

NOAA Coastal Services Center Annual Operating Plan – 2010

Linking People, Information, and Technology

The National Oceanic and Atmospheric Administration (NOAA) is a world leader in coastal science and management. NOAA's Coastal Services Center, which was created in 1994, provides the up-to-date technology, information, and management strategies needed by state and local coastal resource management programs.

NOAA is part of the U.S. Department of Commerce. The Center is housed within NOAA's National Ocean Service and has offices and staff members throughout the coastal zone. The first part of this document provides an overview of the organization, while the second half focuses on specific activities to be undertaken in 2010 to further organizational goals.

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NOAA COASTAL SERVICES CENTER OVERVIEW

Mission. To support the environmental, social, and economic well-being of the coast by linking people, information, and technology.

Vision. Coastal communities becoming more resilient through informed decision making.

Operating Principles and Core Values. The Center's operating principles and core values are guiding forces in the organization, both as a philosophy and as a business practice. The goal is to "do government business better," which is accomplished in the following ways:

- Focusing on customers, quality, and results
- Being a catalyst for innovation and change
- Building effective partnerships across NOAA and beyond government
- Being national in scope but local in approach

Customers. State and local programs are at the forefront of efforts to preserve coastal resources, promote responsible development, and build community resilience. Primary customers for Center products and services include the following:

- Coastal planners
- Natural resource agencies
- Regulatory agencies
- Emergency management officials

- Floodplain managers
- Conservation organizations
- Member organizations (such as the Coastal States Organization and the National Association of Counties)
- Regional ocean governance organizations

Partnerships. “The sum is greater than its parts.” This axiom represents the philosophy behind the Center’s partnership efforts. Bringing together different groups to work toward a common cause is an approach that flows through most Center projects. Partners often provide the additional expertise, data, funding, and credibility needed to make a good effort stellar. Partners come from many sectors: NOAA offices; local, state, and federal governments; non-profits; private companies; and the academic community. The following partnerships are key:

- Regional Ocean Governance Initiatives: Regional ocean governance, merely a concept in the recent past, now represents a critical mechanism for directly engaging with federal, state, and other partners on a regional scale to identify and address priority coastal resource management issues.
- Digital Coast Partnership: The Digital Coast is an enabling delivery mechanism for an integrated suite of data, tools, training, and information for coastal managers. The Digital Coast Partnership group currently includes the Association of State Floodplain Managers, the Coastal States Organization, the National Association of Counties, the National States Geographic Information Council, and The Nature Conservancy. These partners provide constituent input in terms of identifying and refining Digital Coast products, and they provide the real-world uses of geospatial data and tools.
- Internal NOAA Offices: The Center works with programs within NOAA that share the customer base to ensure effective product and service design and delivery and avoid duplication of effort. In addition, the Center works with other programs to set internal NOAA policy and strategic direction on priority issues (e.g., coastal management, resilience, inundation, and climate).
- Other Federal Agencies: At both national and regional scales, it is necessary to work with sister federal agencies with common priorities and complementary missions or capabilities (e.g., mapping, coastal and marine spatial planning, and climate change). As with the internal NOAA coordination, this ensures effective products and services and avoids duplicated effort.
- Private Sector: The private sector is a valued partner, one that is involved in nearly every aspect of the organization. Nearly half of the workforce is provided by a private sector company, and the Center often works with the private sector to gain access to additional data, training, social science, tool development, and other resources.

EXPERTISE AND PRODUCTS. The center’s strategic focus is advanced by maintaining expertise and being innovation in the following areas:

- Geospatial technologies, such as geographic information systems (GIS) and remote sensing)
- Training
- Social science
- Collaborative processes

- Communication

Growth areas for the time period covered in this report include the following:

- Finding new ways to deliver training
- Making data easier to understand (particularly through visualization tools) and therefore more useful
- Improving data acquisition and delivery via new delivery mechanisms such as the Digital Coast
- Finding ways to help constituents address risk-communication needs

The Center will continue to use partnership networks as a means of effectively reaching out to a larger customer base and honing Center products to best meet user needs. Center support to coastal management organizations usually comes in one or more of the following forms:

