

**NOAA Coastal Services Center
Annual Operating Plan**

Fiscal Year 2008

(August 2008)

About This Document

This is the Annual Operating Plan (AOP) for activities of the National Oceanic and Atmospheric Administration (NOAA) Coastal Services Center (CSC or Center) in Fiscal Year (FY) 2008. It is primarily an internal NOAA document that provides information for the reader on the Center's mission, organization, program emphases, line office interactions, and project milestones. Many of the activities are undertaken in collaboration with partners from the NOAA line offices—NOAA Ocean Service (NOS or NOAA Oceans and Coasts), National Environmental Satellite, Data, and Information Service (NESDIS), Office of Oceanic and Atmospheric Research (OAR or NOAA Research), National Marine Fisheries Service (NMFS or NOAA Fisheries), National Weather Service (NWS), and Program Planning and Integration (PPI)—and other public and private coastal resource management interests. You may address questions about this document to Dr. Jeffrey L. Payne, Deputy Director, NOAA Coastal Services Center, at (843) 740-1200, or via e-mail at *Jeff.Payne@noaa.gov*.

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Table of Contents

Introduction.....	4
Organization.....	6
Fiscal Year 2008 Budget and Resource Information.....	8
Fiscal Year 2008 Program Highlights.....	9
Planned Accomplishments.....	14
Acronyms.....	27

Introduction

Mission

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

Core Values

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

Customers and Partners

Our primary customers are state and local resource managers who are often at the forefront of the nation's efforts to preserve coastal resources, promote responsible development, implement best practices, and build capacity to respond to and recover from coastal hazards.

Strategic Assessment

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

During this fiscal year, the Center conducted a streamlined and strategic priority-setting process in order to better respond to emerging priorities as well as to operate effectively within final appropriations. In order to address the most urgent requirements,

Primary Customers:

- *Local and state governments*
- *Regulatory programs*
- *Protected areas*
- *Wildlife agencies*
- *Sea Grant programs*
- *Planners*
- *Scientists*
- *Emergency preparedness officials*
- *Land conservation organizations*
- *Nonprofit organizations*

Primary Partners:

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

labor costs and programmatic activities were evaluated to determine which should stop, be delayed, or continued, and vacancies were closely scrutinized to determine the most pressing needs.

The FY 2009 budget plan is being assessed to continue to refine priorities based on these changing budget realities. Certain programmatic areas have achieved the goals the Center intended, and activities will taper off at the end of FY 2008. These areas include: national technical means and imagery derived products; physical maintenance of library materials; and habitat restoration. Activities that will have achieved goals set by the Center during FY 2009 and will be transitioned to other operating units within NOAA include harmful algal blooms (HABs) and the Center's long-standing support for the Integrated Ocean Observing System (IOOS). Benthic mapping will be phased out by FY 2010. The personnel impacted by these programmatic activities will be redirected to serve functions and implement projects that are focused on new strategic priorities, including an increasing emphasis on climate change and adaptation.

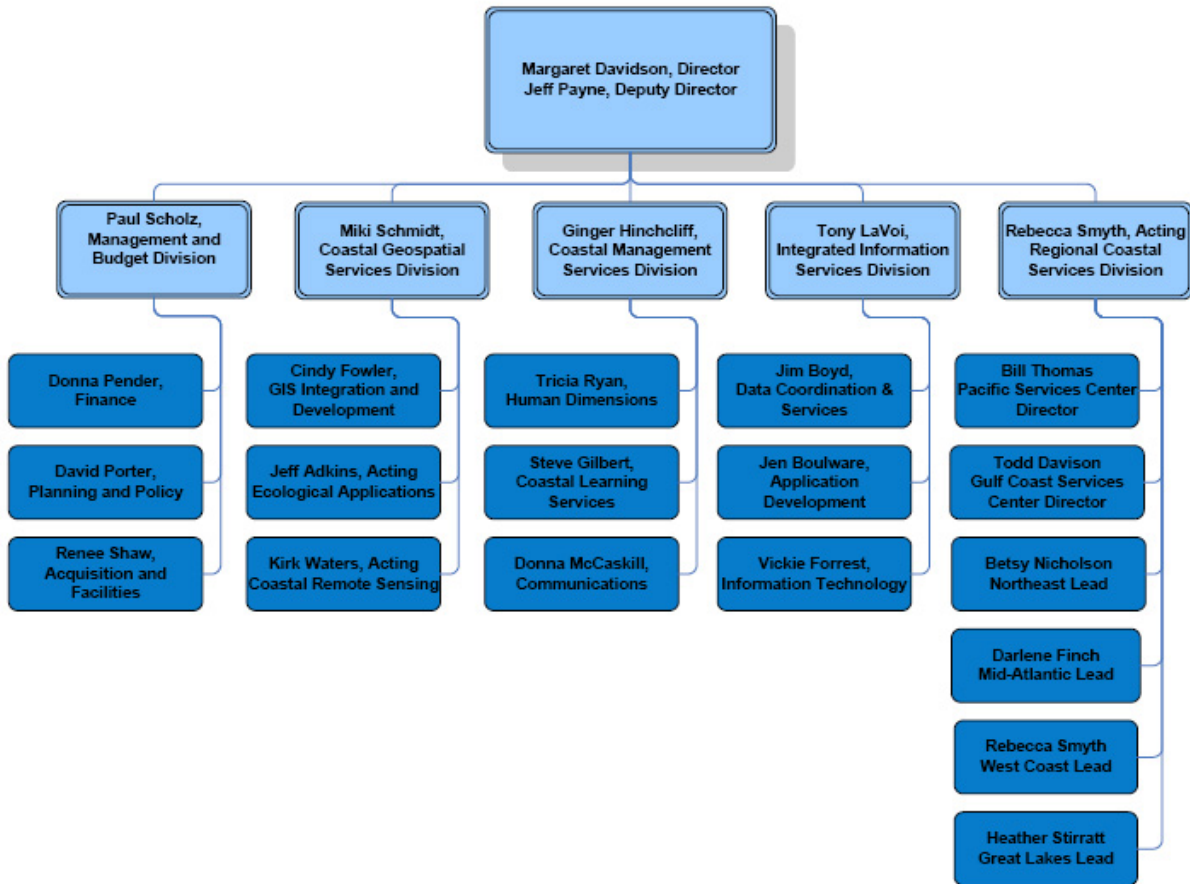
Over the past two years, the Center has adopted an explicit outcome- and theme-based approach to program planning and execution, and has completed an internal restructuring. Themes have been developed and implemented to improve our ability to achieve outcomes at the organizational level, utilizing logic models, performance measurement, strategic guidance, and cross-program collaboration. The Center has continued the operation of two themes—IOOS (although this will be largely transitioned to other NOAA offices, with the exception of continuing data management and interoperability support) and Hazard Resilience—and has implemented two new themes this year:

