federal Emergency Management Agency, U.S. Army Corps of Engineers, and NOAA Sea Grant to develop an enhanced training module for the HURREVAC Model.	CIS	GIS I&D	OAR: *Sea Grant;* NWS: *OCWWS*	CSC	Q4
Support to the National Weather Service	Collaborate with National Weather Service National Operational Hydrologic Remote Sensing Center to enhance graphical snow products and GIS capability.	CIS	GIS I&D	NWS: *OCWWS*, *NOHRSC*	CSC	Q4
Support to the National Weather Service	Publish technical peer reviewed paper on North Carolina Flood Forecast Mapping Project - Project Overview Modeling/Mapping.	CIS	GIS I&D	NWS: *OCWWS*	CSC	Q4
Support to the National Weather Service	Serve on the National Weather Service (NWS) Digital Services Team to evaluate new digital and graphical forecast products, and participate in focused outreach efforts to ensure the forecast needs of the coastal management community are being met, while meeting the NWS mission of protecting life and property. Pursue coordination and collaboration between NWS Digital Services and NOAA Integrated Ocean Observing Systems (IOOS) to investigate observation data integration for gridded forecast verification.	CIS	GIS I&D	NWS: *OCWWS*	CSC	Q4
Federal Emergency Management Agency National Hurricane Mitigation and Preparedness Program Support	Represent the Center on the Interagency Coordinating Committee on Hurricanes, including participation on several of the Committee's working groups.	CIS	GIS I&D		CSC	Q4
Pacific Islands Hazard Assessment Tools	Work with the Pacific Services Center to build their in-house capability to develop hazard related tools for other Pacific Islands similar to the Tutuila Hazard Assessment Tool.	CIS	**GIS I&D**, PSC		CSC	Q4
GIS I&D Internship Planning and Coordination	Manage the Oregon State University grant titled, "NOAA Fellowships for Education and Research Opportunities in Applying GIS and Remote Sensing in Coastal Resource Management" tracking budgets and project deliverables .	CIS	GIS I&D		CSC	Q4

Project Title	Milestone	Service Area	Program Area (**Bold** = lead)	NOAA Partners (Line Office: *Program Office*)	Milestone Type	Fiscal Quarter
GIS I&D Internship Planning and Coordination	Develop mentoring plans for all GIS I&D program interns.	CIS	GIS I&D		CSC	Q4
Pacific States Marine Fisheries Commission - GIS Curriculum for Current and Future Marine Resource Managers	Review and provide assistance in the development of GIS and metadata curriculum.	CIS	GIS I&D		CSC	Q4
Coastal Storms Program - Southern California Pilot - Coastal Storms Decision Support Tool	Conduct a coastal storms related decision-support tool needs assessment as part of the Coastal Storms Program - Southern California Pilot.	CIS	GIS I&D	NOS: *OCS, CO-OPS;* NWS: *OST, OCWWS*	CSC	Q4
NOAA Storm Surge Model Assessment and Enhancement	Assist the Coast Survey Development Lab in their efforts to lead the planning and execution of a workshop focused on the technical aspects of existing storm surge models and their capabilities to meet user needs.	CIS	GIS I&D	NOS: *OCS;* NWS: *NCEP*	CSC	Q4
Shoreline Data Development and Delivery	Complete and make accessible state composite shorelines through NOS Web sites.	CIS	GIS I&D	NOS: *NGS;* NESDIS: *NCDC*	CSC	Q4
Shoreline Data Development and Delivery	Develop outreach and marketing plan for shoreline data.	CIS	GIS I&D	NOS: *NGS;* NESDIS: *NCDC*	CSC	Q4
FGDC Support	Complete Marine Boundaries Best Practices Handbook.	CIS	GIS I&D	NOS: *NMS, OCS;* OAR: *OGC*	CSC	Q4
FGDC Support	Manage the Oceans and Estuaries Channel of the Geospatial One-Stop Initiative.	CIS	GIS I&D	NOS: *NMS, OCS;* OAR: *OGC*	CSC	Q4
FGDC Support	Maintain CSC metadata clearinghouse node and server.	CIS	GIS I&D	NOS: *NMS, OCS;* OAR: *OGC*	CSC	Q4
FGDC Support	Provide a NOAA-CSC metadata liaison to the USGS Florida Integrated Science Center.	CIS	GIS I&D	NOS: *NMS, OCS;* OAR: *OGC*	CSC	Q4
GIS Training, Outreach, and Curriculum Development	Create tracking database for Center training activities.	CIS	GIS I&D	All NOS offices	CSC	Q4
Center Web Support	Pacific Services Center Web Support.	CIS	**GIS I&D**, Outreach	NWS: *WFO*	CSC	Q4
Center Web Support	CSC Intranet Web Page Support (Shipslog).	CIS	**GIS I&D**, Outreach	NWS: *WFO*	CSC	Q4
Center Web Support	Center Main Page Support.	CIS	**GIS I&D**, Outreach	NWS: *WFO*	CSC	Q4
Center Web Support	Center Program Area Web Support (CMS, RMS, Directors Office).	CIS	**GIS I&D**, Outreach	NWS: *WFO*	CSC	Q4
Center Web Support	Web Support For Center Partners.	CIS	**GIS I&D**, Outreach	NWS: *WFO*	CSC	Q4

