



June 14, 2011

FGDC Coordination Group Meeting

Marine & Coastal Spatial Data Subcommittee Update

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Introduction

MCSO Subcommittee objective:

- To advance and implement the Marine and Coastal National Spatial Data Infrastructure, working to develop strategic partnerships, relevant standards, and enhance access to and utility of coastal and ocean framework data

Members include:

- Numerous agencies: NOAA, EPA, USACE, BOEMRE, USFWS, USGS, NGA, BLM, NPS, USCG, Census, NSF
- Various state and local governments
- Various academia and private organizations



Recent Meetings

- ❖ MCSD Subcommittee last met in FY2009
- ❖ Topics discussed at this meeting included:
 - OMB Circular A-16 Updates
 - International Coastal Atlas Network
 - Coastal & Marine Ecological Classification Standard
 - NOAA's Digital Coast
 - Interagency Working Group on Ocean & Coastal Mapping
 - Multipurpose Marine Cadastre
 - NOAA Shoreline Website



Marine & Coastal Spatial Data Subcommittee - Standards

Currently, the FGDC Marine & Coastal Spatial Data Subcommittee is developing three standards that support the documentation, collection, and distribution of coastal and marine data. Below you will find the status of the standards, links to the proposals, and the official standards documents, if presently available. The documents on this page are in Portable Document Format. You can download a free PDF reader from [Adobe](#).

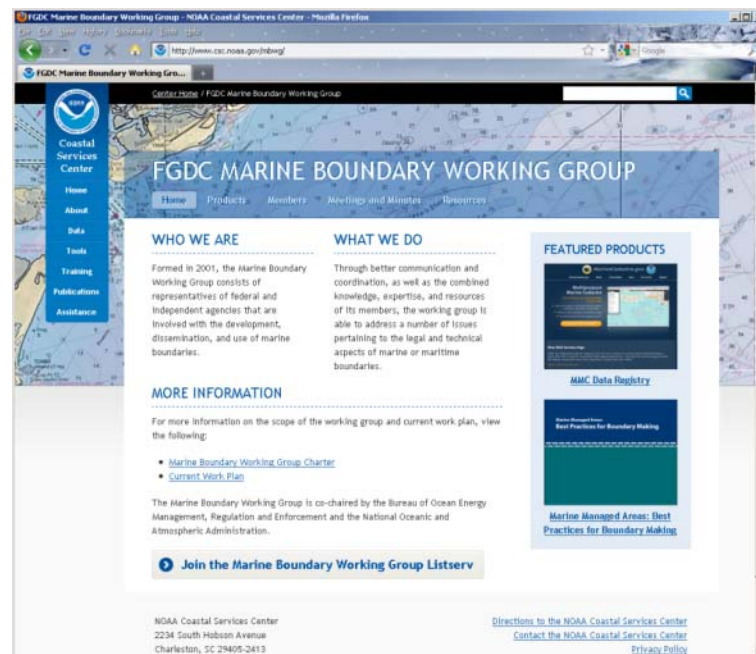
Standard Name	Status
Shoreline Metadata Profile	FGDC Endorsed
Geospatial Positioning Accuracy Standard, Part 5: Navigation Charts and Hydrographic Surveys	Pending Endorsement
National Shoreline Data Content Standard	Pre-Review Stage

NOAA Coastal Services Center
2234 South Hobson Avenue
Charleston, SC 29405-7213

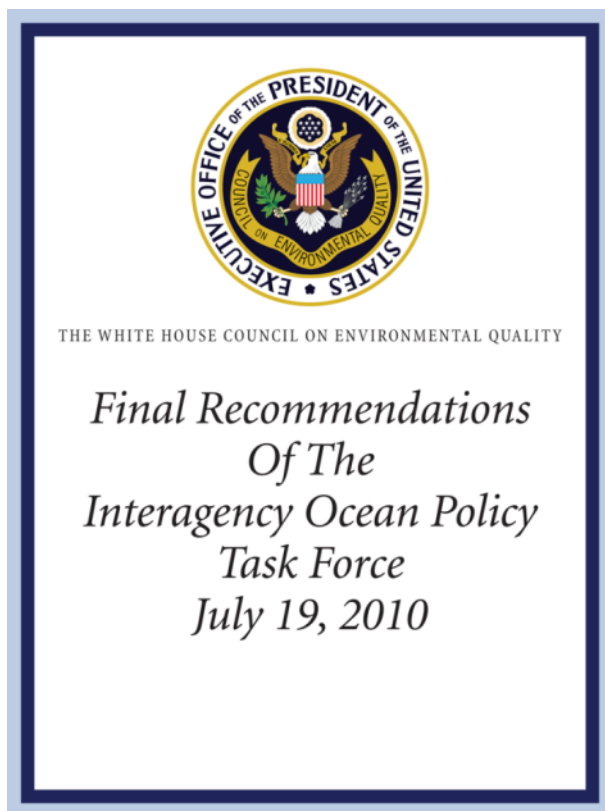
United States Department of Commerce
National Oceanic and Atmospheric Administration
National Ocean Service