- Coastal and Ocean Planning
- Conservation

Organization

NOAA Coastal Services Center

Current as of July 2008



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

Regional Coastal Services Division. The Regional Coastal Services (RCS) division works through a nationwide network to create an informed and inspired coastal community that has a comprehensive understanding of coastal and ocean resource management issues, uses best thinking and practices, and makes the best social and economic decisions through the sharing of resources. RCS helps provide convenient and timely access to accurate and reliable information, as well as technology and training, and helps connect the Center and other NOAA programs to our partners and users in each region. The Center has deployed

individuals and capacities in six regions presently: the Pacific Islands, the Gulf of Mexico, the Northeast, the Mid-Atlantic, the West Coast, and the Great Lakes.

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

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

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

Management and Budget Services Division. Management and Budget (M&B) is responsible for the day-to-day business operations and planning, policy, and coordination functions of the Center. M&B ensures that the Center executes its mission in accordance with the appropriate federal procedures, and provides support services in acquisitions, property management, human resources, facilities management, and other administrative and financial services. M&B conducts support activities that include annual and long-range planning, legislative and policy analysis, overall coordination of the Center's performance measurement system, and coordination of rapid response drills and activities.

Fiscal Year 2008 Budget and Resource Information

The annual allocation of Center resources to projects and activities is determined by customer and partner needs, strategic objectives of the Center, NOAA, and the administration, and with guidance from the U.S. Congress. Most of the Center's budget is apportioned as part of the NOAA NOS budget in the NOAA operations, research, and facilities appropriation. The Center acquires reimbursable funding from a variety of sources to conduct work. The FY 2008 Consolidated Appropriations Act provided \$23.4M for the Center. Changing priorities or unexpected events during the year may alter spending and project plans.

<i>Data represents that of the FY 2008 Consolidated Appropriations Act</i>									
NOAA Coastal Services Center FY 2008 Base Budget (by service area) in \$									
M&B	CMS	IIS	CGS	DO	RCS	PSC	GCSC	Labor*	Total Base
1,158,926	1,415,150	1,244,305	748,947	650,600	212,227	1,746,642	138,852	16,087,321	23,402,970
* Includes federal, transferred, and contract labor									
<i>The following table represents other resources executed by CSC in FY2008.</i>									
NOAA Coastal Services Center FY 2008 Other Direct Budget Resources (by program) in \$									
Regional Geospatial Inundation Modeling	Coastal Storms Program	DUNE Assessment	Pt. Loma Enhanced Monitoring Program	Gulf of Mexico Regional Collaboration	OHHI	Urban Coast Institute	Total Other Direct		
7,992,000	1,462,686	868,631	892,107	4,875,620	2,925,371	892,107	19,908,522		

CSC Staff Report

Affiliations		Locations	
Contract (Other)	4	Charleston, SC	143
Federal	85	Honolulu, HI	21
FSSI (Field Support Services)	3	Silver Spring, MD	9
IMSG (IM Systems Group)	64	Stennis Space Center, MS	3
IPA (Interpersonnel Agreements)	1	Oakland, CA	3
PSGS (Perot Systems Government Services)	30	Durham, NH	2
Sparkle Cleaning Associates	3	Annapolis, MD	2
		Apalachicola, FL	1
Total	190	Miami, FL	1
		Peachtree, GA	1
		Plainville, MA	1
		Scituate, MA	1
		Norfolk, VA	1
		Chanhassen, MN	1
		Total	190

