

Communicating at the Edge

Albemarle-Pamlico National Estuary Partnership Symposium

November 20, 2013
New Bern, North Carolina



Climate Adaptation Work Group Members

- East Carolina University
- U.S. Environmental Protection Agency
- APNEP
- N.C. Division of Coastal Management
- N.C. Climate Office
- NC State University
- NC Department of Health and Human Service
- City of Wilmington
- North Carolina Sea Grant

Communicating Changing Coastal Conditions

Target:

Non-formal environmental educators, local planners and local public information officers.

Locations:

April 17 & 18: Elizabeth City

April 30 & May 1: Jacksonville

Planning Committee:

North Carolina Sea Grant

East Carolina University

NCSU - COSEE (Coastal Ocean Sciences Education Excellence)

Workshop Agenda – Day 1

The State of the Science

Jessica Whitehead, S.C. Sea Grant Consortium and N.C. Sea Grant

Responding to Sea-Level Rise

“Incorporating Climate Considerations into Coastal Wastewater Infrastructure Planning and Investment,” Jim Hawhee, Albemarle-Pamlico National Estuary Partnership (Elizabeth City)

“Community Resilience: Adapting to Sea Level Rise,” Phil Prete, City of Wilmington (Jacksonville)

“Adaptation on the Albemarle-Pamlico Peninsula,” Christine Pickens, The Nature Conservancy

The North Carolina Coastal Atlas

Michelle Covi, East Carolina University

North Carolina Sea-Level Rise Legislation Update

Michele Walker (Elizabeth City), N.C. Division of Coastal Management

Tancred Miller (Jacksonville), N.C. Division of Coastal Management

Communicating About Sea-Level Rise – Interactive session focused on risk communication best practices

Donna Kain, and Michelle Covi, East Carolina University

Workshop Agenda – Day 2

A Closer Look at Your Communication Situation

Small group activity to improve understanding of the communication challenges regarding sea level rise

Brainstorming Communication Messages

Participants take information from the previous activity and brainstorm communication messages for their target audiences.

Develop Outreach Materials

Participants begin developing outreach materials for a specific target audience



Elizabeth City Participants

21 attendees:

- 7 local government planners

- 7 informal educators

- 1 emergency manager

- 2 Elizabeth City State University professors

- 2 communicators - NC Sea Grant

- 2 Division of Coastal Management staff



Jacksonville Participants

28 attendees:

- 6 local government planners
- 2 council members - Pine Knoll Shores
- 6 informal environmental educators
- 1 environmental consulting firm (Baker)
- 1 NC Coastal Federation
- 1 Duke University student
- 3 Division of Coastal Management
- 1 Land Trust
- 2 NC-20
- 3 NC Sea Grant staff
- 2 communication specialists



Where will you use what you learned?

- PowerPoint shows for the public on sea level rise.
- Future DCM sea level rise communications, and other coastal hazards communications.
- Education programs, dealing with teachers.
- Stormwater utility presentations.
- Adapting landscape designs and land use regulations to mitigate sea level rise.
- Comprehensive plan updates and small area plans.

Outreach Activities Discussed or Started

Climate change curricula for teachers and students

Local government brochures for residents at risk to sea level rise: on stormwater management, flooding and wetland / riparian area protection (with sea level rise and adaptation education components)

Scientist Communication Survey

Workshop for scientists on how to effectively communicate their research results

Aquarium Pilot Project – Powerpoint for visitors?

Website

www.ecu.edu/riskcomm/SLR/workshop.html

Sea Level Rise Communication in North Carolina

Resources for Educators, Managers and Other Public Information Providers

Home

Workshop Presentations and Materials

Useful Links

Resources

We hope these resources will enable better communication about sea level rise and other changing coastal conditions in North Carolina

In April and May, N.C. Sea Grant, East Carolina University, and COSEE (Centers for Ocean Sciences Education Excellence) hosted two workshops titled Communicating Changing Conditions at the Coast. These workshops were targeted at public information officers, non-formal educators, and land use planners with the objectives of creating a broader network of people delivering and exchanging information on sea-level rise; increasing participants' knowledge of sea-level rise science; and refining participants' skills for communicating about sea-level rise.

Forty-seven people attended the two workshops, including N.C. Aquarium staff, local land use planners, and federal agency staff. Through facilitated breakout groups, workshop participants began to develop communication products. Those products included climate change curricula for teachers and students; climate change training session for aquarium volunteers; brochure on best practices for waterfront development for homeowners; and a workshop for scientists on how to communicate their research.