Recent Meetings

- ◆ Marine Boundary Working Group (MBWG) met in December 2010
- ◆ Topics discussed at this meeting included:
 - Updates from Agencies and Committees
 - Coastal Barrier Resources System Map Modernization
 - The Nature Conservancy Eco-regional Assessments
 - Multipurpose Marine Cadastre



CMSP National Information Management System (NIMS)



- ◆ National Ocean Policy
- ◆ National Ocean Council
- ◆ 9 National Priority Objectives
- ◆ Framework for Coastal and Marine Spatial Planning (CMSP)
- ◆ National Information Management System (NIMS) prototype due in August 2011



NIMS Development

- Creation of Interagency Information Management System (IMS) and CMSP Data Portal Working Group (formed at beginning of FY11; meet every two weeks)
- Operating principles
 - Analyze existing user needs assessments to define CMSP requirements
 - Commitment to explore existing systems
 - *Geospatial One-Stop, Data.gov, Multipurpose Marine Cadastre, Integrated Ocean Observing Systems (IOOS), agency specific information systems, academic and private sector research and applications*
 - Outreach to related coordination bodies
 - *Interagency Working Group on Ocean and Coastal Mapping (IWG-OCM), Federal Geographic Data Committee (FGDC)*
- Focus areas
 - Information, Data, and Application Requirements
 - Portal Design / NIMS Prototype
 - Standards and Governance
 - Identification of Lead Agency



NIMS Prototype on Data.gov

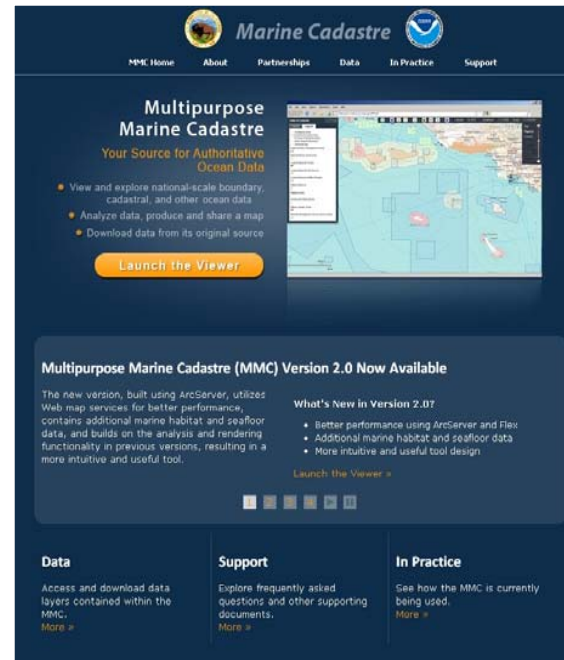


- ◆ EPA, USGS, Navy, and NOAA leading development of CMSP Community (NIMS prototype) on Data.gov
- ◆ NIMS Categories
 - Data Resources
 - Decision Support Tools
 - Technical Community of Practice
 - Regional Efforts
 - Forum

Recent Developments - Projects

◆ Multipurpose Marine Cadastre

- DOI/BOEMRE and NOAA partnership (data from other agencies as well)
- Online mapping tool providing authoritative ocean data in support of coastal and marine spatial planning
- View and explore offshore boundary, infrastructure, energy potential, and other supporting geographic information
- Assess suitability for ocean uses; produce or share maps
- Expected to be a national mapping component of the CMSP NIMS prototype
- Supporting DOI Smart from the Start Wind Energy Area siting process