- Partnership Building: Collaboration and partnership building is a proven method to enhance effectiveness and accomplish goals.
- Data: The Center works with its constituents to determine the priority data requirements, seeking partnerships to leverage resources and expertise for data acquisition and then making the data easily accessible.
- Tools: While getting the right data is necessary, constituents often need tools to turn these data into information that is used. The Center understands the intersection of data, coastal management issues, and technology. Putting these three bases of knowledge together results in a suite of helpful tools building the Digital Coast.
- Training: The Center's training curriculum is focused on keeping coastal managers and decision-makers at the top of their games. The curriculum addresses technology, process skills, and coastal issues.
- Technical Assistance: Organizations can't house all the expertise needed for every task. The Center offers a suite of technical assistance services designed to meet a variety of needs.
- Publications and How-to Guides: The Center provides publications and websites that relay information about viable options and approaches for a variety of coastal management issues.

INNOVATION

An organization striving to be innovative must position itself to encourage innovation, both in its operations and in its expectations. Because Center operations are focused on customer needs, by definition the Center must stay nimble and able to quickly retool as customer and national needs change and as the coastal management community grows in their approach to coastal management issues. This approach, along with the strategies listed below, will be encouraged as a means of keeping the Center innovative now and in the future.

- Technology: It is important to understand where technology is going and how technology can best be used to further coastal resource management. The Center works closely with several technology firms to not only gain a better understanding of current technology

and future advances, but also to represent audience needs in the private-sector data and technology development process.

- Professional Development: Keeping the staff members abreast of developments in their fields is important, which is why the organization stresses several means of professional development. These include conference attendance, certifications, training, self-directed reading, and on-line courses. The Center must also be strategic when hiring new people and writing the contractor statement of work each year, as the skills that are required one year do not automatically transfer to the next.
- Social Science: Coastal managers have always appreciated the “people side” of coastal resource management, but it is only recently that social science has emerged as an accepted way to approach management issues. The Center will focus on new ways to apply this science to constituent issues, including decision-support tools that integrate socio-economic data and social science training, as well as convening diverse stakeholder groups to develop new, coordinated solutions to emerging coastal management issues.
- New Partners: Bringing new and oftentimes unexpected partners together to address coastal issues brings about powerful results. In addition to the core constituents, the Center will also reach out to new federal agencies and continue efforts to work with the Chamber of Commerce, non-profits, public works organizations, foundations, and other organizations when collaboration would be considered beneficial from a coastal management standpoint.
- Training: The Center will explore new and effective ways to bring more training opportunities to a larger, broader audience. The course curriculum will address technology, process skills, and issue needs of the coastal management community. Delivery mechanisms include e-learning approaches using the latest technology and the development of a consortium of networked trainers.
- Regional Approach: Staying close to the customer and being able to deliver all that NOAA has to offer is an important part of the regional approach to delivering products and services from the NOAA Coastal Services Center. This is the number-one growth area anticipated for the organization, as it is important to find new ways to better understand the customer and effectively deliver needed products and services from all of NOAA.

EVALUATION AND FEEDBACK

Soliciting and incorporating feedback for continuous improvement is what makes a good organization great. The Center is committed to engaging in regular dialog and trusted relationships to assess not only products and services, but the operation as a whole. Surveys, evaluations, literature reviews, interviews, Web statistics, performance measures, and one-on-one customer feedback are the means used to assess customer needs and how well Center efforts address those needs.

PRODUCT FOCUS FOR FY 2010

Adapting to the Impacts of Coastal Hazards and Climate Change

Increasing development and population numbers, combined with climate change predictions, means the coastal zone is at risk. The Center is committed to strengthening the resilience of coastal communities by helping them adapt to climate change and natural disasters.

Through the work of the Center and its partners, communities will gain the following benefits:

- Understand the impacts of coastal hazards and climate variability and change
- Take the steps necessary to build their capacity to plan for, respond to, and adapt to the impacts of climate change
- Improve community resilience to coastal hazards

Specifically, the Center's work focuses on three areas:

- Helping our customers better understand, communicate, and plan for impacts of **coastal inundation**
- Helping our customers pursue **risk-wise strategies** based on sound risk and vulnerability assessment methods and risk behavior and communication principles
- Helping our customers **protect ecosystem services through conservation** strategies to improve climate adaptation and hazard resilience

By focusing on the following products and services, the Center helps coastal constituents understand their exposure to current coastal hazard threats such as storm surge, tsunami, inland flooding, and increased frequency and severity of storms, and the Center helps them to improve the resilience of their communities:

- Geospatial and social data and tools
- Mapping and visualization
- Training
- Strategies for assessing and communicating uncertainty
- Stakeholder engagement
- Peer-to-peer information exchange

Key Projects, Products, and Services:

- Development of a functional prototype of the NOAA Climate Services Portal
- Delivery of the Digital Coast's Coastal Inundation Toolkit
- Release of the Southeast and Caribbean Region Team (SECART) Data Explorer v.1 with a focus on climate change adaptation and resilience to weather and climate hazards
- Development and delivery of coastal climate adaptation training

Competing Uses of Coastal Resources

With population growth in coastal areas, the demands on our ocean and coastal ecosystems continue to expand, resulting in increased competition for resources relating to public access and recreational use, private development, commercial activities, and other economic and social uses. As this dynamic occurs, it is important to balance increasing development pressures with

ecosystem health and conservation while also meeting social and economic objectives. Managers at all levels are actively working to allocate space on land and in the ocean to balance the environmental, economic, and social needs of communities.

Through the work of the Center and its partners, communities will advance the following aims:

- Make land- and ocean-use decisions that consider short- and long-term implications for healthy coastal and ocean environments, through an enhanced understanding of ecosystem-based management and effective planning strategies
- Make land- and ocean-use decisions that consider environmental, economic, and social objectives by engaging multiple sectors to approach coastal and ocean problems

The Center helps coastal constituents achieve the proper balance of needs by providing these products and services:

- Data access and visualization tools
- Decision support tools
- Technical and process training and technical assistance in effective planning
- Stakeholder engagement in planning efforts
- Coordinated mapping efforts

Specifically the Center's work in this area focuses on land use planning, including the incorporation of Smart Growth strategies, and coastal and marine spatial planning.

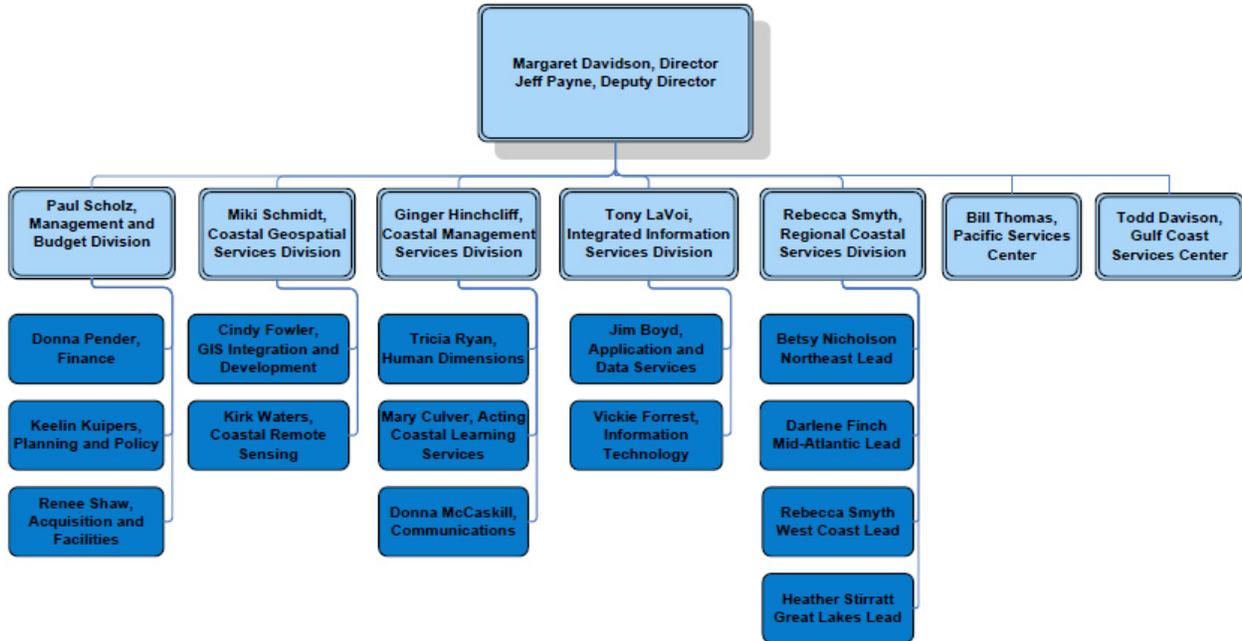
Key Projects, Products, and Services

- Launch of the One-NOAA Marine Spatial Planning Website
- Release of the Multipurpose Marine Cadastre v.2
- Publication of Marine Spatial Planning stakeholder analysis

