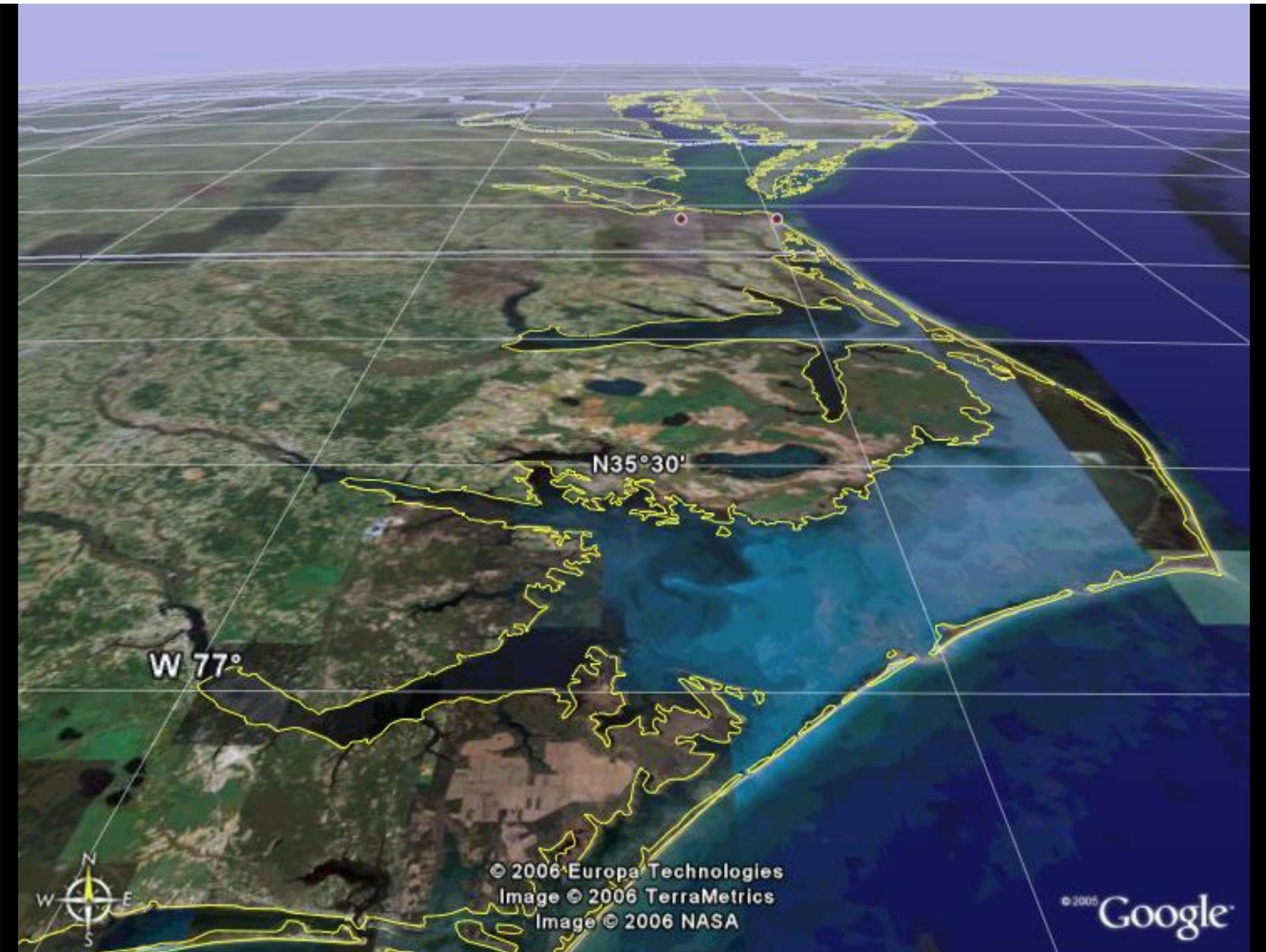




**Communicating
About Climate Change:**

**Getting
to
Know
Your
Neighbors**

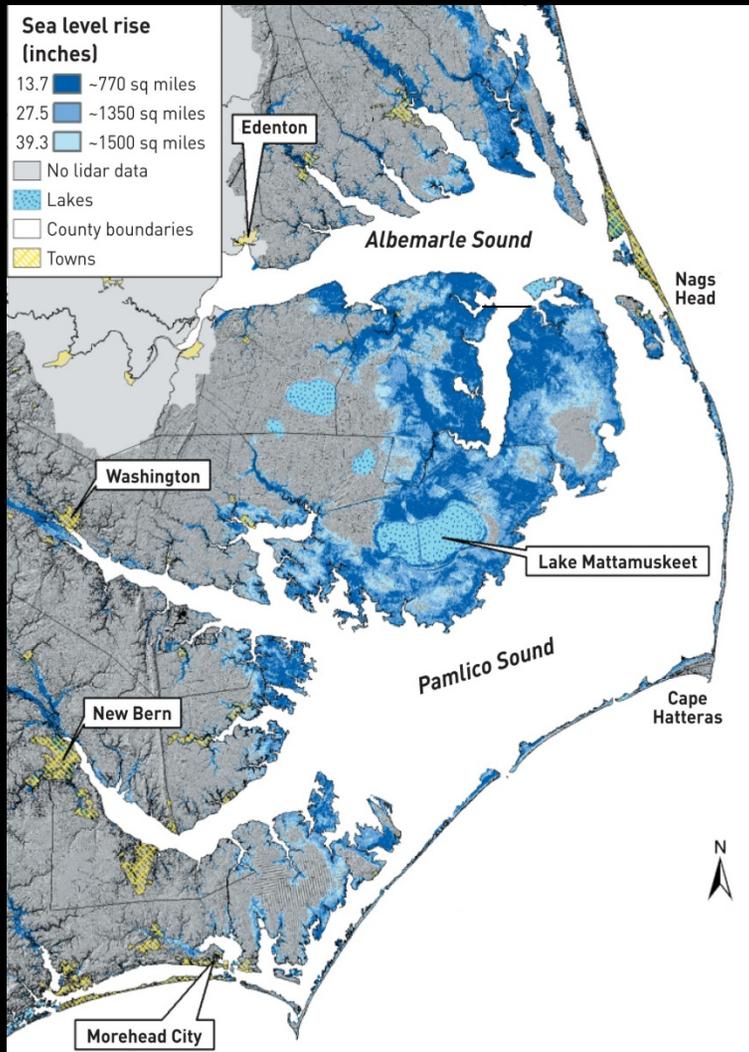
**Bill Crowell
Director
Albemarle-Pamlico