Authoritative Framework Data

- Web Portal
- Web Services

National Viewer

- Web mapping
- Data Analysis
- Map production

Regional and State Support

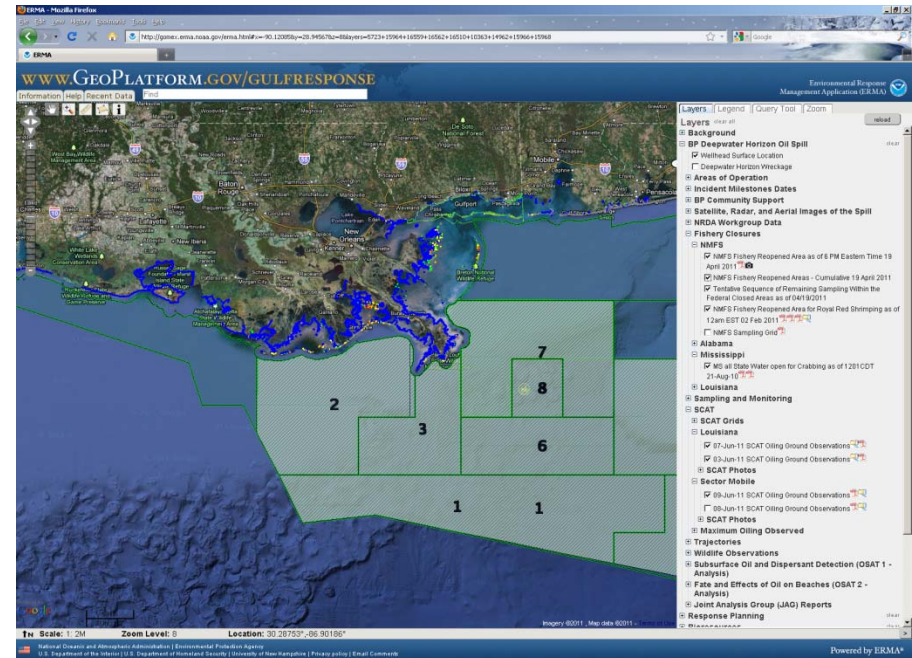
- Best Practices
- Templates and code
- Consultation



Recent Developments - Projects

◆ Geoplatform.gov/Gulfresponse

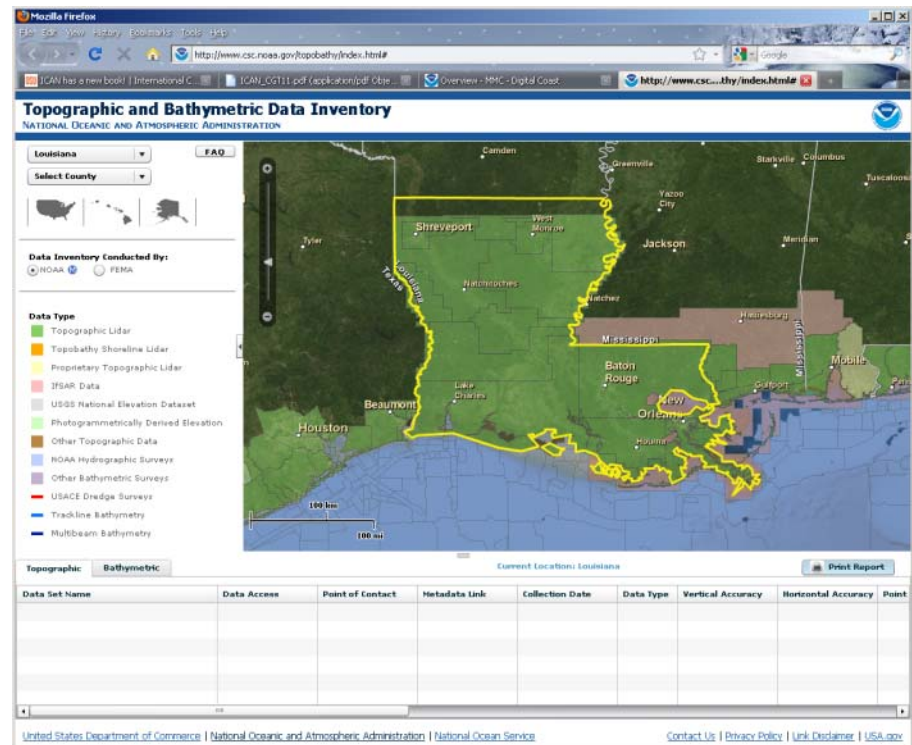
- Common Operating Picture (COP) for Deepwater Horizon Oil Spill - online mapping tool that provides near-real time information about the response effort
- Developed by NOAA with EPA, U.S. Coast Guard, and the Department of Interior
- GeoPlatform.gov/gulfresponse employs the Environmental Response Management Application (ERMA®) a web-based GIS platform developed by NOAA and the University of New Hampshire's Coastal Response Research Center
- Currently being used to support Natural Resources Data Assessment (NRDA) data management efforts