Organizational Structure

NOAA Coastal Services Center

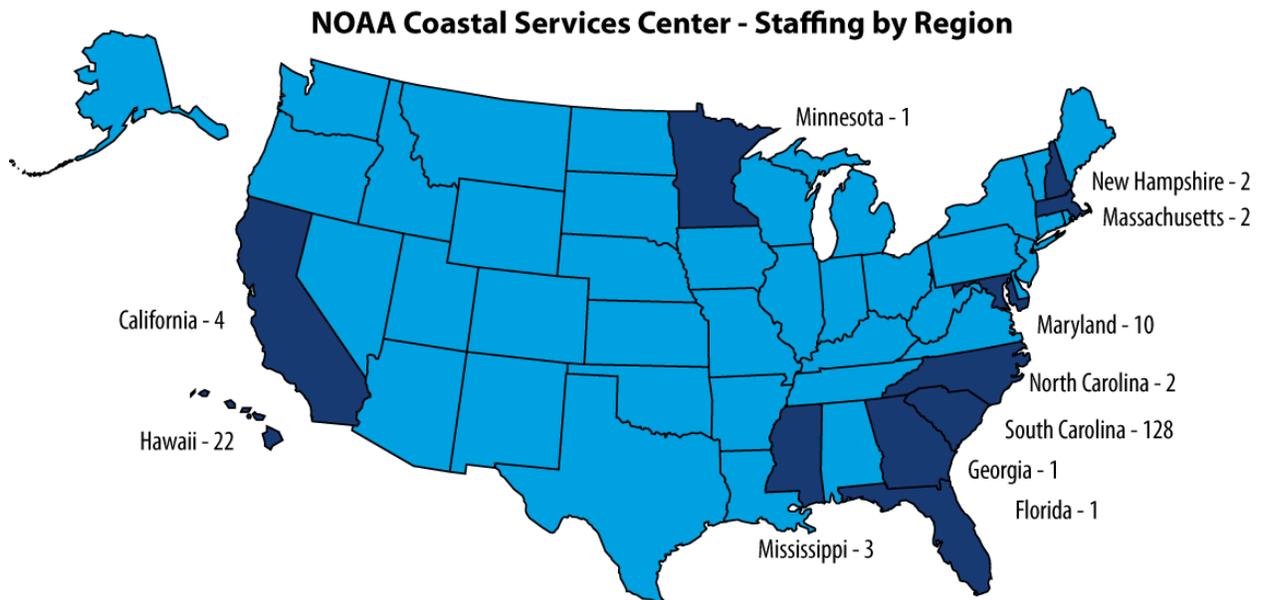
Current as of February 2010



Staffing

The staffing profile is listed below. There are 90 federal employees; the remaining 86 employees captured in the table below work for various contracting companies. Regionalization is an important concept for the Center, as the goal is to grow the organization to include a higher percentage of employees serving in the customer regions. The NOAA Pacific Services Center is the largest regional office.

Affiliation	Staff
Federal	90
Contract	84
The Baldwin Group	37
IM Systems Group	37
Contract (other)	6
HGS Engineering Inc	4
IPA (Interpersonnel Agreements) / Other	2
Total	176



Funding

Several considerations determine the annual allocation of Center resources to projects and activities: customer and partner needs; the strategic objectives of the Center, NOAA, and the administration; and guidance from the U.S. Congress. Most of the Center's budget is apportioned as part of the NOAA NOS budget in the NOAA operations, research, and facilities appropriation. The Center also acquires reimbursable funding from a variety of sources to conduct work. The FY 2010 Consolidated Appropriations Act provided \$ 26.6M for the Center (including the NOAA Pacific Services Center and regional activities). Changing priorities or unexpected events during the year may alter spending and project plans.