National Estuary Program**





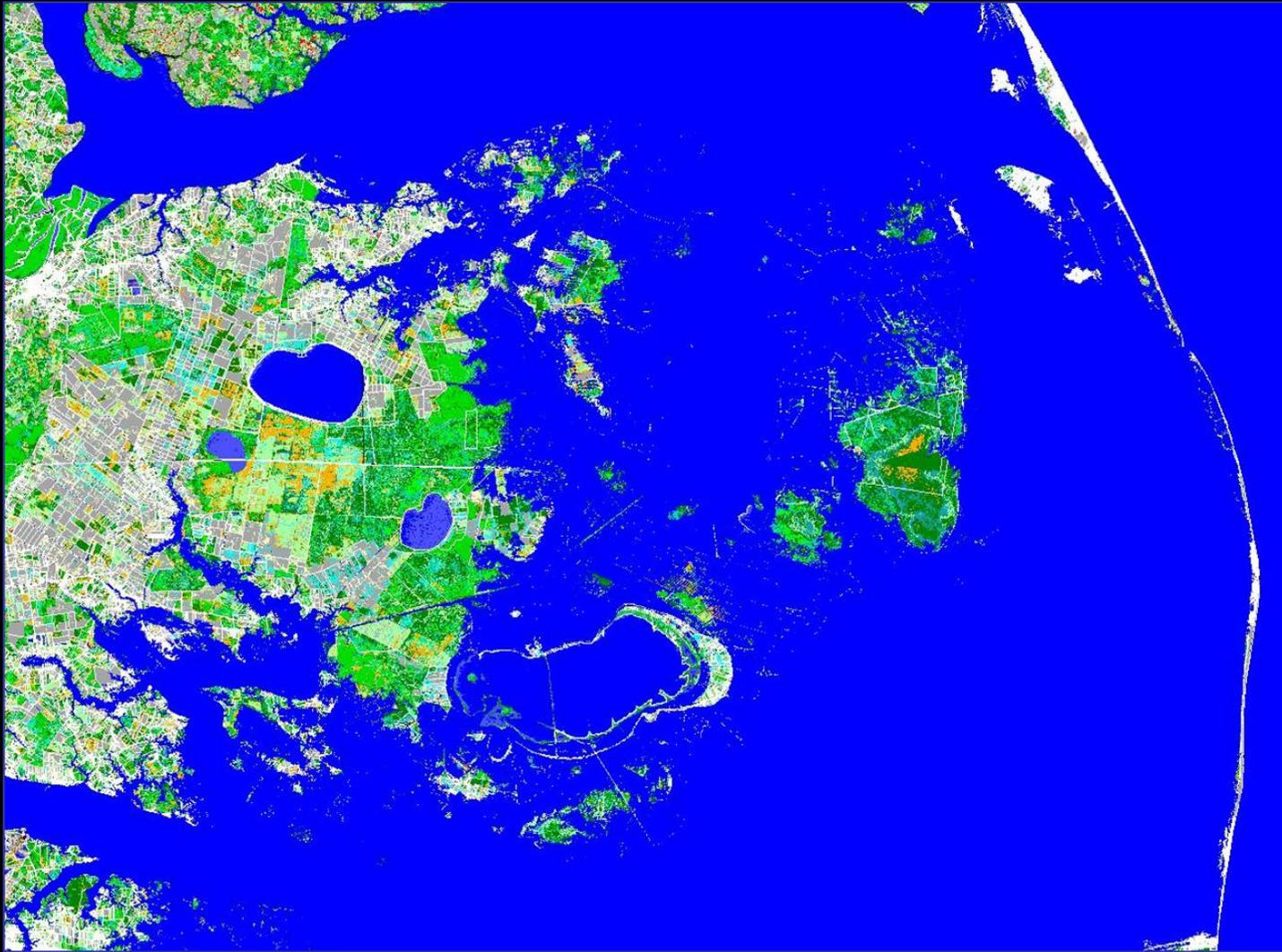
A one-foot rise in sea level can cause inland movement of the shoreline by 2,000 to 10,000 feet along the relatively flat North Carolina coast.