Fiscal Year 2008 Program Highlights

Coastal and Ocean Planning

The goal of the Center’s work in this area is that coastal communities will make land and ocean use decisions that lead to healthy coastal ecosystems and more resilient, economically-stable communities. The focus areas of the Center in coastal and ocean planning are driven by audience needs and challenges, vary to some degree in different regions, and are supported by the strengths and capabilities of staff members at the Center. Focus areas for this theme are land use planning (including smart growth strategies, watershed planning, the effects of land use planning on water quality, the consequences of climate change on land use, and public access—currently a driver in the West Coast region); and marine spatial planning (including using it as a way to do ecosystem-based management, resolving conflicting uses in the marine environment, regional ocean governance as a structure for doing marine spatial planning, and alternative energy development—currently a driver in the West Coast, Mid-Atlantic, Gulf of Mexico, and Northeast regions).

Projects that develop and explain the application of decision support tools—and provide data, training, and technical assistance to enhance understanding of ecosystem-based management and effective planning—will help Center customers understand how their decisions impact coastal and ocean use, and how those decisions affect economic, environmental, and social well-being. Projects that facilitate collaboration and stakeholder engagement in planning efforts related to the use of coastal and ocean resources—and also facilitate coordinated mapping efforts among other governmental agencies and partners—will help Center customers engage multiple sectors in approaching coastal and ocean planning problems. These multiple sectors include climate change, conservation, habitat restoration, and hazard risk and preparedness. Examples of projects planned for FY 2008 include:

- **Have access to data and focused tools that support decisions about the uses of coastal and marine resources**
 - U.S. Multipurpose Marine Cadastre** – Support to the Minerals Management Service in creating an integrated submerged lands information system consisting of legal, physical, and cultural information
 - Legislative Atlas** – A Web-based legislative mapping tool that gives coastal resource managers easy access to coastal legislative data and information

- **Have the training and technical assistance to know how to incorporate relevant data and tools into decision making**
 - Coastal Community Planning and Development (CCPD) training** – A course in which participants learn about alternatives to how and where growth will occur in their communities and strategies to support smart growth
 - Northeast regional water quality** – An assessment to determine how state coastal water quality data and protocols can be better coordinated and used for decision making; and to identify local partners that can benefit from the Center’s training courses and tools related to water quality improvement

- **Appreciate the interconnectedness of land and marine systems**
 - Nonpoint-Source Pollution and Erosion Comparison Tool (N-SPECT)** – A geographic information system (GIS) extension that helps coastal managers and local decision makers predict potential coastal and marine water-quality impacts from nonpoint source pollution and erosion on land

- **Appreciate the importance of multi-sector stakeholder engagement in planning decisions**
 - Regional ocean governance** – Providing support to the Gulf of Mexico Alliance, the Northeast Regional Ocean Council, and the West Coast Governor's Agreement on Ocean Health as they develop strategies for managing ocean and coastal resources in a more holistic, ecosystem-based manner through significant increases in regional collaboration

Conservation

This theme works to ensure that coastal resource professionals progress toward an ecosystem approach to management that routinely includes collaborating with diverse stakeholders, geographically specifying management areas, balancing diverse societal objectives, considering multiple external influences, accounting for ecosystem knowledge and uncertainties, and implementing adaptive management.

Activities will focus on producing as mid-term outcomes an increase in the number of conservation, climate, and land use professionals who are:

- Conducting baseline social and natural resource assessments and effectively integrating this information into planning processes
- Implementing monitoring approaches that integrate regular observation of social and natural conditions
- Establishing partnerships at appropriate ecosystem and regional levels
- Using collaborative processes for planning and information sharing within and between a range of ecosystem and regional scales
- Gaining access to, and understanding of, predictive models and information resources that can be integrated into decision making related to climate change, land use, and their cumulative impacts

Training, technical assistance, and continued exposure to products and services will be designed to support the following outcomes – a target audience that:

- Balances diverse societal objectives when addressing land use and climate change (and their cumulative impacts) and integrates that information to define coastal conservation priorities
- Uses predictive models to understand future conditions influencing land use and climate change, and the cumulative effects of both
- Is knowledgeable, bought-in, and accountable regarding their ecosystem or regional conservation priorities, considering stressors and impacts at appropriate ecosystem or regional scales and considering how their ecosystem or regional priorities nest at varying scales
- Develops management plans that: incorporate ecosystem or regional conservation priorities from varying appropriate geographic scales that account for multiple stressors of land use and climate change and the cumulative impacts of both; have at their core the goal of sustaining ecosystem services; and acknowledge uncertainties in outcomes and thus take an adaptive approach to management

Built into the outcomes is the clear intention to focus resources and attention on understanding and communicating the impacts and implications of climate change and aiding audiences in applying principles of resilience to climate impacts in their conservation planning and implementation. These principles include identifying and managing critical thresholds beyond which ecological function is unrecoverable, improving understanding of future conditions and impacts, accurately monitoring and assessing disturbance impacts, considering how multiple actions might interact, and considering response and recovery from

disturbances. Using the Center’s proven means—training and technical assistance, technology and data applications, and partnership building—we will work to increase our target audience’s capacity to successfully use conservation as a viable land use strategy for maintaining ecosystem services and addressing the impacts of climate change. In keeping with our regional approach that recognizes key geographic differences in drivers and needs, our conservation products and services will consider appropriate regional contexts and priorities.