Project Title	Milestone	Service Area	Program Area (**Bold** = lead)	NOAA Partners (Line Office: *Program Office*)	Milestone Type	Fiscal Quarter
Software and information technology System Maintenance	Periodically throughout the year, update the Historical Hurricane Tracks Tool to incorporate new data after it becomes available from the National Weather Service's National Hurricane Center.	CIS	GIS I&D		CSC	Q4
Software and information technology System Maintenance	Maintain and update as necessary the Coastal Services Center regression testing lab.	CIS	GIS I&D		CSC	Q4
American Samoa Benthic Terrain Modeler	Support the Pacific Services Center in the recruitment and placement of four new Assistants.	CIS	GIS I&D		CSC	Q4
Lake St. Clair Watershed Characterization	Deliver training program for the ICM Tool to the Great Lakes Commission.	CIS	LCR		CSC	Q4
Seacoast Watershed Information Manager	Prototype Web site reviewed by project partners and stakeholders.	CIS	LCR		CSC	Q4
Seacoast Watershed Information Manager	Conceptual model for assessing impacts of urbanization on water supply, quality, and allocation.	CIS	LCR		CSC	Q4
Restoration Training for Northern California	Hold expert forum for restoration science and techniques for northern California riparian habitats.	CIS	LCR	NMFS: *HC*	CSC	Q4
Restoration Training for Northern California	Complete on-line training module for restoration planning in northern California.	CIS	LCR	NMFS: *HC*	CSC	Q4
Community-based Habitat Restoration	Complete e-learning module on water quality monitoring for SCORE.	CIS	LCR	NMFS: *HC*	CSC	Q4
Community-based Habitat Restoration	Complete e-learning module on salmon life cycles and limiting factors for Russian River.	CIS	LCR	NMFS: *HC*	CSC	Q4
Product Evaluations	Conduct workshop and produce report for evaluation of geographic-based environmental characterizations.	CIS	LCR		CSC	Q4
Product Evaluations	Complete report with plan for evaluation of issue-based environmental characterizations.	CIS	LCR		CSC	Q4
National Ocean Economics Project	Plan for disseminating results of NOEP to federal agencies and other stakeholders.	CIS	**LCR**, DO Ops	NOS: *SPO*	CSC	Q4
Operations	Update and maintain the outreach Web site and the Center's upcoming events page on a quarterly basis as needed.	CMS	Outreach		CSC	Q4
Fellowships	Complete and distribute four quarterly newsletters.	CMS	Outreach	NOS: *OCRM* OAR: *Sea Grant*	CSC	Q4
Fellowships	Select coral fellows.	CMS	Outreach	NOS: *OCRM*	CSC	Q4
Fellowships	Complete and distribute four quarterly NOAA coral management fellowship newsletters.	CMS	Outreach	NOS: *OCRM*	CSC	Q4
Customer Assessment	Development of final program for the Coastal Zone 05 conference.	CMS	Outreach	NOS: *OCRM, OR&R;* OAR: *Sea Grant*	CSC	Q4

Project Title	Milestone	Service Area	Program Area (Bold = lead)	NOAA Partners (Line Office: *Program Office*)	Milestone Type	Fiscal Quarter
Social Science Applications to Coastal Management Decision making	Complete "Dock Growth: Visualizing Alternatives To Balance Competing Interests" Web site.	CMS	Outreach	NOS: *OCRM, NCCOS*	CSC	Q4
Social Science Applications to Coastal Management Decision making	Final technical assistance report and materials on visitor use management contract distributed.	CMS	Outreach		CSC	Q4
Informational Services	Three Dock and Pier Inventories completed, printed, and distributed.	CMS	Outreach	NOS: *OCRM, NCCOS*	CSC	Q4
Informational Services	Draft Invasive species handbook completed.	CMS	Outreach	NOS: *OCRM, NCCOS, SPO;* OAR: *Sea Grant*	CSC	Q4
Informational Services	Draft MPA Coordinating mechanisms product completed.	CMS	Outreach	NOS: *OCRM*	CSC	Q4
Informational Services	Funding and organizational chart Web sites updated quarterly as needed.	CMS	Outreach		CSC	Q4
Informational Services	Social Science Methodologies Web site revised.	CMS	Outreach	NOS: *OCRM*	CSC	Q4
Visitor Use and Social Assessment Training	Final visitor use management handbook delivered to the Center and printed.	CMS	Outreach	NOS: *OCRM*	CSC	Q4
Interagency training and networking	MPA Training and Technical Assistance Providers Network database will be transferred to National MPA Center to be online via the mpa.gov Web site.	CMS	CMS Ops	NOS: *OCRM;* OAR: *Sea Grant*	CSC	Q4
Interagency training and networking	Assist in the planning and development of the Sea Grant Academy	CMS	CLS	NOS: *OCRM;* OAR: *Sea Grant*	CSC	Q4
Interagency training and networking	Continue to serve on Research Reserves Coastal Training Program's steering committee.	CMS	CLS	NOS: *OCRM;* OAR: *Sea Grant*	CSC	Q4
Process Design Consultation	Assist with project design and evaluation planning for two partner projects.	CMS	CLS	NOS: *OCRM;* OAR: *Sea Grant*	CSC	Q4
Process Design Consultation	Four sets of case studies (one set for each of four regions) illustrating practical applications of observing system information to coas tal resource management.	CMS	CLS	NOS: *OCRM;* OAR: *Sea Grant*	CSC	Q4
Process Design Consultation	Assist in the design and facilitation of three partner meetings.	CMS	CLS	NOS: *OCRM;* OAR: *Sea Grant*	CSC	Q4
MPA Coordination	A minimum of five presentations delivered to external audiences on MPA Training and Technical Assistance Institute projects.	CMS	CMS Ops	NOS: IPO, OCRM; NMFS: IRF, OIT, LE, SF, PR, HC, S&T	CSC	Q4
MPA Coordination	Assistance to two MPA Federal Advisory Committee meetings.	CMS	CMS Ops	NOS: *IPO, OCRM;* NMFS: *IRF, OIT, LE, SF, PR, HC, S&T*	CSC	Q4
MPA Coordination	Assistance to National MPA Center headquarters in development of the national system of MPAs, enhancement of MPA stewardship, and regional and national coordination.	CMS	CMS Ops	NOS: *IPO, OCRM;* NMFS: *IRF, OIT, LE, SF, PR, HC, S&T*	CSC	Q4