Recent Developments - Projects

◆ Topographic and Bathymetric Data Inventory

- Displays the best-available topographic and bathymetric data for the United States
- Information from two federal inventory efforts – NOAA and FEMA
- NOAA inventory includes both topographic and bathymetric data and covers the coastal areas of the nation
- FEMA inventory includes topographic data and covers the entire nation, including Puerto Rico
- Supportive of USGS-led multi-agency funded assessment of the business needs for elevation datasets, as well as NED
- NOAA and USGS working to make a single more complete survey



Recent Developments - Projects

◆ Digital Coast

- Approach: Bringing the geospatial and coastal management communities together to focus on common priority issues
- Outcome: A constituent-driven, integrated, enabling platform supporting coastal resource management
- External Partnership Group: APA, ASFPM, CSO, NACo, NSGIC, and TNC
- Many Contributors
- Offering:
 - ◆ Coastal Data
 - ◆ Tools
 - ◆ Training
 - ◆ Case Studies



DIGITAL COAST
NOAA Coastal Services Center

Home Data Tools Training Approaches In Action

More than just data...

The Digital Coast also provides the tools, training, and information needed to turn these data into the information most needed by coastal resource management professionals. [Read more...](#)

Welcome to the Digital Coast. If you have questions or comments, please [take a video tour](#) or [contact us](#).

Data
Learn more about the kinds of data available and download data.

Tools
Use these tools to turn data into the useful information your organization needs.

Training
Update your skills by participating in one of these training programs.

In Action
See how data and tools are used to address coastal management issues.

Approaches
Coastal Inundation Toolkit
Understand the basics and get the tools that will help make your community more resilient.

Offshore Renewable Energy Planning
Get the data and tools needed to make strong decisions.

Conserving Coastal Wetlands for Sea Level Rise Adaptation
Learn spatial techniques and get resources to prioritize wetland conservation.

Featured Resources
Digital Coast Webinar Series
Features a series of presentations, demonstrations, and discussions on Digital Coast products.

State of the Coast
Get a state-level view of how coastal ecosystems, economies, and communities are connected.

Mississippi Geospatial Clearinghouse
A comprehensive spatial information warehouse for use by government, academia, and the private sector.

Recent Updates [Sign up for updates](#) [Subscribe to RSS feed](#)

Data
Economics: National Ocean Watch (NOW)
Time-series data for counties, states, and the nation.

Data
Quarterly Census of Employment and Wages
Quarterly count of jobs and wages by county, state, and the nation.

Tools
Sea Level Rise Impacts Viewer
Creates maps of potential sea level rise impacts on coastal areas.

Testimonials
“ I am amazed at all the information on Digital Coast that I didn't know was available. ”
County commissioner

If you have content to submit to the Digital Coast, [let us know](#).

Recent Developments - Standards

◆ Coastal & Marine Ecological Classification Standard (CMECS)

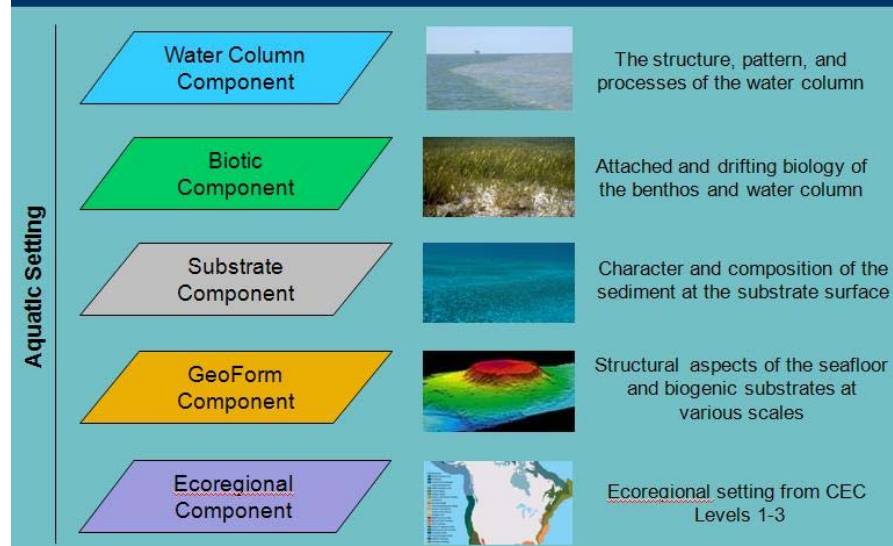
- ◆ Total Public/Peer Review Comments – 853
 - Good technical input and generally well-received
- ◆ CMECS Working Meeting (June 6-10, 2011)
 - Over 250 comments addressed
 - Re-organized component structure in response to comments
 - Resolved major conceptual issues
- ◆ Outreach
 - Special Session and Workshop at CERF 2011
 - Special Session at Coastal Zone 2011
 - CMECS being written into CMSP Strategic Action Plan