Coastal Hazard Resilience

The Center's goal is for coastal communities to increase their resilience to coastal hazards. Rather than focusing exclusively on hazard vulnerabilities, the concept of coastal hazard resilience emphasizes an integrative, community-based approach to minimize hazards exposure, reduce hazards impacts, and strengthen local resilience capacities. Resilient communities are reasonably capable of bouncing back after natural disasters. They prepare well for such events and are capable of mitigating vulnerabilities, including those to ecosystems, the built environment, and area residents. The Center’s activities are focused on 1) providing users with audience-focused coastal hazards risk and resilience data and information products, 2) providing audiences with improved skills and capabilities for assessing community resilience and hazard risks and vulnerabilities, and 3) supporting regional, state, and local collaborations to reduce community vulnerabilities and improve resilience capacities.

In an effort to make more effective use of the resources expended in the last several years, current efforts focus heavily on enhancing existing products and services to form more focused, cross-theme suites of products or “toolkits.” This toolkit approach will allow the Center to better reach partners, serve their needs, and measure our effectiveness. The Coastal Hazards Resilience Theme Team has identified four primary focus areas based on ongoing activities and theme priorities:

- **Coastal Hazards Risk Information and Visualization**
 - Risk Data – Light Detection and Ranging (LIDAR), Topobathy, Historical Shorelines
 - Inundation Risk Mapping and Visualization
 - Hazards and Climate Visualization
 - Hazard Assessment Tools
 - Risk Mapping Training and Technical Support

- **Risk Behavior**
 - Human Dimensions (HD) of Risk and Risk Perception
 - Risk Communication Strategies
 - Motivators and Incentives
 - Outreach and Training

- **Resilience Assessment and Measurement**
 - Resilience Indicators

Vulnerability and Resilience Assessment
Methodologies and Resources
Training and Technical Support

- **Resilience Alternatives using “Green” Infrastructure**
 - Coastal Conservation
 - Living Shorelines
 - Green Infrastructure
 - Smart Growth and Land Planning
 - Climate Adaptation
 - Training and Technical Support

Integrated Ocean Observing System (IOOS)

In this theme, the Center seeks to work with multiple partners, including other NOAA offices, managers, academic institutions, the private sector, and nongovernmental organizations, to enhance the availability, utility, and integration of coastal and ocean observations to the coastal management community. To obtain this goal, the Center conducts activities that are focused on establishing the IOOS Regional Associations (RAs) for Ocean Observations as the primary points of contact for the coastal ocean community. The Center administers grants and cooperative agreements for both the stakeholder coordination activities of the RAs and the development of infrastructure, products, and information from Regional Coastal Ocean Observing Systems (RCOOS). Projects that engage the regional and federal communities to address data management issues will promote national standards, particularly in the areas of data transport, to improve the ability of IOOS partners and stakeholders to access and share observational data in a routine manner. Other projects support communication and coordination within and among RAs, the Ocean.US office, and NOAA efforts. A major area of emphasis will be on promoting the use of performance metrics to demonstrate the value of regional activities to the development of IOOS at the national level.

During FY 2008 and FY 2009, the Center will be working with the NOAA IOOS Program Office to transition our IOOS activities to that office. The Center will continue to work with RAs, as we work with other Center customers, to address areas of mutual interest, including coastal and ocean planning, hazards resilience, and conservation issues. As the Center transitions out of IOOS activities, our focus for FY 2008 remains that of ensuring that the regional component of IOOS is designed to serve the Center’s core customers: the coastal management community. In FY 2008, the following projects will address the following desired outcomes, with RAs serving as the points of contact for the user community and functioning according to the governance and business plans:

- **IOOS Grants and Agreements** – Supporting two new competitive processes designed to develop the regional IOOS and to administer existing IOOS cooperative agreements; working with the NOAA IOOS Program Office to establish a new business model and funding processes for regional IOOS
- **Regional Association Capacity Building** – Working with the RAs to improve communication and coordination among RAs by providing technical assistance on

specific issues and leading the development of the Third Regional IOOS Coordination Workshop

- **IOOS Communication and Coordination** – Coordinating NOAA and regional efforts in regional development and providing support to the NOAA IOOS Program Office on regional issues

In the following areas, protocols and standards developed by the community are endorsed by DMAC to facilitate data transport and exchange:

- **Ocean.US and DMAC Support** – Leading the Data Management and Communication (DMAC) Steering team to promote national data standards
- **Data Transport Laboratory (DTL)** – Providing a test bed for evaluating data transport protocols and working with regional data providers to improve the ability to contribute data to IOOS

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 (CMRP and CEO) Level Milestones

PPBES Program and ID #	Project Title	Milestones	Lead Program Area	Other CSC Programs Involved	NOAA Partners	Type	Fiscal Qtr
<p>NOAA Strategic Performance Objective: INCREASE NUMBER OF REGIONAL COASTAL AND MARINE ECOSYSTEMS DELINEATED WITH APPROVED INDICATORS OF ECOLOGICAL HEALTH AND SOCIOECONOMIC BENEFITS THAT ARE MONITORED AND UNDERSTOOD.</p>							
<p>CMRP Performance Measure: Percent of coastal and marine areas adequately characterized for management (percent areas characterized for management)</p>							

CMR1	Coastal Change Analysis Program (C-CAP) Development	Provide access to C-CAP 2006 updated land cover products for the Northeast and Great Lakes region on the Web	CRS			NOS	Q4
CMR2	Integrated Ocean and Coastal Mapping (IOCM)	Distribute NGS-acquired data, for IOCM Coastal Mapping Project, in coordination with the NOS Remote Sensing Working Group and project plan	CRS		NGS	NOS	Q4
CMR3	PSC NOS Partner Support	Establish a High Accuracy Reference Network (HARN)/Cooperative Base Network (CBN) with 4-10 km spacing on Palau	PSC			NOS	Q4
NOAA Strategic Performance Objective: INCREASE PORTION OF POPULATION THAT IS KNOWLEDGEABLE OF, AND ACTING AS, STEWARDS FOR COASTAL AND MARINE ECOSYSTEMS							
CMRP Performance Measure: Number of students reached by coastal and marine education programs that meet state or national science education standards.							
CMR4	Environmental Literacy Program	Increase the number of formal and non-formal education organizations using and benefiting from NOAA-related education materials, products, and services that meet state or national science education content and performance standards.	PSC			NOS	Q4
NOAA Strategic Performance Objective: INCREASE NUMBER OF COASTAL COMMUNITIES INCORPORATING ECOSYSTEM AND SUSTAINABLE DEVELOPMENT PRINCIPLES INTO PLANNING AND MANAGEMENT.							
NOAA GPRA: Percentage of Tools, Technologies, and Information Services that Are Used by NOAA Partners or Customers to Improve Ecosystem-Based Management (% tools, tech., info services used for EBM)							
CMR5	NOS Data Portal(s)	Update NOS Explorer and explore options for expansion through NOAA regional efforts.	ISA			NOS	Q4
CMR6	Gulf of Mexico Alliance Support	Develop and administer a state grant program to build state capacity and implement the goals of the Gulf of Mexico Alliance Governors' Plan of Action	GCSC			NOS	Q3

CMR7	Center Collaboration with NOAA Fisheries' Office of Habitat Conservation (OHC)	Develop guidance or best management practices on tidal hydrology restoration for practitioners and managers	EA			NOS	Q4
CMR8	Coastal Geospatial Services Contract (CGSC)	Work jointly with NGS to implement the Task Order Management Information System (TOMIS) for contract task order and deliverable management	CRS			NOS	Q2
CMR9	Regional Ocean Governance Support	The development and initial implementation of action plan for the West Coast Governors' Agreement on Ocean Health, a state-federal partnership, to improve the management of coastal and ocean resources within a regional framework	Non PSC Regional			NOS	Q4
CMR10	Regional Ocean Governance Support	The development and initial implementation of action plan for the Northeast Regional Ocean Council, a state-federal partnership, to improve the management of coastal and ocean resources within a regional framework	Non PSC Regional			NOS	Q4

CMRP Performance Measure: Number of decision-makers trained in best management practices to improve management of coastal and marine ecosystems (# decision-makers)

CMR11	Training and Conferences	Support broader understanding and networking in the coastal management community as measured by: 1) delivery of technology, process, and management training courses to Coastal Services Center clients and NOAA partners; and 2) planning, implementing, and evaluating conferences and workshops.	CLS, PSC, GIS I&D, CRS	HD		NOS	Q2, Q4
CMR12	Publications and Fellows	Provide coastal managers with best management practices as measured by: 1) publishing six issues of CSC publications; and 2) placing four coastal management fellows with state coastal management programs.	CLS, Communications		state Sea Grant;state Coastal Programs	NOS	Q2, Q4
CMR13	Technical Assistance	Provide technical assistance to external partners and internal CSC staff in survey design, social assessment, performance measures, logic models, needs assessments, content structure and delivery, facilitation, and evaluation on an as-needed basis	HD, CLS		SPO;OCRM and ERD	NOS	Q2, Q4

NOAA Strategic Performance Objective: IMPROVE PREDICTABILITY OF THE ONSET, DURATION, AND IMPACT OF HAZARDOUS AND SEVERE WEATHER AND WATER EVENTS

CEO Performance Measure: Cumulative percentage of U.S. shoreline and inland areas that have improved ability to reduce coastal hazards impacts (*hazards gpra*)