Project Title	Milestone	Service Area	Program Area (Bold = lead)	NOAA Partners (Line Office: *Program Office*)	Milestone Type	Fiscal Quarter
MPA Stewardship Assistance	Assistance to state- and/or regional-level stakeholder participation processes.	CMS	CMS Ops	IPO, OCRM, IRF, OIT, LE, SF, PR, HC, S&T	CSC	Q4
MPA Stewardship Assistance	Outreach materials presenting the results of recent reports on stakeholder participation and lessons learned from MPA designation processes.	CMS	CMS Ops	IPO, OCRM, IRF, OIT, LE, SF, PR, HC, S&T	CSC	Q4
Web-Based Training	Complete courses on the public trust doctrine and Web content design and evaluation.	CMS	CLS		CSC	Q4
Process skills Training	Course outline and content recommendations for Science to management and leadership course.	CMS	CLS	NOS: *OCRM;* OAR: *Sea Grant*	CSC	Q4
CSC Meeting and Training Logistics	Assist in a minimum of 20 CSC workshops, trainings, and meetings including registrations, provision of AV services, room sets, and food service coordination.	CMS	CLS		CSC	Q4
Partner Meeting Logistics Services	Assist in a minimum of 10 CSC workshops, trainings, and meetings including registrations, provision of AV services, room sets, and food service coordination.	CMS	CLS	NOS: *OCRM*	CSC	Q4
PSC Operations	Initiate NOS Pacific Regional Planning Workshop.	DO	PSC	NOS: *OCS, NGS, OCRM, ORR, NCCOS, NMS*	CSC	Q4
Promote Safe Navigation and Environmental Integrity in Hawaii and the Pacific Islands	Conduct workshops to inform the community about height modernization in Hawaii.	DO	PSC	NOS: *OCS, NGS*	CSC	Q4
Protect and restore coastal and marine natural resources	Workshop to train managers and technical staff how to incorporate ESI map data into decision making.	DO	PSC	NOS: *OR&R, OCS*, NMFS: *PR, RC*	CSC	Q4
Pacific Islands Training	Professional skills-related trainings provided to Pacific Islands coastal and ocean resource management partners.	DO	PSC	ALL NOS offices	CSC	Q4
Pacific Islands Geospatial Network	Provide spatial technology training to island coastal resource managers.	DO	PSC	NOS: *NMS, OCS, NGS, NCCOS, OR&R;* NMFS: *Regional Office and Science Center*	CSC	Q4
PSC Outreach and Education	Complete year-end report on outreach and education activities.	DO	PSC	NOS: *NMS, OR&R, OCRM*	CSC	Q4
Hawaii-Pacific Integrated Ocean Observing System (IOOS) and Pacific Region Data Center (PRIDE)	Summary of IOOS/PRIDE meeting proceedings including agenda, list of contacts, and outcomes.	DO	PSC		CSC	Q4
Pacific Island Assistantship/ Fellowship Programs	Conduct year-one Assistantship review meeting.	DO	PSC		CSC	Q4
California Regional Operations	Support better coordination of NOS and NOAA coastal and ocean programs across California, including identification of areas to improve work with state and local partners and to develop cross office projects as appropriate.	DO	DO Ops	All NOS Offices, OAR: *Sea Grant*	CSC	Q4