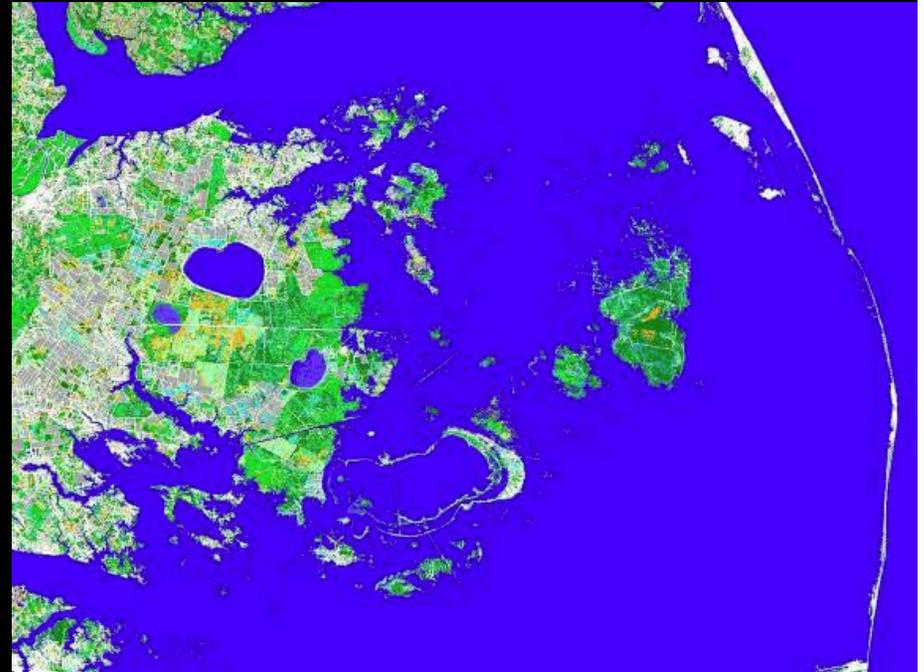


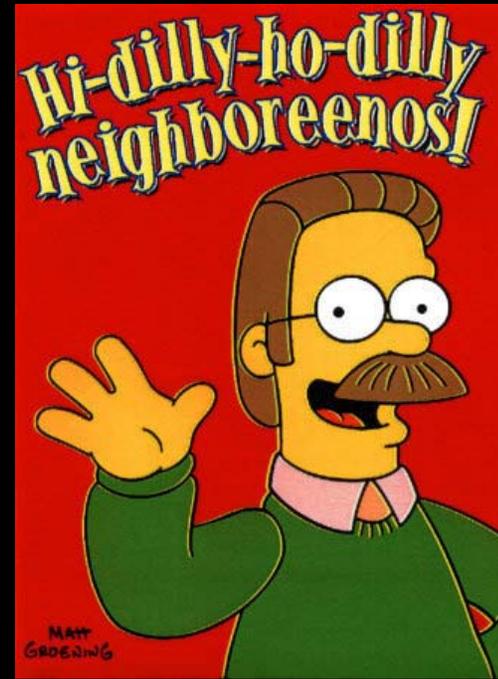
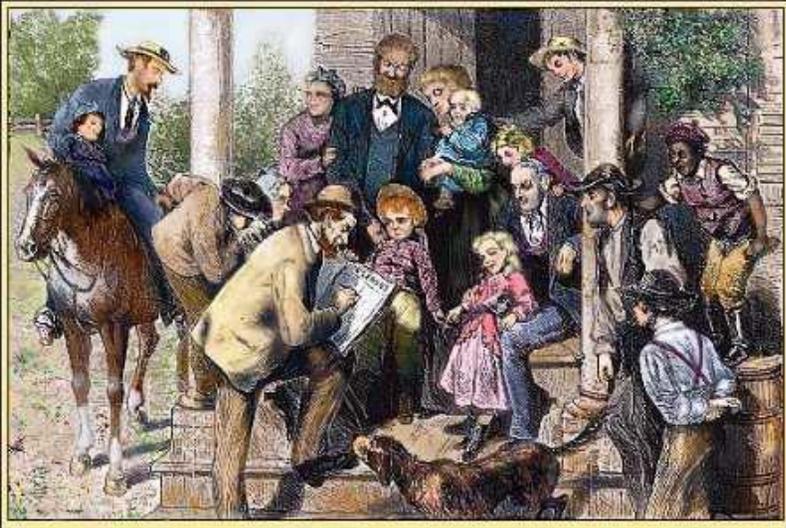
Source: Ben Poulter, Duke University, and Sam Pearsall, The Nature Conservancy, 2003