CEO Performance Measure: Number of regions in which capacity was built to address coastal hazards and other weather and water conditions

CEO3	Management and Administration (Coastal Storms Program)	Develop decision support tools and models to address region specific needs via the Coastal Storms Program	PPS		NMFS; NOS; OAR; NWS	NOS	Q4
CEO4		Collaboration and technical support on hazards-related geospatial decision support tools and information	GIS I&D, PSC			NOS	Q4

CEO5	Pacific Islands - Enhancing Coastal Community Resilience	Coordination and collaboration within the Pacific Islands to enhance community resilience	PSC			NOS	Q4
CEO6		Develop and deliver coastal inundation tools, techniques, and maps	GIS I&D, CRS, ISA			NOS	Q2, Q4
CEO7	Harmful Algal Blooms	Provide [Google Maps] visualization tool to analysts that incorporates satellite imagery, buoy information, glider data, and human observations to produce HAB forecasts of bloom locations and health impacts for distribution to coastal managers and the general public	CRS			NOS	Q4
NOAA Strategic Performance Objective: ENHANCE ENVIRONMENTAL LITERACY AND IMPROVE UNDERSTANDING, VALUE, AND USE OF WEATHER AND WATER INFORMATION AND SERVICES.							
CEO Performance Measure: Number of CEO-related meetings, courses, and material available and accessible to decision makers							
CEO 8		Engage CZM, emergency management, floodplain managers, and others in data, inundation, and resilience-related workshops, conferences, courses, and new curricula	CLS, GIS I&D, HD			NOS	Q2, Q4
CEO2	Management and Administration (Coastal Storms Program)	Build regional capacity via outreach and training through the Coastal Storms Program	PPS			NOS	Q4
CEO 9		Outreach materials developed and delivered (publications, websites, informational products)	Communications, GIS I&D, PPS, PSC			NOS	Q2, Q3, Q4

CEO 10		Facilitate the development of community level resilience assessment and planning processes.	Non PSC Regional, PSC, GIS I&D			NOS	Q2, Q4
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NOAA Strategic Performance Objective: INFORMATION TECHNOLOGY: INCREASE INTERNAL AND EXTERNAL AVAILABILITY, RELIABILITY, SECURITY, AND USE OF NOAA INFORMATION TECHNOLOGY AND SERVICES.

IOOS Performance Measure: Number of IOOS DMAC standards published

		Operationalize the Ocean.US DMAC standards process and facilitate its use by regional and interagency partners (complete two cycles for publishing standards)	IOOS Program		IOOS Program	NOS	ANNUAL
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IOOS Performance Measure: Number of IOOS core variables integrated

		Implement the Data Integration Framework (DIF) for the management and communication of IOOS core variables to make disparate NOAA Ocean Observing Systems interoperable	IOOS Program		IOOS Program	NOS	ANNUAL
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IOOS Performance Measure: Number of IOOS Program products and services delivered to support development and sustainment of regional ocean observing systems (number of IOOS Products)

		Develop products, services, and partnerships to support implementation of regional component of national IOOS	CMS Ops			NOS	Q1, Q2, Q3, Q4
		Conduct program actions to connect regional and national IOOS efforts	IOOS Program		IOOS Program	NOS	ANNUAL

CSC-Level Milestones

Mstn #	Project Title	Milestones	Lead Program Area	Other CSC Programs Involved		Type	Fiscal Qtr
Perf Meas 1_CEO Number of regions in which capacity was built to address coastal hazards and other weather and water conditions							
Incomplete from FY07	U.S. Government's Contribution to the Indian Ocean Tsunami Warning System Program	Development of the Coastal Community Resilience Guidebook for the 2004 Tsunami impacted Indian Ocean Region	PSC			CSC	Q4 (FY07), Q1
104		Coordinate planning and execution for Coastal Southern California and Gulf of Mexico pilot regions, including holding an annual planning meeting and developing draft implementation plans	PPS			CSC	Q3
Perf Meas 2_CEO Cumulative percentage of U.S. shoreline and inland areas that have improved ability to reduce coastal hazards impacts							

253	Topo/Bathy Applications	Generate a topobathy surface for a multi-state section of the northern Gulf of Mexico suitable for use in inundation modeling	CRS			CSC	Q2
Perf Meas 1_CMRP Number of students reached by coastal and marine education programs that meet state or national science education standards							
99		Deliver second SECART regional collaboration meeting	DO			CSC	Q2
Perf Meas 2_CMRP Percentage of Tools, Technologies, and Information Services that Are Used by NOAA Partners or Customers to Improve Ecosystem-Based Management							
255	IOCM Support	Provide coastal geospatial data to the public through Digital Coast	CRS			CSC	Q4
31	Northern California Conservation: Linking Land and Sea	Deliver a benthic habitat vector data set for Humboldt Bay to fill a partner-identified priority spatial data gap	GIS I&D			CSC	Q4
27	Digital Coast: Legislative Atlas	Produce a revised and expanded Digital Coast: Legislative Atlas website and associated databases	GIS I&D			CSC	Q4
29	Marine Spatial Planning	Publish marine cadastre website and data viewer	GIS I&D			CSC	Q3

