



North Carolina
Coastal Federation
Working Together for a Healthy Coast

2019 NORTH CAROLINA COASTAL RESILIENCE SUMMIT

June 11 and 12, 2019

Havelock Tourist and Event Center

201 Tourist Center Dr., Havelock, NC 28532

Goals of the Summit:

1. Inform the development of the North Carolina Climate Risk Assessment and Resilience Plan required under Governor Cooper's Executive Order 80;
2. Support understanding and preparedness for intensifying coastal hazards, including increased frequency and severity of flooding, increasing extreme weather, changing groundwater conditions, rising sea levels, and other shifting natural conditions;
3. Showcase a range of existing solutions to address the identified challenges.

Draft Agenda

(Some moderators and panelists yet to be confirmed)

Day 1 - June 11, 2019

- 9:00 a.m. **Registration and Networking**
- 10:00 a.m. **Welcome and Background**
Bill Cary, Brooks Pierce — *Welcome and Summit Overview*
Dr. Braxton Davis, N.C. Division of Coastal Management — *Background*
- 10:15 a.m. **State's Support for Development of the Resilience Plan**
Sushma Masemore, N.C. Department of Environmental Quality
Sec. Michael Regan, N.C. Department of Environmental Quality
- 10:30 a.m. **Transitioning N.C. Coastal Communities Towards Resilience**
Tancred Miller/Christian Kamrath, N.C. Division of Coastal Management
- 10:50 a.m. **The Relationship of Climate Change to Coastal Hazard Risk**

Moderator: **Dr. Jess Whitehead**, N.C. Sea Grant

Panelists:

Dr. Doug Marcy, National Oceanic and Atmospheric Administration

Dr. Alex Manda, East Carolina University

Dr. Jess Whitehead, N.C. Sea Grant

12:00 p.m. **Lunch and Networking** (provided)

1:00 p.m. **Resilient Coastal Tourist Communities: Climate Ready Infrastructure and Land and Water Uses**

Moderator: **Wit Tuttell**, Visit N.C. & N.C. Economic Development Partnership

Panelists:

Greg “Rudi” Rudolph, Carteret County

Brian Roth, Town of Plymouth

Dawn York, Moffatt & Nichol

Eugene Foxworth, Carteret County

Rob Young, Western Carolina University

2:15 p.m. **Strengthening our Roots: Maintaining Our Natural and Working Lands Through Nature -Based Active Water Management**

Moderator: **Erin Fleckenstein**, N.C. Coastal Federation

Panelists:

Wilson Daughtry, Mattamuskeet Drainage Association

Kris Noble, Hyde County Manager

Pete Campbell, Mattamuskeet National Wildlife Refuge

Bob Emory, N.C. Department of Environmental Quality Coastal Resources Commission

3:15 p.m. **Break**

3:30 p.m. **A New Mission: Strategies to Reduce Climate Impacts on Military Operations in Coastal North Carolina**

Moderator: **Addie Thornton**, Southeast Regional Partnership for Planning

Panelists:

Dr. Susan Cohen, University of North Carolina Institute for Environment

Hervey McIver, The Nature Conservancy

Addie Thornton, Southeast Regional Partnership for Planning

4:15 p.m. **Below the Surface: Striving to Maintain Climate Ready and Productive Estuaries**

Moderator: **Stacey Feken**, Albemarle Pamlico National Estuarine Partnership

Panelists:

Dr. Carolyn Currin, National Oceanic and Atmospheric Administration

Casey Knight, N.C. Division of Marine Fisheries

Todd Miller, North Carolina Coastal Federation

Steve Weeks, North Carolina Fisheries Association

5:15 p.m. **Open Discussion of Lesson Learned from Day**

5:30 p.m. **Adjourn for day**

5:30 p.m. **Reception**

Day 2 - June 12, 2019

Focus on Solutions that help minimize risks

8:30 a.m. **Keynote: A Post-Event Review of Hurricane Florence in North Carolina: Lessons Learned.**

Rachel Norton, Researcher, Social and Environmental Transition
International working in collaboration with the Zurich Flood Resilience
Program and Zurich North America.

