

SC's 2011- 2015 Assessment and Strategy

CZMA Enhancement Grants

Marvin Pontiff, Assistant Deputy Commissioner



1987 South Carolina Blue Ribbon Committee on Beachfront Management



- Appointed by Coastal Council in 1987
- 25 members: gov't, private, academic
- Asked to propose long-term solutions to beach erosion issues; balance public/private interests
- Found ~ 57 miles “critically eroding”
- Cited sea level rise, development encroachment, and lack of beach mgmt. planning as major concerns
- Recommended changes to the 1977 SC Coastal Tidelands and Wetlands Act

➤ **1988 Beachfront Management Act**

SC Shoreline Change Initiative

- **20 years later, revisiting work of 1987 BRC**
 - Ongoing conflicts, upcoming State Beach Plan update
- **2006-2010 5-Year Strategy**
 - Shoreline Change Advisory Committee
 - Revisit Shoreline Management Strategies/Policies
 - ID Information and Research Priorities
 - Fund (and partner on) related research
 - Expand GIS/Technical Capacity
 - Increase Assistance to Local Governments

Research Activities

- **Shoreline Change “State of Knowledge” Report**
 - *Tidewater Environmental*
 - Synthesis of SC research and research priorities
- **Analysis of Past Beach Renourishment Projects**
 - *SCDNR*
 - “Meta-analysis” of past beach renouishment projects
- **Analysis of State Shoreline Management Policies**
 - *Strom Thurmond Institute of Gov’t and Public Affairs*
 - Examined perceived barriers to, and opportunities for, shoreline retreat

Research Activities

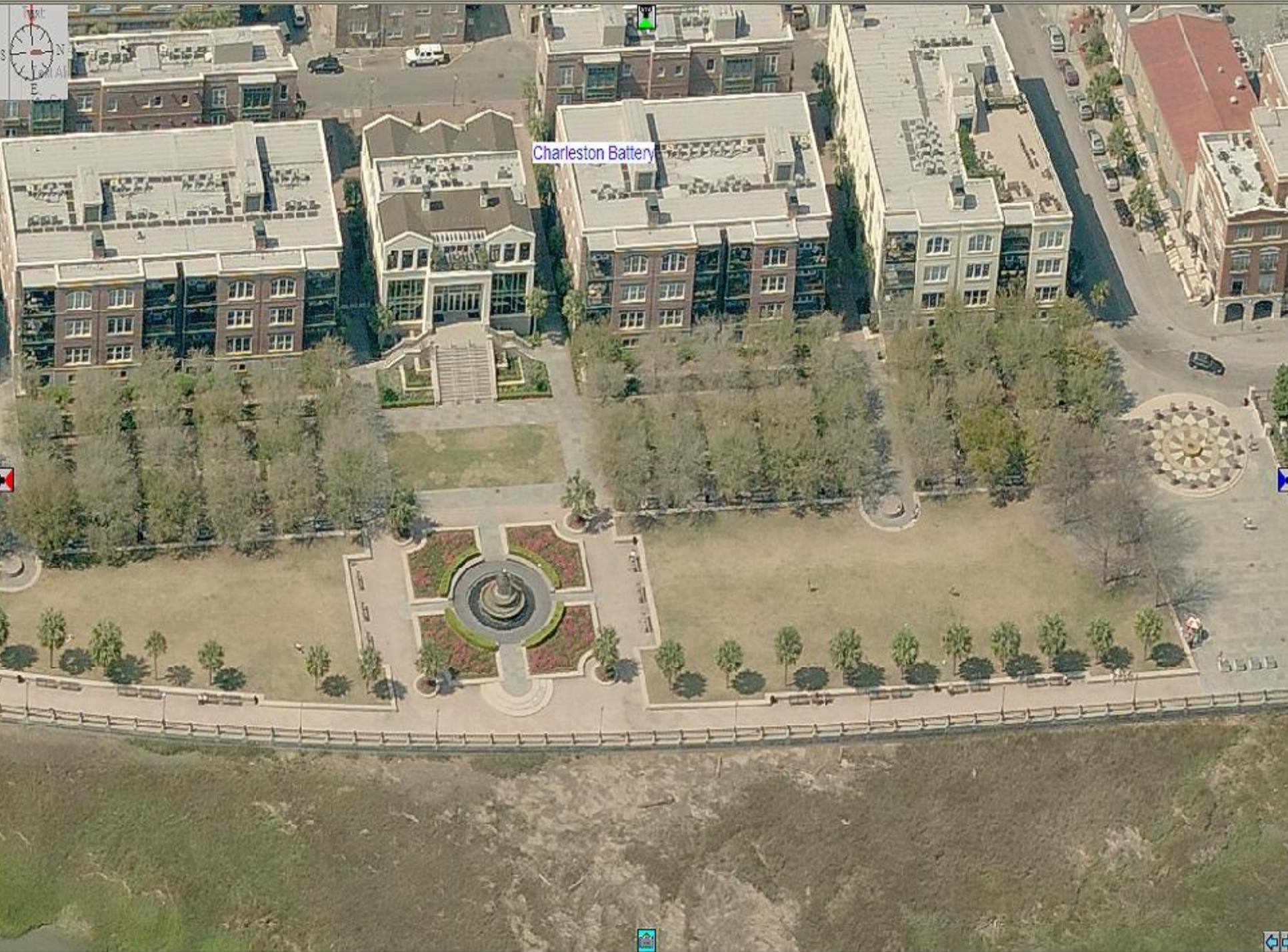
- **Re-evaluating Beachfront “Long-Term Erosion Rates”**
 - *College of Charleston*
 - Considering additional historical images and data, new methods and technologies for assessing erosion rates, and role of beach renourishment in calculations.
- **NOAA Coastal Management Fellowship**
 - 2007-2009 Funding Support from NOAA
 - Supporting the Shoreline Change Advisory Committee