7	Digital Coast	Provide public access to coastal geospatial data on the Digital Coast website	CRS			CSC	Q3
149	San Francisco Bay Subtidal Habitat Goals Project	Deliver draft goals document for public review and input	Regional			CSC	Q4
77	Social Assessment Technical Assistance	Completed regional roundtable workshops in Florida and California	HD			CSC	Q4
85	Needs Assessment and Social Science Tools Coordination and Tech Assist	Develop a draft economics primer document	HD			CSC	Q4
85	Needs Assessment and Social Science Tools Coordination and Tech Assist	Draft needs assessment reports for West Coast and Pacific Islands regions	HD	Non PSC Regional		CSC	Q4
85	Needs Assessment and Social Science Tools Coordination and Tech Assist	Draft needs assessment for the New England region	HD	Non PSC Regional		CSC	Q3
Incomplete from FY07	N-SPECT Applications	Release N-SPECT version 2.0	CRS			CSC	Q4 (FY07), Q4
Incomplete from FY07		Complete federal level georegulations for Hawaii and draft georegulations for the Caribbean and Pacific Islands	GIS I&D			CSC	Q4
Incomplete from FY07	Regional Needs Assessments	Convene first needs assessment workshop with Northeast regional representatives, and begin review of existing regional requirements documents and surveys	Non PSC Regional			CSC	Q3 (FY07), Q4 (FY07), Q3

Perf Meas 3_CMRP **Number of decision-makers trained in best management practices to improve management of coastal and marine ecosystems**

278	EBM Tools Network - Center Partnership and Participation	Develop (in collaboration with other network partners) an EBM tools training program	EA			CSC	Q4
29	Marine Spatial Planning	Draft outline curriculum for marine boundary delimitation workshop	GIS I&D			CSC	Q4
29	Marine Spatial Planning	Develop and implement a handbook evaluation plan	GIS I&D			CSC	Q4
23	GIS Training and Curriculum Development	Teach one GIS Tools for Strategic Conservation Planning class to coastal management community	GIS I&D			CSC	Q2
13	RS Training	Completed short course covering Remote Sensing for Managers	CRS			CSC	Q4
79	Internal Communication Services	Provide Center teams with support in editing, writing, graphics, and outreach as needed	Comm			CSC	Q4
65	Coastal Management Fellowship Program	Select at least four state agency projects for the Coastal Management Fellowship	CLS			CSC	Q1
65	Coastal Management Fellowship Program	Select at least four fellows through the Coastal Management Fellowship matching workshop	CLS			CSC	Q3

66	Coastal Zone Conference	Publication of CZ09 Call for Abstracts	CLS			CSC	Q4
Incomplete from FY07	Enterprise GIS at CSC	Enterprise Enabled: Navigating Toward Enterprise GIS - Lessons Learned	ISA			CSC	Q4 (FY07), Q2
Incomplete from FY07	Regional Coastal Water Quality	Assess need for, and deliver, relevant trainings to local partners in two or more regions	Non PSC Regional			CSC	Q3 (FY07), Q4 (FY07), Q3
Perf Meas 4_CMRP Percent of coastal and marine areas adequately characterized for management							
Incomplete from FY07	Benthic Habitat Mapping and Classification	Complete habitat gap analysis and develop strategy to fill gaps	Non PSC Regional			CSC	Q4 (FY07), Q4
3	Coastal Change Analysis Program (C-CAP) Development	C-CAP 2001 land cover products for the Pacific Islands region on the Web	CRS			CSC	Q3
3	Coastal Change Analysis Program (C-CAP) Development	C-CAP 2001 land cover products for the Caribbean Islands region on the Web	CRS			CSC	Q3

4	Coastal Change Analysis Program (C-CAP) High Resolution	High resolution impervious surface products provided to PSC for distribution to Maui coastal resource managers	CRS			CSC	Q2
4	Coastal Change Analysis Program (C-CAP) High Resolution	High resolution land cover products provided to PSC for distribution to Oahu coastal resource managers	CRS			CSC	Q2

No performance measure assigned

Incomplete from FY07	Project Planning and Reporting Database (aka MIS)	Evaluate the initial release of the Center's Project Planning and Reporting Database and determine next steps	PPS			CSC	Q4 (FY 07), Q1
	Shoreline Data Development, Visualization, and Delivery	Work jointly with NGS to develop a One-NOAA shoreline website	GIS I&D			CSC	Q3
118	Coastal and Marine Habitat Classification and Assessment	Develop seagrass habitat maps within Gulf of Mexico	EA			CSC	Q4

Number of activities conducted to provide a technically trained workforce and environmentally informed citizenry (Outdated measure)

119	Pacific Islands Technical Assistance	Provide GIS training to at least eight coastal resource managers	PSC			CSC	Q4
17	CGS GeoTools	Begin initial planning for Coastal GeoTools '09	CGS			CSC	Q4