Project Title	Milestone	Service Area	Program Area (Bold = lead)	NOAA Partners (Line Office: *Program Office*)	Milestone Type	Fiscal Quarter
California Regional Operations	Provide coordination for coastal ocean observing systems on the west coast by supporting, CSC, NOS, and NOAA activities such as COTS, aiding development of California and west coast regional systems and working on an assessment of user needs and product development. This includes coordination with the state efforts for ocean observing systems.	DO	DO Ops	All NOS Offices, OAR: *Sea Grant*	CSC	Q4
California Regional Operations	Work with the navigation community and other partners in supporting NOAA efforts for the development of a national ports network and for MTS activities, including the connection with the Sea Grant maritime specialist extension agents.	DO	DO Ops	All NOS Offices, OAR: *Sea Grant*	CSC	Q4
Management Information System	Purchase, and begin to install and train personnel on, new MIS system.	DO	**DO Ops**, GIS I&D		CSC	Q4
New Hampshire Regional Operations	Establish network of relationships with Gulf of Maine coastal programs at the federal, state, and local levels and improve connections between these states and NOS programs.	DO	DO Ops	NOS: *IPO, OCRM, OR&R, NCCOS;* OAR: *Sea Grant;* NMFS: *HC*	CSC	Q4
Coastal Storms Coordination and Operations	Provide informational outreach materials in support of the overall Coastal Storms program, including Web site support and development of a Coastal Storms Strategic Plan.	DO	DO Ops	NOS: *OCS, NCCOS, OCRM, CO-OPS, OR&R;* OAR: *Sea Grant, ETL*, NMFS: *NWFSC;* NWS: *OST, OHD*	CSC	Q4
Coastal Storms Coordination and Operations	Conduct monthly coordination and management team meetings.	DO	DO Ops	NOS: *OCS, NCCOS, OCRM, CO-OPS, OR&R;* OAR: *Sea Grant, ETL*; NMFS: *NWFSC;* NWS: *OST, OHD*	CSC	Q4
Coastal Storms Coordination and Operations	Support development of other potential pilot regions and identify expansion of pilot projects to other regions of the country.	DO	DO Ops	NOS: *OCS, NCCOS, OCRM, CO-OPS, OR&R;* OAR: *Sea Grant, ETL*; NMFS: *NWFSC;* NWS: *OST, OHD*	CSC	Q4
Coastal Storms Coordination and Operations	Enhance models to improve storm forecasting and response in Coastal Storms pilot regions, including a hydrodynamic circulation model, a water-level model, and a flood-forecasting model.	DO	DO Ops	NOS: *OCS, CO-OPS*; NWS:*S&T; OHD*	CSC	Q4
Coastal Storms Coordination and Operations	Enhance coastal observations and NWS models to improve forecasting in the Coastal Storms Florida and Pacific Northwest pilot regions. Assess needs and begin development of these enhancements in the Southern California pilot region.	DO	DO Ops	NOS:*CO-OPS*;NWS: *NDBC;S&T*	CSC	Q4

Project Title	Milestone	Service Area	Program Area (Bold = lead)	NOAA Partners (Line Office: *Program Office*)	Milestone Type	Fiscal Quarter
Coastal Storms Extension and Capacity Building	Establish network of extension and educational professionals and conduct state and regional targeted planning and implementation sessions to build capacity and broaden regional benefits.	DO	DO Ops	NOS: *OCS, NCCOS, OCRM, CO-OPS, OR&R;* OAR: *Sea Grant, ETL*; NMFS: *NWFSC;* NWS: *OST, OHD*	CSC	Q4
Coastal Storms Extension and Capacity Building	Pacific Northwest Coastal Storms Pilot leader conducts sessions with federal, state, and local officials in region and improves connection to other NOAA supported and related efforts such as regional ocean observing systems.	DO	DO Ops	NOS: *OCS, NCCOS, OCRM, CO-OPS, OR&R;* OAR: *Sea Grant,ETL*; NMFS: *NWFSC;* NWS: *OST, OHD*	CSC	Q4
Coastal Storms Extension and Capacity Building	Support the ongoing Pacific Northwest pilot coordinator position within Oregon Sea Grant.	DO	DO Ops	NOS: *OCS, NCCOS, OCRM, CO-OPS, OR&R;* OAR: *Sea Grant,ETL*; NMFS: *NWFSC;* NWS: *OST, OHD*	CSC	Q4
Center Strategic Assessment	Complete final draft of Center Strategic Plan for 2006-2010.	DO	DO Ops		CSC	Q4
***Performance Measure:* Cumulative percent of shoreline and inland areas with improved ability to identify extent and severity of coastal hazards**						
Topographic Change Mapping	High-resolution lidar topography data for the beaches of coastal Maine will be available to the public through an on-line distribution mechanism.	CIS	CRS		CSC	Q3
LIDAR Imagery and Distribution - Louisiana	Use coastwide LIDAR imagery to develop coastal parish maps.	DO	Regional	NOS: *NGS*	CSC	Q3
Topographic Change Mapping	High-resolution lidar topography data for the island of Oahu will be available to the public through an on-line distribution mechanism.	CIS	CRS	NOS: *NGS*	CSC	Q4
Topographic Change Mapping	Lidar topography and bathymetry data acquired by the U.S. Army Corps of Engineers and Joint Airborne Lidar Bathymetry Technical Center for Excellence will be made publically available after delivery to the Center.	CIS	CRS		CSC	Q4
LIDAR Imagery and Distribution - Louisiana	Distribute coastal parish LIDAR maps to state and local government.	DO	Regional	NOS: *NGS*	CSC	Q4
***Performance Measure*: Number of environmental technologies and tools developed that enhance monitoring, assessment, management, and restoration of coastal habitats**						
American Samoa Benthic Terrain Modeler	Finalize and deliver the American Samoa coastal and marine bibliographic database to project partners.	CIS	GIS I&D		CSC	Q1
Brown Marsh Monitoring	Participate in Project Review meeting with Louisiana Department of Natural Resources project management.	DO	Regional		CSC	Q1