9:00 a.m. **Resilience for ALL During Long-Term Recovery: Reducing Social Vulnerability and Ensuring Environmental Justice**

Moderator: **Penny Hooper**, N.C. Interfaith Power & Light; Croatan Sierra Club;
Commercial Fisher

Panelists:

Veronica Carter, Environmental Justice and Equity Advisory Board; North Carolina
Coastal Federation

Amanda Martin, Southeast Disaster Recovery Partnership; N.C. Office of Recovery
and Resilience

Rev. Robbie Phillips, Carteret Long-Term Recovery Alliance

10:20 a.m.

Break

10:45 a.m.

Helping Nature Help Us: Co-Benefits of Environmental Solutions

Moderator: **Lauren Kolodij**, North Carolina Coastal Federation

Panelists:

Lora Eddy, The Nature Conservancy

Hunter Freeman, Withers & Ravenel

Brian Kramer, Town of Pine Knoll Shores

Burrows Smith, River Bluffs Development Group

Noon

Lunch & Networking (provided)

1:00 p.m.

Smarter Critical Systems & Built Environment: Infrastructure Solutions

Moderator: **Randy Mundt**, N.C. Department of Public Safety

Panelists:

Dr. Barbara Doll, N.C. Sea Grant

Dr. David Salvesen, University of North Carolina Chapel Hill

Lindsay Hallock, Cape Fear Public Utilities Authority

Julie Shiyou-Woodard, Smart Home America

Todd Krafft, Town of Nags Head

2:30 p.m.

Resilience Innovations: Financing Opportunities

Moderator: **Samantha Burdick**, Eastern Carolina Council

Panelists:

James (Jim) Kjelgaard, Natural Resources Conservation Service;
U.S. Department of Agriculture

Liz Harvell, University of North Carolina Environmental Finance Center

Amy Simes, N.C. Division of Water Infrastructure

3:30 p.m.

Break

3:45 p.m.

Synthesis & Next Steps – How to Build Partnerships for Success

Moderator: **Dr. Braxton Davis**, N.C. Division of Coastal Management

Panelists:

Dr. Jess Whitehead, N.C. Sea Grant

Jeremy Tarr, N.C. Office of the Governor

Holly White, Town of Nags Head

4:30 p.m.

Adjourn

BACKGROUND

In Executive Order #80, Governor Roy Cooper directs cabinet agencies prepare a ***North Carolina Climate Risk Assessment and Resiliency Plan*** by March 1, 2020. The plan is intended to guide state agency actions, and help local communities address the consequences of climate change. The goal of the plan is to identify cost-effective strategies to protect human life and health, property, natural and built infrastructure, cultural resources, and other public and private assets of value to North Carolinians. The N.C. Division of Coastal Management is partnering with a diverse group of coastal community stakeholders to convene a summit to highlight and evaluate the utility of potential strategies that could be included in the state's plan, especially as it applies to the coast of North Carolina.

Audience: Government agencies, state and local elected officials, appointed policy-makers, community members, non-profits, academic community.

Program Focus on Potential Policy and Management Measures to Address Identified Risks

Summit participants will identify coastal climate risks and what potential policy and management strategies might be included in the resiliency plan. These may include:

- Prioritizing the current and anticipated climate risks to the coast that will need to be addressed in the resiliency plan.
- Policy and management lessons learned from recent extreme weather.
- Evaluating the strengths and weaknesses of existing and potential policies and management measures that address climate risks to coastal communities and the environment.
- Identifying and evaluating the cost-effectiveness of potential mitigation and adaptation strategies and practices that the plan might include.
- Determining research and policy gaps that need review and analysis.

It is anticipated that the following specific strategies will be explored:

Policy Options

- Community development incentives, actions and policies that build climate resilience for socially vulnerable populations (public health, affordable housing, economic/workforce development).
- Integrating climate risk and resiliency into planning for long-term infrastructure including drinking water supplies, wastewater/sewage, communications, energy and transportation.
- Grants, fees, building and flood plain development standards.

Management Activities

- Barrier island beach and inlet management.
- Estuarine shoreline management.
- Floodplain management.
- Active water management in low-lying lands to minimize flooding, droughts and water pollution.
- Adapting coastal stormwater management and sewage treatment strategies to address rising groundwater and sea levels.