Research Activities

- **Pictometry ® Imagery**
 - Purchasing license agreement for coastal imagery acquired by local governments in the coastal zone
 - Regulatory functions, enforcement, shoreline inventories, etc.



Charleston Battery



Research Activities

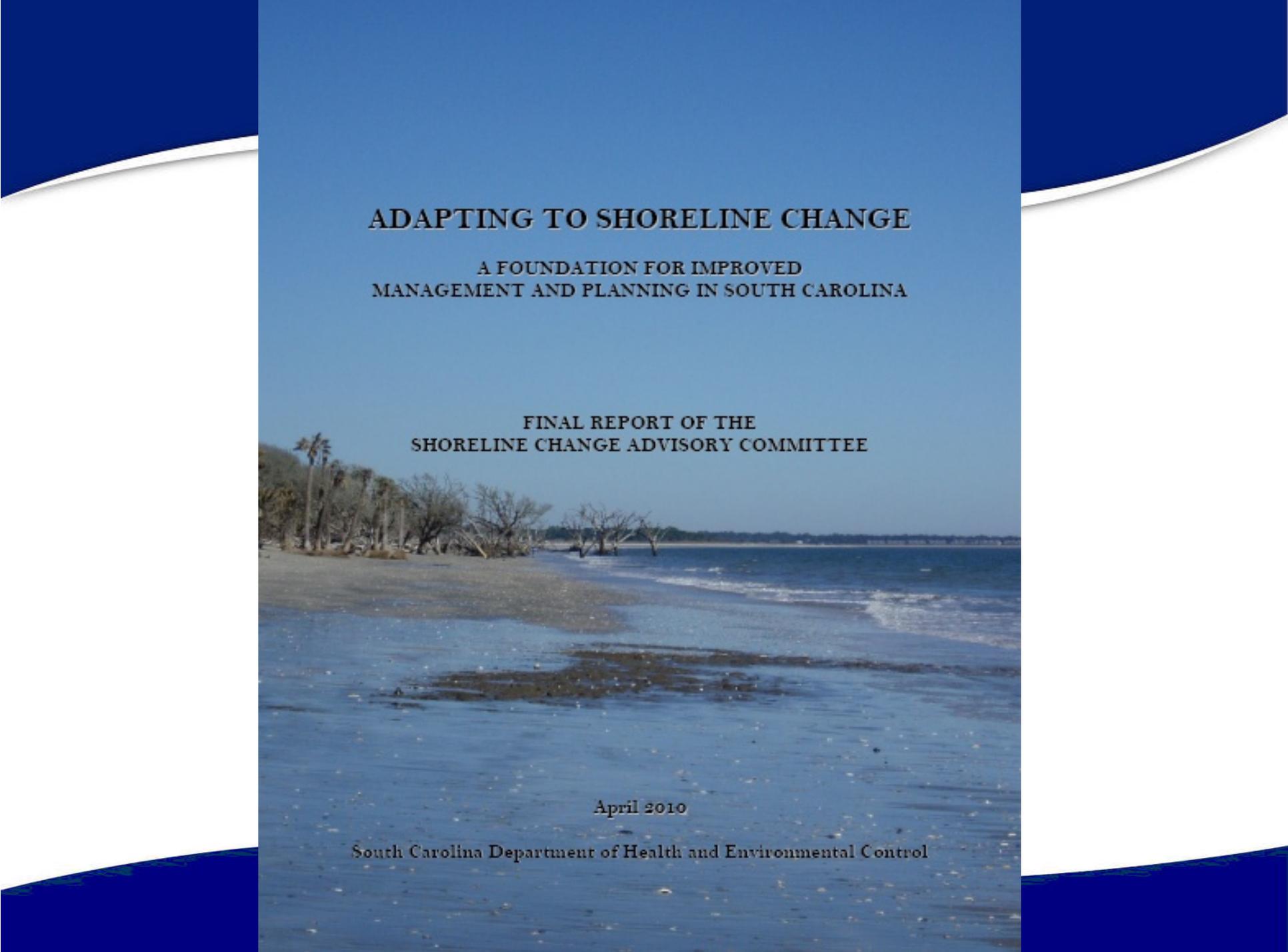
- Pictometry ® Imagery
 - Purchasing license agreement for coastal imagery acquired by local governments in the coastal zone
 - Regulatory functions, enforcement, shoreline inventories, etc.
- **Expanding OCRM Technical Capacities**
 - Establishing a dedicated server and database system to collect, edit, and analyze spatial and non-spatial data, and provide enhanced access and analysis tools
 - Recent “OCRM GIS Strategy”...

Continuing Research Activities

- **Estuarine shoreline mapping and inventory**
 - *SCDNR Geological Survey*
 - Based on MD/VA “Shoreline Situation Reports,” and recent progress in NC & GA
 - Help guide OCRM decisions on appropriate erosion control
 - Assist local governments with shoreline planning
 - Help OCRM track long-term changes and cumulative impacts
- **Estuarine Shoreline Buffers – SOK Report**

Assistance w/ Local Beachfront Planning

- **Developed renewed (Interim) Guidelines for Local Comprehensive Beach Mgmt. Plans**
- **Ongoing assistance to local communities with local beach plan updates**
 - Isle of Palms (completed)
 - HHI (completed)
 - NMB (ongoing)
 - Edisto (ongoing)
 - Pawley's Island (near completion)



ADAPTING TO SHORELINE CHANGE

**A FOUNDATION FOR IMPROVED
MANAGEMENT AND PLANNING IN SOUTH CAROLINA**

**FINAL REPORT OF THE
SHORELINE CHANGE ADVISORY COMMITTEE**

April 2010

South Carolina Department of Health and Environmental Control

Shorelines Website

SCDHEC: OCRM Science & Policy - Microsoft Internet Explorer

File Edit View Favorites Tools Help

Address http://www.scdhec.gov/environment/ocrm/science/shoreline_comm.htm

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OCRM - Science and Policy

Shoreline Change Initiative

In 2007, DHEC-OCRM initiated a Shoreline Change Initiative to organize existing data collection and research efforts, identify additional research needs, and formulate policy options to guide the management of South Carolina's estuarine and beachfront shorelines.