Project Title	Milestone	Service Area	Program Area (**Bold** = lead)	NOAA Partners (Line Office: *Program Office*)	Milestone Type	Fiscal Quarter
LCR Operations	Agreement with NWFSC for CSC funding of habitat restoration research in the Pacific Northwest.	CIS	**LCR**, DO Ops	NOS: *OCRM;* NESDIS: *NCDC;* NMFS: *HC, NWFSC*	CSC	Q1
N-SPECT Development	Publicly distribute the Nonpoint-Source Pollution and Erosion Comparison Tool (N-SPECT).	CIS	**CRS**, LCR, GIS I&D		NOS	Q2
Support to the Southern California Wetland Recovery Project	Deliver SCREAM ready for calibration and verification.	CIS	**LCR**, GIS I&D		CSC	Q2
Coastal Ocean Observation	Document the non-federal contribution to COTS fiscal year 2004 projects.	DO	DO Ops		CSC	Q2
Coastal Ocean Observation	In cooperation with the National Data Buoy Center, Center for Operational Oceanographic Products and Services, and the Coastal Observation Technology System (COTS) award recipients, develop an "enterprise data process" that provides a framework for channeling data streams from COTS through NOAA data quality control and distribution processes.	DO	**DO Ops**, GIS I&D, CRS	NOS: *CO-OPS;* NESDIS*;* NWS: *NDBC*	CSC	Q2
Coastal Ocean Observation	Submit all FY05 COTS congressionally directed award applications to Grants Management Division.	DO	DO Ops		CSC	Q3
Restoration Training for Northern California	Complete Web site on ecological restoration techniques and resources for northern California.	CIS	LCR	NMFS: *HC*	CSC	Q3
Coastal Ocean Observation	If appropriate, based on amount of ocean observing funds to the Center and other priorities, conduct a competitive selection process for IOOS pilot projects and submit award applications to GMD.	DO	**DO Ops**, CRS	NOS: *CO-OPS, OCS;* NWS: *NDBC*	CSC	Q3
Coastal Ocean Observation	Update and continue interagency agreements to provide senior personnel at Ocean.US to lead the planning and implementation of the Integrated Ocean Observing System.	DO	DO Ops	NOS: *AA*	CSC	Q3
Coastal Ocean Observation	Enhance and maintain the Coastal Ocean Observing System Web site to include recently deployed observational assets, enhanced presentation and GIS materials, and provide for more distributed update capability.	DO	**DO Ops**, GIS I&D	NOS: *CO-OPS;* NWS: *NDBC*	CSC	Q3
Coastal Ocean Observation	Provide initial sector-based requirements information for NOS IOOS contributions.	DO	DO Ops	NOS	CSC	Q3
Characterization of a West coast watershed or special management area	Grant awarded for characterization of a watershed or special management area on the West coast, Alaska, or Hawaii.	CIS	LCR		CSC	Q3
Ocean Observations	Report to Ocean.US the findings and recommendations from the development of the prototype National Portal and the testing of different data transport protocols.	CIS	**CRS**, GIS I&D	NESDIS: *ORA;* OAR: *OGP*	NOS	Q4

Project Title	Milestone	Service Area	Program Area (**Bold** = lead)	NOAA Partners (Line Office: *Program Office*)	Milestone Type	Fiscal Quarter
Chesapeake Bay Decision Support System	Release a Web-enabled decision-support system for oyster larvae dispersal tracking to aid management decisions on the potential introduction of Asian oysters into Chesapeake Bay.	CIS	**CRS,** GIS I&D, CLS, DO Ops	NOS: *CO-OPS, OCS, OCRM, OR&R*	NOS	Q4
Maine Coast Protection Initiative	In support of balanced coastal planning and in partnership with diverse partners, develop two or more GIS resource centers to further the use of a GIS-based coast-wide conservation framework for Maine.	CIS	**GIS I&D**, Outreach	NOS: *OCRM*	NOS	Q4
Lake St. Clair Watershed Characterization	Deliver Integrated Coastal Management tool to the Great Lakes Commission for examining habitat fragmentation in the Great Lakes, to assist in setting habitat conservation and restoration priorities.	CIS	**LCR**, GIS I&D		NOS	Q4
Apalachicola Regional Resources on the Web (ARROW)	Complete characterization of the Apalachicola River Basin and the effects of growth on the basin's habitats.	CIS	LCR		NOS	Q4
Regional Associations	Work with Ocean.US on development of the Regional Associations, an “enterprise data process” and a report on regional market and policy drivers of the U.S. Global Ocean Observing System .	DO	DO Ops	NOS: *AA*, NESDIS: *ORA*; NWS: *NDBC*; OAR: *Sea Grant*	NOS	Q4
Coastal Ocean Observation	Plan, establish partnerships, and initiate a pilot project in the Gulf of Mexico that demonstrates utility of coastal ocean data and promotes the National Ocean Service as the Global Leader in Integrated Management of the Oceans.	CIS	**GIS I&D,** DO Ops, CMS	NOS: *CO-OPS, OCS, NGS, SP;* NWS: *OCWWS, OS&T, OHD, NCEP*	NOS	Q4
Chesapeake Bay Decision Support System	New in-situ monitoring systems will be in place within Chesapeake Bay with data available to the public.	CIS	**CRS,** GIS I&D, CLS, DO Ops	NOS: *CO-OPS, OCS, OCRM, OR&R*	CSC	Q4
Next-Generation C-CAP Prototype	A report summarizing and comparing the different high resolution land cover mapping methodologies presented by the contractors.	CIS	CRS		CSC	Q4
Port of Tampa SIMmetry	Completed SIMmetry technical demonstration product for the Port of Tampa available on line.	CIS	CRS		CSC	Q4
Implementing a Centralized Spatial Data Management, Stewardship, and Dissemination Project for California Anadromous Fisheries: CalFish	Work with partner to develop Internet based data visualization and analysis tools for California Anadromous Fisheries (CalFish) data.	CIS	GIS I&D	Listed as partner by grantee	CSC	Q4
Seabird Ecological Assess-ment Network Mapping Application (SEANET MAP): Distributed Internet Mapping for Marine Ecosystem Health	Work with partner to develop Internet based data visualization and analysis tools for SEANET MAP data.	CIS	GIS I&D		CSC	Q4
Integrated Ocean Observing Systems Support	Grant awarded for integrating one or more IOOS regional associations with appropriate NERR sites.	CIS	**LCR**, DO Ops	NOS: *OCRM*	CSC	Q4