40	Center Collaboration with NOAA Fisheries' Office of Habitat Conservation	Host workshop (in collaboration with NOAA Restoration Center) on tidal hydrology restoration in the Southeast region	EA			CSC	Q2
246	CGS - Partnership Development Group for Digital Coast	Provide a summary of the needs and potential areas for collaboration with the partners in the Coastal Network of Networks	CGS			CSC	Q3
100	Theme Teams	Develop CSC Strategic Plan	DO			CSC	Q2
Cumulative number of coastal and marine habitat acres designated or acquired for long-term protection (outdated measure)							
40	Center Collaboration with NOAA Fisheries' Office of Habitat Conservation	Create workplan for implementing a new pilot community-based collaborative conservation planning project with NOAA Fisheries' Cooperative Habitat Protection Partnership (CHPPs) program and The Nature Conservancy	EA			CSC	Q4
Cumulative number of tools and technologies that improve ecosystem management (outdated measure)							
22	CSC Geography Project	Develop Web-based CSC Project Geography analysis tool and associated project level spatial datasets	GIS I&D			CSC	Q4
11	N-SPECT Applications	Create inter-Agency plan for N-SPECT version 2.0	CRS			CSC	Q3
137	Pacific Island Ecosystem Management	Develop plan for Ahupuaa Matrix for Hawaii	PSC			CSC	Q4

53	CSC Geospatial Data Coordination	Completed Enterprise GIS tutorials	ISA			CSC	Q1
53	CSC Geospatial Data Coordination	Updated Center metadata holdings and process document outlining how CSC will maintain current metadata holdings	ISA			CSC	Q1
54	Federal Geospatial Data Coordination	Lead NOAA and NOS GIS teams and maintain website	ISA			CSC	Q4
254	CSC Data Management Plan	Data management policies and procedures for specific topical areas	ISA			CSC	Q4
149	San Francisco Bay Subtidal Habitat Goals Project	Document methodology in a process document as a reference for developing future subtidal goals projects in other West Coast bays and estuaries	Regional			CSC	Q3
Number of ecosystems or sub-ecosystems with collaborative mechanisms (outdated measure)							
Incomplete from FY07	Maine Coast Protection Initiative (MCPI)	Provide a summary of MCPI evaluation findings through a brief summary report and brown bag presentation	GIS I&D			CSC	Q4 (FY07), Q1

Acronyms

- AOP** Annual Operating Plan
- CBN** Cooperative Base Network
- C-CAP** Coastal Change Analysis Program
- CCPD** Coastal Community Planning and Development
- CEO** Coasts, Estuaries, and Oceans
- CGS** Coastal Geospatial Services
- CHPP** Cooperative Habitat Protection Partnership
- CLS** Coastal Learning Services
- CMRP** Coastal and Marine Resources Program
- CMS** Coastal Management Services
- CMS Ops** Coastal Management Services Operations
- CRS** Coastal Remote Sensing

CSC Coastal Services Center (Center)
CSP Coastal Storms Program
CZ Coastal Zone
CZM Coastal Zone Management
DIF Data Integration Framework
DMAC Data Management and Communications
DO Director's Office
DTL IOOS Data Transport Laboratory
EA Ecological Applications
EAM Ecosystem Approach to Management
EBM Ecosystem-Based Management
FSSI Field Support Services
FY Fiscal Year
GCSC Gulf Coast Services Center
GIS Geographic Information System
GIS I&D Geographic Information Systems Integration and Development
GPR Government Performance and Results Act
HAB Harmful Algal Bloom
HARN High Accuracy Reference Network
HD Human Dimensions
IIS Integrated Information Services
IMSG I.M. Systems Group
IOCM Integrated Ocean and Coastal Mapping
IOOS Integrated Ocean Observing System
IPA Interpersonnel Agreement
ISA Interoperability, Standards and Access
IT Information Technology
LIDAR Light Detection and Ranging
M&B Management and Budget
MCPI Maine Coast Protection Initiative
MIS Management Information System
NESDIS National Environmental Satellite, Data, and Information Service
NGS National Geodetic Survey
NMFS National Marine Fisheries Service (NOAA Fisheries)
NOAA National Oceanic and Atmospheric Administration
NOS National Ocean Service (NOAA Oceans and Coasts)
N-SPECT Nonpoint Source Pollution and Erosion Comparison Tool
NWS National Weather Service
OAR Office of Oceanic and Atmospheric Research (NOAA Research)
OCRM Office of Ocean and Coastal Resource Management
OHC Office of Habitat Conservation
OHHI Oceans and Human Health Initiative
PPBES Program Planning, Budgeting, and Execution System
PPI Program Planning and Integration
PPS Planning and Policy Services
PSC Pacific Services Center

PSGS Perot Systems Government Services
RAs Regional Associations
RCOOS Regional Coastal Ocean Observing System
RCS Regional Coastal Services
RS Remote Sensing
SECART Southeast and Caribbean Regional Team
SPO NOAA Special Projects Office
TOMIS Task Order Management Information System