Shoreline Change Advisory Committee

The Shoreline Change Advisory Committee is an integral part of DHEC's multi-year Shoreline Change Initiative. Comprised of a broad cross-section of coastal stakeholders, the committee will begin to organize existing shoreline research, identify research priority needs and explore policy options to ensure the long-term sustainability of our state's coastal resources. The committee will meet regularly and conclude its business in late 2008. Public comment will be received at scheduled meetings at the beginning and end of the committee process. Written comments will be accepted on an ongoing basis.

Written comments may be submitted via email to davisbc@dhec.sc.gov or via surface mail to:

Braxton Davis, Ph.D.
SCDHEC-OCRM
1362 McMillan Ave.
Suite 400
Charleston, SC 29405

Background

Twenty years ago, a "blue ribbon panel" was convened by the former South Carolina Coastal Council (now SCDHEC-OCRM) to address what was considered a "crisis" situation involving our beaches. Recognizing the threats of chronic erosion, gradual sea level rise, increased shoreline development, and a lack of comprehensive beachfront planning and management, the panel developed recommendations that provided guidance to state regulators and legislators in developing state beach management policies. Most of their recommendations were adopted into law through the Beachfront Management Act of 1988. Over the past two decades, the Beachfront Management Act and associated regulations have significantly limited development and hard stabilization of the

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http://www.scdhec.gov/environment/ocrm/science/shoreline_comm.htm

Next 5 Years of “Coastal Hazards”

- **Shoreline Policy and Regulatory Development**
 - New Blue Ribbon Committee on Shoreline Management (2011)
- **Update and approval of the State Beach Mgmt. Plan**

SC Ocean Planning Work Group



NOAA Coastal Services Center
LINKING PEOPLE, INFORMATION, AND TECHNOLOGY



Ocean Planning for SC



(Horns Rev wind farm, Denmark - Photo from WHOI Oceanus)

Ocean Resource Issues:

- Sand Resources
- Offshore Energy
- Ocean Outfalls
- Dredging/Dredged Material disposal
- Ocean Education/Outreach
- Ocean Monitoring
- Research & Mapping Priorities
- Aquaculture/Living Mar. Resources

SC Ocean Planning Initiative

- **2006-2010 5-year Strategy/Work Plan**
 - Ocean Planning Work Group
 - ID Information and Research Priorities
 - Develop State Ocean Report for South Carolina
 - Fund (and partner on) related research/data collection

Workshop-Oriented Ocean Report

- 2008
 - Ocean Mapping Workshop
 - Submerged Lands/Public Trust Doctrine Workshop
- 2009
 - Ocean Monitoring Workshop
 - Regional Sediment Management Workshop
- 2010
 - Alternative Energy Workshop
 - Dec. 2: Living Marine Resources Workshop

Research Activities

- Public Perceptions Survey (USC/IPSPR)
 - General perceptions of ocean resource status and issues
- USC Joint Faculty Position
 - Marine monitoring programs
 - Aquaculture research and interviews
- Grant from National Sea Grant Law Center
 - Coastal Law Fellowship examining public trust case law & submerged lands leasing issues for SC

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SOUTH CAROLINA OCEAN REPORT

**A FOUNDATION FOR IMPROVED
MANAGEMENT AND PLANNING IN SOUTH CAROLINA**

DRAFT

**DRAFT REPORT OF THE
SC OCEAN PLANNING WORK GROUP**

Financial assistance provided under Cooperative Agreement NA08NOS4190423 by the Coastal Zone Management Act of 1972, as amended, administered by the Office of Ocean and Coastal Resource Management, National Oceanic and Atmospheric Administration.

Next 5 Years of “Ocean Resources”...

- **Focus on “Marine Spatial Planning”**
 - *Ocean Mapping Advisory Committee*
 - OCRM, SG, DNR, CSC, NCCOS, RPI, Universities
 - Mapping strategy (integration, web presence, user knowledge)
 - *Stakeholder Advisory Committee*
 - Guides process, feedback
 - Hosts regional “community leaders discussion forums”
 - *Ongoing interactions with SAA*
 - *State MSP/Leasing MOA for presentation to DHEC Board*