Project Title	Milestone	Service Area	Program Area (**Bold** = lead)	NOAA Partners (Line Office: *Program Office*)	Milestone Type	Fiscal Quarter
Coastal Ocean Observation	Have data from COTS partners flowing through NOAA enterprise data processes.	DO	**DO Ops**, GIS I&D	NOS: *CO-OPS;* NWS: *NDBC*	CSC	Q4
Coastal Ocean Observation	Administer existing fiscal year 2004 COTS Awards to monitor performance and facilitate administrative and programmatic changes to awards as required. Monitor existing grants and contracts awarded to provide information on the US ocean economy and the regional economic and policy drivers for guiding design of the Integrated Ocean Observing System.	DO	**DO Ops**, CRS, CMS	NOS: *CO-OPS, OCS;* NESDIS: *NCDC;* NWS: *NDBC*	CSC	Q4
Coastal Ocean Observation	Provide information and reviews as requested to support development of the IOOS Implementation Plan, the development of the National Federation of Regional Observing Systems, and other activities under the guidance of Ocean.US.	DO	**DO Ops**, CMS	NOS: *AA;* NWS: *NDBC*	CSC	Q4
Coastal Ocean Observation	Provide information on an as needed basis to leadership of CSC, NOS, NOAA, and Ocean.US to assist in planning, reporting, and communication requirements (ongoing).	DO	DO Ops	NOS: *CO-OPS, OCS, OCRM, NCCOS, AA;* OAR*;* NESDIS*;* NWS: *NDBC*	CSC	Q4
Coastal Ocean Observation	Assist in planning, organization, and implementation of the Integrated Ocean Observing System through planning teams, advisory boards, and other formal and informal venues (ongoing).	DO	DO Ops	NOS: *CO-OPS, OCS, OCRM, NCCOS;* OAR: *NURP, Sea Grant;* NESDIS: *NCDC;* NWS: *NDBC*	CSC	Q4
Coastal Ocean Observation	Administer existing fiscal year 2004 regional coordination project awards to monitor performance and facilitate administrative and programmatic changes to awards as required.	DO	**DO Ops**, CMS		CSC	Q4
Coastal Ocean Observation	Conduct a competitive selection process for regional coordination projects submitted in response to Broad Area Announcement and submit award applications to GMD.	DO	**DO Ops**, CMS		CSC	Q4
Coastal Ocean Observation	Administer existing fiscal year 2004 pilot project awards to monitor performance and facilitate administrative and programmatic changes to awards as required.	DO	**DO Ops**, CRS		CSC	Q4
Coastal Ocean Observation	Develop, test and promote standards, protocols, and procedures that facilitate efficient transfer, integration, storage, retrieval, ingestion, and display of IOOS data in cooperation with the Data Management and Communication Subcommittee, COTS partners and other interested parties.	CIS	**CRS**, DO Ops, GIS I&D	NOS: *CO-OPS, OCS;* NESDIS*;* NWS: *NDBC*	CSC	Q4
Coastal Ocean Observation	Provide a report documenting the value of weather and ocean information in the U.S. healthcare industry.	DO	DO Ops	OAR	CSC	Q4
Coastal Ocean Observation	Deliver final report for contract supporting "Regional Market and Policy Drivers for Design of the U.S. Coastal Ocean Observing System."	DO	DO Ops		CSC	Q4

