

Monday, February 6, 2017: 8:30 to 11:30 a.m.

Session 1: Mapping Coastal Inundation: Keeping Current with New Data, Trends, and Methods

Description

Understanding the location and extent of flooding is critical to community preparation and response. This session focuses on the technical components of inundation mapping, including integrating new data, methods, and approaches for predicting local scenarios and flooding frequency. The session provides an informative yet hands-on approach to keeping current with inundation-mapping topics and local scenarios in an uncertain climate. Technically driven and informative, this special interest meeting will provide relevant information for coastal managers and technical-mapping staff members alike. The session will include lectures and live mapping demonstrations that are at the core of the Office for Coastal Management's products, tools, and services, including the widely used NOAA Sea Level Rise Viewer.

Topics covered include information on and live demonstrations of the following:

- An overview of many of the office's products and services
- Updates to climate-related inundation science, including local sea level rise scenarios
- Finding and integrating new elevation data
- Using updated VDatum tidal surfaces to account for tidal variability in mapping products
- Mapping sea level rise and uncertainty using local scenarios in a GIS
- Examining the increase and frequency of coastal flooding using water level data

Session 2: Using the NOAA Coastal Geospatial Services Contract

Description

The Coastal Geospatial Services Contract (CGSC) vehicle provides a fast and easy way for governmental entities (local, state, or federal) to acquire geospatial services from the private sector. This session will give participants the information necessary to begin the contracting process using the CGSC. Services provided through this contract include elevation and imagery data acquisition, thematic mapping, photogrammetric and orthophotography production, survey and control services, GIS services, and geospatial training. The contract, a Federal Acquisition Regulation (FAR) Part 36 architectural and engineering vehicle, is made up of five individual prime contracts, including Dewberry, Fugro Geospatial, Quantum Spatial, Tetra Tech, and Woolpert. Each of the five contracts share a \$49 million maximum ceiling over the life of the five-year contract. The contract is managed by the NOAA Office for Coastal Management in Charleston, South Carolina. Staff members are available to help customers develop statements of work, perform quality assurance and quality control, engage with stakeholders, and host data and products. All data and tools acquired and developed through this contract are included in the Digital Coast.

Topics covered include overview information and live demonstrations:

- Overview of the contract and process for working with NOAA Office for Coastal Management
- New technologies available from the prime contractors to assist in coastal management
- Examples of projects that demonstrate the breadth of services provided through the CGSC

Session 3: Applying the Coastal and Marine Ecological Classification Standard: Best Practices and User Experiences

Description

The Coastal and Marine Ecological Classification Standard (CMECS) is being adopted and applied by a growing number of federal, state, and academic organizations. CMECS is increasingly recognized as a powerful framework for organizing environmental information at scales ranging from local to regional, and a growing community has applied CMECS and is well positioned to share experiences and inform planned updates to the standard. Despite the growing use of the standard, knowledge of best practices regarding spatial data is still limited. The objectives of this special interest meeting are to share information among participants and to gather feedback from users on next steps for CMECS implementation and recommendations on applying CMECS. Both should help advance the impact of the standard and empower future users to learn from each other. This information exchange will help achieve training objectives listed in the Northeast Regional Ocean Council's Habitat Classification and Ocean Mapping (HCOM) Committee work plan for fiscal year 2017.

Topics covered include overview information and live demonstrations:

- Current best practices for applying CMECS
- Examining representative data sets
- Sharing feedback from users
- Interactive discussion about lessons learned in specific projects

Monday, February 6, 2017: 1:00 to 4:00 p.m.

Session 4: Developing Marine Life and Habitat Data to Support Regional Ocean Planning, Ocean Data Portals, and Ecosystem-Based Management

Description

As of fall 2016, regional ocean plans in the Northeast and Mid-Atlantic were about to be submitted to the National Ocean Council, the only two in the nation to reach this stage. Each plan is the culmination of years of effort to assemble data on ocean resources and uses. Both regions previously established Ocean Data Portals to house this information and support analyses and decision-making associated with ocean planning. An unprecedented amount of

marine life and habitat data were developed for these plans. The process to develop these data leveraged years of existing mapping and modeling work, and included additional syntheses and several rounds of expert and agency review. Work to develop marine life and habitat data to support ocean planning in the Northeast and Mid-Atlantic is ongoing, especially as these two regions focus on implementing ecosystem-based approaches to planning and decision-making. This session will bring together groups and individuals that have interest and experience in developing marine life and habitat data and facilitating their use in ocean planning, management, and decision-making. Initial presentations from partners will provide participants with the background and context for understanding the process of data development and considerations for data portal integration. The rest of the session will be interactive and include demonstrations, a case study, and a Q&A session.

Topics covered include the following:

- Share an overview of what has been accomplished to date in marine life and habitat data development
- Share lessons learned from participating in data portal management and ocean planning
- Discuss the considerations for and challenges of preparing marine life and habitat data for sharing with decision makers and the public to support ocean planning and ecosystem-based management, as well as sustaining data portals and their contents in the future
- Obtain both general and specific advice from participants on how ocean-portal data products and features can be further developed to better support regional ocean-planning needs

Session 5: Mapping Coastal Inundation: Keeping Current with New Data, Trends, and Methods

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Session 6: Make Social Media Work for You

Description

The world of social media can be an overwhelming landscape to navigate. However, becoming social-media savvy can raise your stock as a coastal professional. This powerful tool can connect you with your coastal colleagues, going beyond the traditional groups of conference attendees and scientific journal readers. As with any tool, though, social media can be used in both good and bad ways. The Internet is wide open, and what you post is not private—you should always think before you post. When used with discretion, social media can work for you in ways that previous technology could not. This session will dive into tips and tricks to effectively use social media to share research and information, with the goal of building your professional brand and gaining recognition from your peers as an expert in the coastal realm.

Topics covered include information on and live demonstrations of the following:

- Overview of Personal Branding
- Discussion of Social Media Basics
- Details on Twitter, Facebook, and LinkedIn

Session 7: Building Digital Coast Applications for Community Rating System Support

Description

At the 2015 GeoTools conference, NOAA's Office for Coastal Management organized a special interest meeting that explored the application of Digital Coast tools and data to the Federal Emergency Management Agency (FEMA) Community Rating System (CRS) using case studies, breakout groups, and tool demonstrations. Since that time, several Digital Coast partners and collaborators have gone on to develop specific applications addressing several different activities within the CRS. The goal of this special interest meeting is to highlight applications developed by both the Office for Coastal Management and its partners and solicit feedback from the participants in how these products could be improved and applied.

Topics covered include information on and live demonstrations of the following:

- Office for Coastal Management's Open Space Preservation How-To: a Digital Coast resource that provides a GIS workflow and guidance for addressing the open space activity of the CRS
- The Nature Conservancy's Community Rating System Explorer: an app embedded within the Coastal Resilience tool that enables communities to produce exportable documents to support their application for CRS credits and help prioritize future open space preservation areas

- Association of State Floodplain Managers and Coastal States Organization's Green Guide: a guide that features best practices and case studies derived from interviews with top-scoring CRS communities around the nation
- Climate Central's Surging Seas: a web tool and guide that can be used to earn CRS credit as a source of information on localized flooding and for floodplain management planning