<i>Data represents funds enacted by the FY 2010 Consolidated Appropriations Act</i>	
NOAA Coastal Services Center FY 2010 Base Budget (by budget category) in \$	
Federal Labor	10,205,352
Federal Travel	1,045,653
Contractor Labor and Travel	4,854,134
Transportation	31,646
Rent, Communication, and Utilities	812,630
Printing and Reproduction	94,686
Contracts	5,962,399
Supplies and Materials	359,633
Equipment	277,363
Grants	100,000
NOS Overhead and Hollings Rescission	2,198,919
Transfers to Other NOAA Offices	700,585
Total Base	26,643,000
The following table represents other resources executed by the Center in FY2010.	
NOAA Coastal Services Center FY 2010 Other Direct Budget Resources (by program) in \$	
West Coast Governor's Agreement	500,000
Resilient Coastal Urban Community Ecosystem	250,000
Regional Geospatial Modeling	2,750,000
Coastal Storms Program	2,800,000
Ocean Research Priority Plan	3,000,000
Gulf of Mexico Regional Collaboration	4,750,000
Total Other Direct	14,050,000

Planned Accomplishments

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

NOS Coastal and Marine Resource Program(CMRP) and Coasts, Estuaries, and Oceans (CEO) Level Milestones

PPBES Program and ID #	Milestones	Fiscal Qtr
NOAA Strategic Performance Objective: Enhance NOAA's climate services and support the establishment of a National Climate Service		
CEO Performance Measure: Number of Regions in which capacity was built to address coastal hazards, other weather and water conditions.		
CEO1	Build capacity in the coastal and ocean management community in multiple regions to address resilience to weather and climate hazards and climate adaptation by providing decision support tools, technical assistance, fellowships, and data.	Q4
CEO2	Enhance state coastal and ocean managers' abilities to address climate impacts through data, sea level rise analyses, and visualization tools.	Q4
CEO3	Improve delivery of high-priority ocean and coastal information products and services required to enhance evidenced-based decision making through leadership on numerous interagency committees and panels, including the Ocean Research Priorities Plan, Regional Ocean Governance, Federal Geographic Data Committee, and Integrated Ocean and Coastal Mapping Initiative.	Q4
CEO Performance Measure: Increased CEO-related meetings, educational courses, and materials available and accessible to decision makers.		
CEO4	Enhance knowledge of coastal decision makers on resilience to weather and climate hazards and climate adaptation through sharing of information via printed and virtual publications, convening forums, and hosting workshops.	Q4
CEO Performance Measure: Percentage of U.S. coastal states and territories demonstrating 20% or more annual improvement in resilience capacity to weather and climate hazards (Government Performance Requirements Act pilot).		

CEO4	PILOT GEOGRAPHY-BASED DATA COLLECTION FOR NEW GPRA: Improve the resilience capacity of coastal states to weather and climate hazards through delivery of data, workshops, tools, training, and technical assistance.	Q4
NOAA Strategic Performance Objective: N/A		
CMRP Performance Measure: Number of students reached by coastal and marine education programs that meet state or national science education standards.		
	Increase environmental literacy in the Pacific Islands region through coastal and marine educational programs that highlight NOAA data, products, and services.	Q4
NOAA Strategic Performance Objective: Support comprehensive marine spatial planning		
CMRP Performance Measure: Number of decision-makers trained in best management practices to improve management of coastal and marine ecosystems.		
CMR1	Build the skills of the coastal and ocean management community to address and reduce human use and ecosystem conflicts through practices and methods delivered in training courses and materials.	Q4
CMRP Performance Measure: Percentage of tools, technologies and information services used by coastal managers to improve ecosystem approaches to management. (GPRA measure)		
CMR2	Increase accessibility and delivery of products and services to coastal managers via the Digital Coast and other means to improve ecosystem approaches to management.	Q4