Project Title	Milestone	Service Area	Program Area (Bold = lead)	NOAA Partners (Line Office: *Program Office*)	Milestone Type	Fiscal Quarter
Brown Marsh Monitoring	Review and report to NOAA CSC and GMD on progress of grant funded efforts and progress reports from Louisiana Department of Natural Resources.	DO	Regional		CSC	Q4
CELP, CIAP and Local Coastal Project Coordination	Educate coastal communities on available NOAA funding for coastal projects.	DO	Regional	NOS: *OCRM*	CSC	Q4
CELP, CIAP and Local Coastal Project Coordination	Coordinate and participate in the implementation of a number of NOAA funded coastal projects along the Gulf Coast.	DO	Regional	NOS: *OCRM*	CSC	Q4
Coastal and Marine Environmental, Recreational Boater Groups Community Collaboration	Provide NOAA charting and technical resources and expertise to enable coastal organizations to support coastal projects and efforts.	DO	Regional	NOS: *OCS*	CSC	Q4
Coastal and Marine Environmental, Recreational Boater Groups Community Collaboration	Provide expertise to assist in coordination of coastal data, observations, and documentation from recreational boating and environmental groups for charting updates.	DO	Regional	NOS: *OCS*	CSC	Q4
Pacific Island Assistantship/ Fellowship Programs	Support further understanding and utilization of NSPECT in Hawaii.	DO	PSC		CSC	Q4
Performance Measure: **Number of improved information management tools developed to assist coastal hazard mitigation**						
Pacific Islands Hazard Assessment Tools	Provide technical assistance to the Pacific Services Center during the software development planning process for the expansion of the Tutuila Hazard Assessment Tool model to the Island of Kauai.	CIS	**GIS I&D**, PSC		CSC	Q2
Federal Emergency Management Agency National Hurricane Mitigation and Preparedness Program Support	Expand the Inland Flood Module of the HURREVAC model to all hurricane-prone coastal states from Texas to Maine and the U.S. Territories of Puerto Rico and the U.S. Virgin Islands.	CIS	**GIS I&D,** DO Ops	NWS: *OCWWS*	CSC	Q3
Support to the National Weather Service	Expanding the historical hurricane track tool with simplified user/data interaction tools.	CIS	GIS I&D	NWS: *NCEP*, *NHC*	CSC	Q3
Software and IT System Maintenance	Develop an ArcGIS extension that automates the task of processing and updating the Atlantic and Eastern North Pacific tropical cyclone tracks data for the Historical Hurricane Tracks Tool.	CIS	GIS I&D		CSC	Q3
Coastal Storms Program – Risk and Vulnerability Assessment Tools – Pacific Northwest Pilot Project	In partnership with the Oregon Coastal Management Program and the Oregon Department of Geology and Mineral Industries, expand the near-real-time Netarts Littoral Cell Coastal Inundation Tool to other feasible areas of the Oregon coast.	CIS	**GIS I&D,** DO Ops	NOS: *CO-OPS;* NWS: *NDBC*	CSC	Q4

Project Title	Milestone	Service Area	Program Area (Bold = lead)	NOAA Partners (Line Office: *Program Office*)	Milestone Type	Fiscal Quarter
Support to the National Weather Service	Continue to develop and provide graphical flood impact maps (E-19) in collaboration with National Weather Service hydrologists and focal points on a pilot basis, including collaborating with the Federal Emergency Management Agency map modernization program on coordinating mapping locations and risk conveyance products .	CIS	GIS I&D	NWS: *OCWWS*	CSC	Q4
Federal Emergency Management Agency National Hurricane Mitigation and Preparedness Program Support	Work with the Federal Emergency Management Agency (FEMA) on a pilot project in a local community to develop a concept for FEMA's new Comprehensive Hurricane Preparedness Study, an expansion and enhancement of the existing Hurricane Evacuation Study.	CIS	GIS I&D	NWS: *OCWWS*	CSC	Q4
Federal Emergency Management Agency National Hurricane Mitigation and Preparedness Program Support	Work with the Federal Emergency Management Agency to expand the functionality of the Inland Flood Module of the HURREVAC model by including floodplain map products.	CIS	GIS I&D	NWS: *OCWWS*	CSC	Q4
Federal Emergency Management Agency National Hurricane Mitigation and Preparedness Program Support	Update the Hurricane Evacuation Information Tool to include additional states when data becomes available.	CIS	GIS I&D	NWS: *OCWWS*	CSC	Q4
NOAA Storm Surge Model Assessment and Enhancement	Collaborate with the National Weather Service, National Centers for Environmental Prediction and the Coast Survey Development Lab in the development of a HYCOM-based dynamic storm surge modeling capability.	CIS	GIS I&D	NOS: *OCS;* NWS: *NCEP, OCWWS, OST*	CSC	Q4
New York Historic Shoreline Data Distribution System	In partnership with New York Sea Grant and the Atlantic Coast of New York Erosion Monitoring Program, develop an Internet-based geographic information system data distribution system for historic shoreline data and erosion information for the State of New York.	CIS	GIS I&D		CSC	Q4
Protect and enhance community lifelines and build regional capacity to understand and manage for climate risks.	Quarterly reports detailing the status of climate and natural hazard risk management-related decision-support tools development.	DO	PSC		CSC	Q4
***Performance Measure*: Number of U.S. coastal regions with systems to forecast or to reduce the impacts of Harmful Algal Blooms**						
Algal Bloom and Water Quality Decision Support	Components of the Gulf of Mexico Harmful Algal Bloom Bulletin processes developed and tested at the Coastal Services Center are transferred to operational status at the Center for Operational and Oceanographic Products and Services.	CIS	CRS	NOS: *CO-OPS, OR&R, NCCOS;* NESDIS: *NODC, ORA;* NMFS: *NWFSC*	NOS	Q1