This project is sponsored by:





Tidal Creek Initiative



2011 SE Tidal Creek Summit Website (with presentations)

<http://www.ncseagrant.org/2011tidalcreekssummit>

Needs For Tidal Systems

- Inventory and Classification Scheme for Tidal Creeks
- Monitoring Protocols
- Communication and Information Transfer with Researchers
- Education for Decision Makers

Tidal Creek- working definition

A natural or manmade water conveyance channel, also referred to as a tidal tributary, bayou, or tidal canal. Tidal influence results in salinity fluctuations caused by the exchange of fresh and estuarine waters. Tidal creeks include intermittent creeks to the point where a major water body is encountered (e.g., river, estuary, ocean).

Tidal Creeks Workgroup Meeting

FEDERAL AGENCIES

Carl Trettin US Forest Service
Jaclyn Daly NOAA-NMFS
Lisa Vandiver NOAA Restoration Center
Brooke James USDA Forest Service

STATE AGENCIES

Jim Gregson NC DENR Water Resources
Diane Reid NC DENR Water Resources
Dr. Peter Kingsley SCDNR Marine Research
Sarah Latshaw SCDHEC-OCRM
Denise Sanger SC DNR Marine Research
April Turner SC Sea Grant Consortium
Rick DeVoe SC Sea Grant Consortium

UNIVERSITY (Research, Teaching & Extension)

Barbara Doll NC Sea Grant
Gloria Putnam NC Sea Grant
Mike Burchell NC State University
Timothy Callahan College of Charleston
Dan Hitchcock Clemson University
Dianne Greenfield USC - Marine and
Coastal Sciences
William Savidge Skidaway Institute -
Georgia

2013 SE Tidal Creek Summit

<http://www.bae.ncsu.edu/workshops/tidalcreeksummit/>



The screenshot shows a web browser window with the URL www.bae.ncsu.edu/workshops/tidalcreeksummit/index.html. The page features a blue header and a main content area with a white background. At the top of the content area is a wide landscape photograph of a tidal creek. Below the photo is the title "Southeast Tidal Creeks Summit" in blue, followed by the location "Hilton Wilmington Riverside Hotel, Wilmington, NC" and the dates "December 16-17, 2013". To the right of the main text is a sidebar with two sections: "General Information" and "Logistics". The "General Information" section includes links for Home, Call for Abstracts, Call for Exhibitors, Important Dates, Agenda, Contact Us, 2011 Summit Documents, and 2013 docs coming soon. The "Logistics" section includes links for Registration, Lodging, Getting to the Conference, and Summit Partners. Below the main text is a paragraph of introductory text about the summit's purpose and a definition of tidal creeks. At the bottom right, there is a "Sponsored by" section with the Sea Grant logo and the names of the sponsoring organizations: North Carolina Sea Grant, SC Sea Grant Consortium, and Georgia Sea Grant.

Southeast Tidal Creeks Summit
Hilton Wilmington Riverside Hotel, Wilmington, NC
December 16-17, 2013

General Information

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Logistics

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Sponsored by

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North Carolina Sea Grant
SC Sea Grant Consortium
Georgia Sea Grant

The second Tidal Creeks Summit has been scheduled for Dec. 16-17, 2013 in Wilmington, N.C. Southeastern communities face similar issues in understanding and managing impacts on tidal creek systems. To begin a discussion of these issues, in 2011, Sea Grant programs from North Carolina, South Carolina and Georgia partnered to organize and sponsor the first summit in Charleston, S.C. The summit was a success, bringing together 140 scientists, resource managers, local governments and non-profit groups to network and exchange research results, programs and ideas relative to tidal creeks. A follow-up survey of the summit attendees indicated that a second summit was critical to further foster collaboration among southeastern states in protecting, managing and restoring tidal creeks.

For our purposes, we are considering a tidal creek to be a natural or manmade water conveyance channel, also referred to as a tidal tributary, bayou, or tidal canal. Tidal influence results in salinity fluctuations caused by the exchange of fresh and estuarine waters. Tidal creeks include intermittent creeks to the point where a major water body is encountered (e.g., river, estuary, ocean). Tidal creeks are ecologically important for their habitat, water conveyance, and nursery areas for the early life stages of resident and estuarine-dependent fish and crustacean species, and economically important for finfish and shellfish.

Thank you!

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Target Audiences

- County, City, Town Staff
Planners, Managers
Utility Managers
Emergency Management
- Local Elected Officials
- Land and Resource Managers
Conservation Lands
Public Lands
- Recreationalists
Tourists, Business
Charter Fishing Fleet
- Informal Educators
Aquaria, Extension, Parks
- Coastal Homeowners
- Real Estate Developers
- General Assembly
- K-12 Teachers