◆ Pilots

- Coastal California
 - Coastal Oregon
 - Hudson Canyon
- FGDC endorsement – targeting February 2012



Current CMECS Structure (6/11)



Recent Developments - Coordination

◆ Interagency Working Group on Ocean and Coastal Mapping

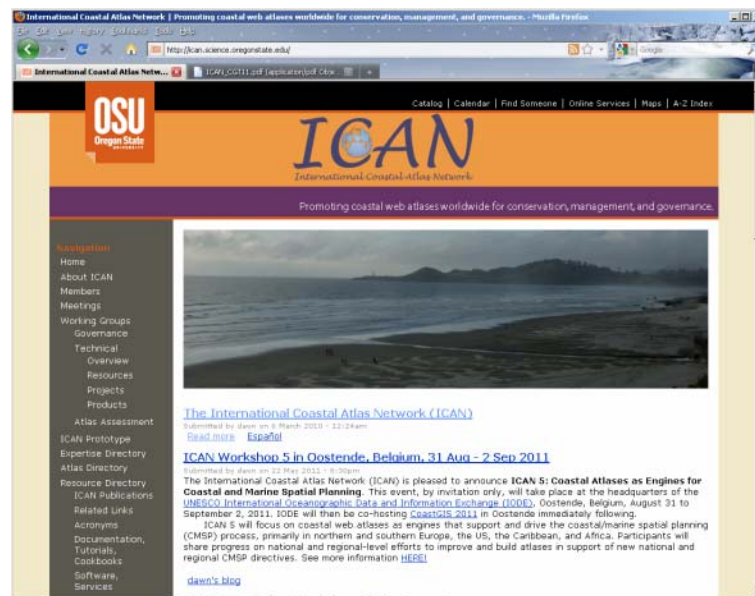
- Co-chaired by NOAA, USGS, and USACE
 - ◆ Will be transitioning to IC-OCM: Interagency Committee on Ocean and Coastal Mapping
 - ◆ Serve on writing team for NOP Strategic Action Plan #9: Observations, Mapping, and Infrastructure
- Facilitates
 - ◆ Coordination and leveraging of OCM activities and resources across the Federal sector and with state, industry, academia, and NGOs
 - ◆ Development of standards for data acquisition, metadata, tools, and products
 - ◆ Access to and use of OCM data
- Developing Ocean and Coastal Mapping Inventory
 - ◆ Clearinghouse for OCM mapping data and interpretive information: Initial focus on main Federal repository mapping data for planned August 2011 prototype
 - ◆ Workshop held on June 7-8, 2011 – considerable opportunity for alignment across IWG-OCM, CMSP, and GOS/Data.gov efforts



Recent Developments - Coordination

◆ International Coastal Atlas Network (ICAN)

- Mission of ICAN is to share experiences and find common solutions in Coastal Web Atlas development while ensuring maximum relevance and added value for the end users
 - ◆ *User and developer guides, handbooks and articles on best practices, information on standards and web services, expertise and technical support directories, education, outreach, and funding opportunities*
- International partnership of academic community with multiple levels of government – 51 members from 16 countries
- Coastal web atlas and regional information systems supporting a range of management and planning focus areas
 - ◆ CMSP
 - ◆ Climate impacts and coastal resiliency
 - ◆ Resource availability and exploitation
- ICAN 5 scheduled for August 31 – Septembers 2



Next Steps

- ◆ High-priority focus areas for MCSD Subcommittee:
 - Release NIMS prototype in August 2011; continue in development of full NIMS by 2013
 - Receive FGDC endorsement of CMECS standard
 - Participate in the A-16 Supplemental Guidance test-bed activities



Questions?

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