Project Title	Milestone	Service Area	Program Area (Bold = lead)	NOAA Partners (Line Office: *Program Office)*	Milestone Type	Fiscal Quarter
Algal Bloom and Water Quality Decision Support	Project plan developed to implement a product useful for HAB detection in the Pacific Northwest.	CIS	CRS	NOS: *CO-OPS, OR&R, NCCOS;* NESDIS: *NODC, ORA;* NMFS: *NWFSC*	CSC	Q4
Algal Bloom and Water Quality Decision Support	Meeting of all offices involved in the HAB Forecast System for status and annual planning.	CIS	CRS	NOS: *CO-OPS, OR&R, NCCOS;* NESDIS: *NODC, ORA;* NMFS: *NWFSC*	CSC	Q4

Appendix – Acronyms

AA	Assistant Administrator
A&E IDIQ	Architect–Engineering Indefinite Delivery/Indefinite Quantity
ACT	Alliance for Coastal Technologies
AOP	Annual Operating Plan
ARROW	Apalachicola Regional Resources on the Web
AV	Audio-Visual
BAA	Broad Area Announcement
BTM	Benthic Terrain Modeler
B-WET	Bay Watershed Education and Training
CAMS	Commerce Accounting Management System
C-CAP	Coastal Change Analysis Program
CELP	Coastal and Estuarine Land Conservation Program
CIAP	Coastal Impact Assistance Program
CIS	Coastal Information Services
CLS	Coastal Learning Services
CMS	Coastal Management Services
CNMI	Commonwealth of the Northern Mariana Islands
CONOPS	concept of operations
CO-OPS	Center for Operational Oceanographic Products and Services
CORS	Continuously Operating Reference Station
COTS	Coastal Observation Technology System
CRS	Coastal Remote Sensing
CSC	Coastal Services Center
CZIC	Coastal Zone Information Center
CZMA	Coastal Zone Management Act
DO	Director's Office
DOC	Department of Commerce
DOI	Department of the Interior
EASC	Eastern Administrative Support Center
EPA	Environmental Protection Agency
ESI	Environmental Sensitivity Index
ESRI	Environmental Systems Research Institute
ETL	Environmental Technology Laboratory
FEMA	Federal Emergency Management Agency
FGDC	Federal Geographic Data Committee
FLETC	Federal Law Enforcement Training Center
FTE	Full-Time Equivalent

FY	Fiscal Year
GIS	Geographic Information System
GIS I&D	Geographic Information System Integration and Development
GMD	Grants Management Division
HAB	Harmful Algal Bloom
HC	Habitat Conservation
HURREVAC	Hurricane Evacuation software
HYCOM	Hybrid Coordinate Ocean Model
ICM	Integrated Coastal Management
IOOS	Integrated Ocean Observing System
IPO	International Program Office
IRF	Intergovernmental and Recreational Fisheries
IT	Information Technology
LCR	Landscape Characterization and Restoration
LE	Law Enforcement
LIDAR	Light Detection and Ranging
MIS	Management Information System
MPA	Marine Protected Area
MTS	Marine Technology Society
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
NERR	National Estuarine Research Reserve
NESDIS	National Environmental Satellite, Data, and Information Service
NGS	National Geodetic Survey
NMFS	National Marine Fisheries Service
NMS	National Marine Sanctuaries
NOAA	National Oceanic and Atmospheric Administration
NOEP	National Ocean Economics Project
NOHRSC	National Operational Hydrologic Remote Sensing Center
NOS	National Ocean Service
NSDI	National Spatial Data Infrastructure
NSGIC	National States Geographic Information Council
N-SPECT	Nonpoint Source Pollution and Erosion Comparison Tool
NWFSC	Northwest Fisheries Science Center
NWS	National Weather Service
OAR	Office of Oceanic and Atmospheric Research

OCRM	Office of Ocean and Coastal Resource Management
OCS	Office of Coast Survey
OCWWS	Office of Climate, Weather, and Water Services
OFA	Office of Finance and Administration
OGC	Office of the General Counsel
OGP	Office of Global Programs
OHD	Office of Hydrologic Development
OIT	Office of Industry and Trade
OPIS	Ocean Planning Information System
Ops	Operations
ORA	Office of Research and Applications
ORR	Office of Response and Restoration
OST	Office of Science and Technology
PNW	Pacific Northwest
PRiMO	Pacific Risk Management `Ohana
PRIDE	Pacific Region Integrated Data Center for Environmental Ocean, Climate, and Ecosystem Information and Services
PR	Protected Resources
PSC	Pacific Services Center
RFP	Request for Proposals
RMS	Resource Management Services
SCORE	South Carolina Oyster Restoration and Enhancement
SCREAM	Southern California Riparian Ecosystem Assessment Model
SEA GEOFISH	Southeast Geographic Fishery-Independent Survey and Historical Database
SEANET MAP	Seabird Ecological Assessment Network Mapping Application
SF	Sustainable Fisheries
SPO	Special Projects Office
S&T	Science and Technology
TTAI	Training and Technical Assistance Institute
USDA	U.S. Department of Agriculture
USGS	U.S. Geological Survey
WFO	Weather Forecast Office
WWW	World Wide Web