CLIMATE SCIENCE
IN SUPPORT OF COASTAL MANAGEMENT
January 10 – 11, 2012
Francis Marion Hotel
Charleston, SC

AGENDA

Workshop Purpose: Explore linkages between *climate change science and modeling* and climate-service types of decision support, focused on coastal vulnerability-reduction in the East Coast and Gulf Coast of the U.S.

Meeting Objectives:

- Provide current knowledge of climate impacts
- Describe challenges to coastal management of assessing vulnerabilities to climate impacts
- Discuss the availability of methods, guides and resources to facilitate the incorporation of climate impacts into existing planning and decision-making processes.
- Explain the gaps between knowledge of climate impacts and adaptation actions and evaluate the contribution of climate change science and modeling to address that gap.
- Invite feedback on the draft findings of the National Climate Assessment (NCA) coastal sector technical report and identify the key questions the report should address.

Meeting Outputs:

- Guidance on the inclusion of climate impact information into coastal management decision-making processes.
- Insights for climate services in support of coastal vulnerability assessments and management strategies and practices.
- Insights about lessening the potential costs of risk management strategies/protection in coastal areas as climate varies and changes, e.g.: (i) sea and river levee construction and maintenance costs; (ii) beach nourishment; (iii) port upgrade, and (iv) ecosystem services.
- Contributions to portions of the NCA 2013 coastal sector technical report

Tuesday, January 10, 2012

8:00 a.m.	**Arrival and Registration – Calhoun Room**
8:30 a.m.	**Welcome and Workshop Goals** *Margaret Davidson, NOAA Coastal Services Center*
9:00 a.m.	**Workshop Context: Overview of Current Efforts to Develop the Next IPCC Assessment Report** *Roger Pulwarty, NOAA Climate Program Office*
9:30 a.m.	**U.S. East and Gulf Coast Management Concerns** *Moderator: Margaret Davidson, NOAA Coastal Services Center* *Panel:* o *Peter Slovinsky, Maine Geological Survey* o *Carol Collier, Delaware River Basin Commission* o *LaDon Swann, Mississippi/Alabama Sea Grant*
10:45 a.m.	**Break – Drayton Room**
11:00 a.m.	**Breakout Session – Concerns of US East and Gulf Coast Decision-Makers** *Tom Wilbanks, Oak Ridge National Laboratories* Locations: Group 1 - Calhoun, Group 2 - Laurens, Group 3 - Rutledge
12:00 p.m.	**Lunch – Pinckney Room**
1:00 p.m.	**Report Out and Facilitated Discussion** *Tom Wilbanks, Oak Ridge National Laboratories*
1:30 p.m.	**Climate Science and Impact Assessment** *Moderator: Roger Pulwarty, NOAA Climate Program Office* *Panel:* o *Robert Hallberg, NOAA Geophysical Fluid Dynamics Laboratory* o *Abby Sallenger, U.S. Geologic Survey* o *Jayantha Obeysekera, SW Florida Management District* o *Greg Carbone, University of South Carolina*
2:45 p.m.	**Break – Drayton Room**
3:00 p.m.	**Breakout session - Value and Limits of Climate Science for Decision Support in the Coastal Zone** *Tom Wilbanks, Oak Ridge National Laboratories*

Locations: Group 1 - Calhoun, Group 2 - Laurens, Group 3 - Rutledge

4:00 p.m. **User Needs for Climate Science and Services**

- *Paul Scholz, NOAA Coastal Services Center*
- *Tony MacDonald, Monmouth University*

4:30 p.m. **Facilitated Discussion – Bridging the Gap**

Moderator: *Paul Scholz, NOAA Coastal Services Center*

5:00 p.m. **Adjourn**

Dinner on your own

Wednesday, January 11, 2012

8:30 a.m. **Overview of Day Two – Calhoun Room**

Roger Pulwarty, NOAA Climate Program Office

9:00 a.m. **Report-out – Value and Limits of Climate Science for Decision Support**

Tom Wilbanks, Oak Ridge National Laboratories

9:30 a.m. **Case Studies: Application of Climate Science in Coastal Decisions**

Moderator: Adrienne Antoine, NOAA Climate Program Office

A Region Responds to a Changing Climate – the Southeast Florida Regional Climate Change Action Plan
Susanne Torriente, City of Fort Lauderdale

Gulf Transportation Study
Peter Schultz, ICF International

Coastal Adaptation Decision Support Tools for National and Regional Policy Making and Local Planning
Paul Kirshen, University of New Hampshire

11:00 a.m. **Break – Drayton Room**

11:15 a.m. **Insight into the Private Sector**

Moderator: Margaret Davidson, NOAA Coastal Services Center

- *Dan Kreeger, Association of Climate Change Officers*
- *Chris Carmody, GreenPlus*
- *Ben Harper, Zurich Financial Services*

12:15 p.m. **Lunch – Pinckney Room**

1:15 p.m. **2013 National Climate Assessment: Focus on Coastal**

Overview – *Virginia Burkett, U.S. Geologic Survey*
Physical Environment – *Jeff Williams, U.S. Geologic Survey*
SLR Scenarios – *Adam Parris, NOAA Climate Program Office*
Natural Resources – *Carl Hershner, Virginia Institute of Marine Sciences*
Communities – *Tony McDonald, Monmouth University*
Adaptation – *Kristen Fletcher, Coastal States Organization*

Framing of the Issues and Key Questions for the Coastal Sector
Richard Moss, Pacific Northwest National Laboratory

2:30 p.m. **Break – Drayton Room**

2:45 p.m. **Breakouts: Stakeholder Input and Key Questions for Coastal Sector Technical Report**

Locations: Calhoun, Laurens, Rutledge

4:00 p.m. **Next Steps for Climate Science in Support of Coastal Management**
Tom Wilbanks, Oak Ridge National Laboratories

4:30 p.m. **Concluding Remarks**
Workshop Chairs

5:00 p.m. **Adjourn**

5:30 p.m. **Reception with the National Climate Assessment Coastal Sector Technical Team**

<u>Questions for breakout groups</u>

Breakout Session 1

1. Are there other priorities that were not mentioned by the panel?
2. What are the obstacles or barriers in the process of incorporating climate science into management? Why are these detrimental?

Breakout group 2

1. Recap barriers in incorporating science into management from earlier discussions. Did the science panel discussions alter the list?
2. Where can we most effectively work to improve the incorporation of climate science into management?
3. What is needed to make those improvements? How could it be improved? (e.g. changes to type of information, delivery method, timing)