NOS Contributing Milestones

MIS Proj #	Project Title	Milestones	Fiscal Qtr
<p>NOS Milestone: Improve delivery of high-priority ocean and coastal information products and services required to enhance evidenced-based decision making through leadership on numerous interagency committees and panels, including the Ocean Research Priorities Plan (ORPP), Regional Ocean Governance, Federal Geographic Data Committee, and Integrated Ocean and Coastal Mapping Initiative.</p>			
104	Coastal Storms Program (CSP) and ORPP	Provide informational outreach materials in support of the overall CSP program, including website support.	Q4
104	Coastal Storms Program and ORPP	Establish network of extension and education professionals and conduct state and regional targeted planning and implementation sessions to build capacity and broaden regional benefits within and beyond the Coastal Storms pilots.	Q4
104	Coastal Storms Program and ORPP	Coordinate planning and execution for coastal Pacific Islands and Gulf of Mexico pilot regions, including holding an annual planning meeting and developing draft implementation plans.-- Target 2	Q4
104	Coastal Storms Program and ORPP	Enhance coastal observations and models to improve forecasting in the Southern California, Pacific Islands, and Gulf of Mexico pilot regions.	Q4
104	Coastal Storms Program and ORPP	Develop an interagency agreement with U.S. Geological Survey to support mutual projects and administration	Q4
261	Regional Ocean Governance Support	Regularly convene federal or state agency representatives to improve coordination and communication in support of regional ocean governance in the Great Lakes.	Q4
261	Regional Ocean Governance Support	Articulate Northeast project priorities in the areas of ocean energy planning, hazard resilience, and coastal and ocean ecosystem health through an annual Northeast Regional Ocean Council work plan, and develop goals and objectives for a regional coastal and marine spatial plan for Northeast waters.	Q4

261	Regional Ocean Governance Support	Facilitate a series of stakeholder engagement workshops to inform the development of a South Atlantic (NC, SC, GA, FL) Alliance Action Plan.	Q2
261	Regional Ocean Governance Support	With subject matter input and leadership from Center staff members, projects funded by the states with NOAA Gulf of Mexico cooperative grants are directly assisting with implementation of 15-20 tasks in the Gulf of Mexico Alliance (GOMA) Action Plan supported by NOAA GOMA funds.	Q4
261	Regional Ocean Governance Support	Regularly convene federal agency representatives to improve coordination and communication in support of regional ocean governance in the Mid-Atlantic.	Q3
<p>NOS Milestone: Pilot Geography-Based Data Collection for New GPRA: Improve the resilience capacity of coastal states to weather and climate hazards through delivery of data, workshops, tools, training, and technical assistance.</p>			
6	Digital Coast Data Management	Five coastal counties reached through new data made publically available that are applicable to weather and climate hazards	Q3
15	Coastal Elevations and Inundation Mapping	Six coastal counties reached through Lidar quality assurance training	Q4
15	Coastal Elevations and Inundation Mapping	15 coastal counties reached through the delivery of sea level rise visualization and decision support tools via the Digital Coast	Q4
15	Coastal Elevations and Inundation Mapping	Five coastal counties reached through the Hawaiian Islands Topo/Bathy Inventory	Q4
15	Coastal Elevations and Inundation Mapping	Four coastal counties reached through Lidar Breakline Workshop	Q1
37	Adapting to Coastal Risks	300 coastal counties reach through the hazards tool Coastal County Snapshots	Q4
37	Adapting to Coastal Risks	20 coastal counties provided with technical assistance in assessing risks and vulnerabilities to weather and climate hazards	Q4

246	Digital Coast Partnership and Web Development	50 coastal counties reached through the Digital Coast's Coastal Inundation Toolkit.	Q4
NOS Milestone: Enhance knowledge of coastal decision makers regarding resilience to weather and climate hazards and climate adaptation through sharing of information via printed and virtual publications, convening forums, and hosting workshops.			
18	Coastal Conservation Partnerships	Three conservation planning case studies or resources that support climate change adaptation and are distributable to Center conservation partners and target audiences	Q4
72	General Conference, Workshop and Meeting Support	Provide meeting planning and logistical support to four meetings and workshops to support a total of 80 decision makers representing at least five states	Q4
72	General Conference, Workshop and Meeting Support	Provide meeting planning and logistical support to 4 meetings and workshops to support a total of 80 decision makers representing at least 5 states	Q2
79	Outreach, Communications, Web	Publish six issues of Center publications	Q4
79	Outreach, Communications, Web	Publish six issues of Center publications	Q2
85	Social Science Tools Technical Assistance and Coordination	Final report for Center's trends survey of coastal managers	Q4
246	Digital Coast Partnership and Web Development	Conduct Digital Coast Partnership group workshop	Q4
NOS Milestone: Build the skills of the coastal and ocean management community to address and reduce human use and ecosystem conflicts through practices and methods delivered in training courses and materials.			
29	Marine Spatial Planning	One-NOAA Marine Spatial Planning website	Q4
329	Training Development and Delivery	Coastal and ocean management community trained via the delivery of six geospatial, seven land use, and eight process trainings	Q2

329	Training Development and Delivery	Coastal and ocean management community trained via the delivery of four resilience, 10 geospatial, seven land use, and 10 process trainings	Q4
NOS Milestone: Build capacity in the coastal and ocean management community in multiple regions to address resilience to weather and climate hazards and climate adaptation by providing decision support tools, technical assistance, fellowships, and data			
6	Digital Coast Data Management	New data made publically available via the Digital Coast, applicable to weather and climate hazards and climate change adaptation	Q2
15	Coastal Elevations and Inundation Mapping	Host a Lidar Breakline Workshop at the Center for state, local, and federal coastal zone managers	Q1
15	Coastal Elevations and Inundation Mapping	Hawaiian Islands Topo/Bathy Inventory available on the Web	Q1
15	Coastal Elevations and Inundation Mapping	Provide Lidar quality assurance training for the Coastal Georgia Elevation Project partners	Q2
15	Coastal Elevations and Inundation Mapping	Sea level rise visualization and decision support tools for the Gulf of Mexico Region delivered via NOAA's Digital Coast	Q4
15	Coastal Elevations and Inundation Mapping	Deliver quality assurance and quality control training to National Weather Service (NWS) staff members for the purposes of building capacity of the NWS Advanced Hydrologic Prediction Service's (AHPS) flood inundation mapping services program	Q2
37	Adapting to Coastal Risks	Provide technical assistance to partners and customers in assessment risks and vulnerabilities to weather and climate hazards (three workshops)	Q4
37	Adapting to Coastal Risks	Hazards Coastal County Snapshots tool (Phase 2), available for all continental U.S. coastal counties	Q2
54	Federal Geospatial Data Coordination	SECART Data Explorer v.1 release (focus: resilience to weather and climate hazards)	Q2
65	Coastal Management Fellowship Program	Start of up to six Coastal Management Fellows for their two-year fellowships	Q4

246	Digital Coast Partnership and Web Development	Deliver Digital Coast's Coastal Inundation Toolkit	Q4
265	Climate Adaptation (Community building, capacity building, and technical assistance)	Final Pacific Islands Climate Change Virtual Library website is live	Q2
351	NOAA Climate Services Portal	A functional prototype of the NOAA Climate Services Portal	Q1
NOS Milestone: Increase environmental literacy in the Pacific Islands region through coastal and marine educational programs that highlight NOAA data, products and services.			
113	Environmental Literacy Program	Employ the Environmental Literacy Program to create, deliver, or support new data visualization sets, student experience-based programs, and teacher workshops that highlight NOAA data, products, and services for students across the state	Q4
NOS Milestone: Increase accessibility and delivery of products and services to coastal managers via the Digital Coast and other means to improve ecosystem approaches to management.			
3	Land Cover Data and Support	Provide access to multiple dates (2002 – 2007) of high resolution Coastal Change and Analysis Program (C-CAP) land cover for the U.S. Virgin Islands	Q3
3	Land Cover Data and Support	Provide access to 2005 high resolution C-CAP land cover for Hawaii and the Pacific Island territories	Q4
5	Coastal Geospatial Services Contract (CGSC)	Contracts awarded for the Coastal Geospatial Services Contract to provide access to commercial geospatial services	Q4
6	Digital Coast Data Management	New data made publically available applicable to climate change adaptation and ecosystem approaches to management	Q3
16	Marine Data and Standards	Humboldt Bay benthic habitat data available to state and local partners for Ecosystem Based Management	Q3

18	Coastal Conservation Partnerships	A local online tool for Mobile Bay conservation stakeholders that allows users to display and explore current habitat conservation priorities	Q2
29	Marine Spatial Planning	Multipurpose Marine Cadastre Version 2.0	Q4
54	Federal Geospatial Data Coordination	SECART Data Explorer v.1 release (focus: ecosystem approaches to management and climate change adaptation)	Q2
85	Social Science Tools Technical Assistance and Coordination	Primer document on facilitation completed	Q1
246	Digital Coast Partnership and Web Development	Deliver revamped Digital Coast website	Q3
254	Center Data Management	Updated catalog of Center data management standard operating procedures, best practices, and data services	Q4
329	Training Development and Delivery	Three on-line course offerings are launched on Center website	Q4

Center-Level Milestones

MIS Proj #	Project Title	Milestones	Fiscal Qtr
Perf Meas 1_Coastal Observations and Analysis: Increase % of Global Climate Observing System, Integrated Ocean Observing System, Arctic Observing System			
85	Social Science Tools Technical Assistance and Coordination	Technical assistance with five internal survey efforts	Q4
Perf Meas 1_CM RP: Number of decision-makers trained in best management practices to improve management of coastal and marine ecosystems.			
65	Coastal Management Fellowship Program	Select fellows through the Coastal Management Fellowship Matching Workshop	Q3
85	Social Science Tools Technical Assistance and Coordination	Technical assistance provided for two social network analysis projects	Q4
85	Social Science Tools Technical Assistance and Coordination	Facilitation support provided for five events	Q4
85	Social Science Tools Technical Assistance and Coordination	Technical assistance provided for ten external survey efforts	Q4
133	Pacific Services Center (PSC) NOS Partner Support	Train Pacific Islands region personnel in high accuracy Global Positioning System (GPS) techniques and geodetic leveling	Q4
133	PSC NOS Partner Support	Train and assist various partners, or intended audiences, to enhance the National Spatial Reference System (NSRS)	Q4
133	PSC NOS Partner Support	Hold six workshops or trainings to traditional and non-traditional users on the uses and development of the NSRS	Q4

Perf Meas 2_Climate Observations and Analysis: Number of new products and services developed.			
265	Climate Adaptation (Community building, capacity building, and technical assistance)	New (v2)Coastal Climate Adaptation Website	Q3
265	Climate Adaptation (Community building, capacity building, and technical assistance)	Updated climate presence on the Center website	Q2
351	NOAA Climate Services Portal	In coordination with Content Providers, produce an analysis of feedback on the portal prototype and a list of recommended revisions to the portal.	Q4
Perf Meas 3_CEO: Number of regions in which capacity was built to address coastal hazards, other weather and water conditions.			
54	Federal Geospatial Data Coordination	NOS Metadata Policy Compliance	Q4
54	Federal Geospatial Data Coordination	NOS Information Quality Act and NOS Peer Review Compliance	Q4
65	Coastal Management Fellowship Program	Select state agency projects for Coastal Management Fellowship.	Q1
104	Coastal Storms Program and ORPP	Development of implementation plan for ORPP Near Term Opportunity Forecasting the Response of Coastal Ecosystems to Persistent Forcing and Extreme Events	Q4
Perf Meas 3_CM RP: Percentage of tools, technologies and information services used by coastal managers to improve ecosystem approaches to management. (GPRA measure)			

133	PSC NOS Partner Support	Establish a High Accuracy Reference Network (HARN)/Cooperative Base Network (CBN) with 4-10 km spacing on Majuro, Kosrae, Pohnpie, Chuuk, Yap, and Palau.	Q4
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Acronyms

AOP Annual Operating Plan
AHPS Advanced Hydrologic Prediction System
CBN Cooperative Base Network
C-CAP Coastal Change Analysis Program
CEO Coasts, Estuaries, and Oceans
CGSC Coastal Geospatial Services Contract
CMRP Coastal and Marine Resources Program
CSC Coastal Services Center (Center)
CSP Coastal Storms Program
FY Fiscal Year
GIS Geographic Information System
GOMA Gulf of Mexico Alliance
GPRA Government Performance and Results Act
GPS Global Positioning Satellite
HARN High Accuracy Reference Network
IMSG I.M. Systems Group
IPA Interpersonnel Agreement
LIDAR Light Detection and Ranging
MIS Management Information System
MSP Marine Spatial Planning
NOAA National Oceanic and Atmospheric Administration
NOS National Ocean Service (NOAA Oceans and Coasts)
NROC Northeast Regional Ocean Council
NSRS National Spatial Reference System
NWS National Weather Service
ORPP Ocean Research Priorities Plan
PPBES Program Planning, Budgeting, and Execution System
PSC Pacific Services Center
SECART Southeast and Caribbean Regional Team
SOPs Standard Operating Plans
USGS United States Geological Survey