At the present rate, a million acres will be under water in about 200 years. The rate is expected to increase.

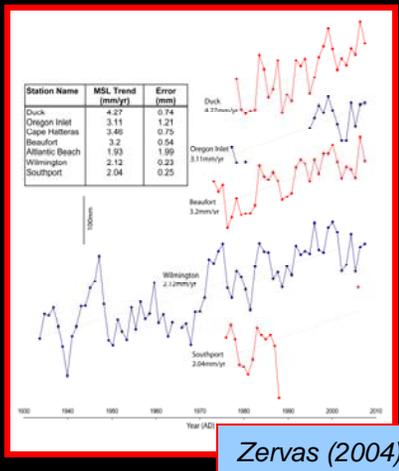
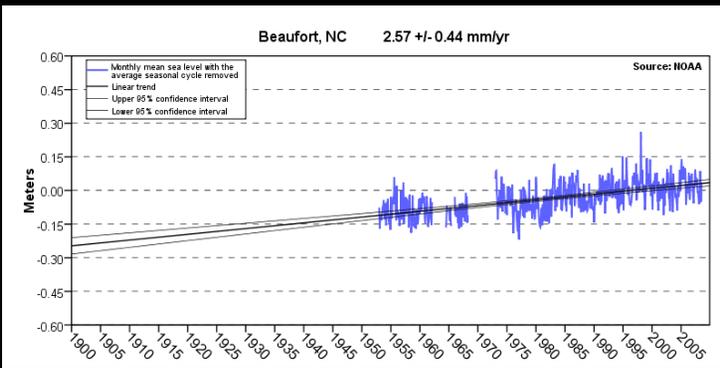
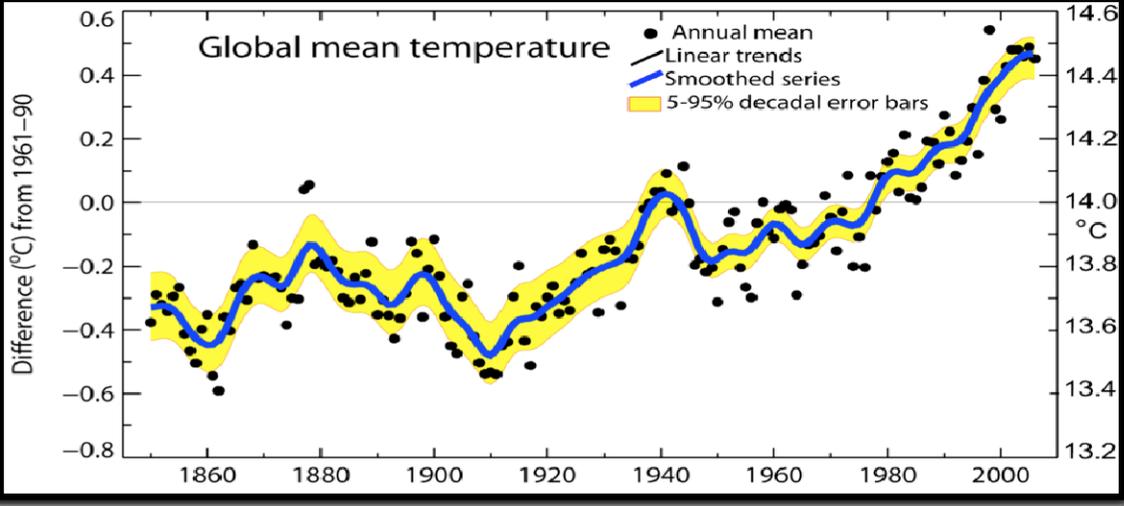
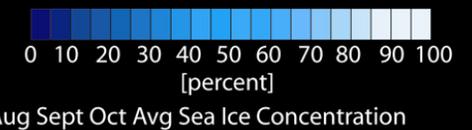
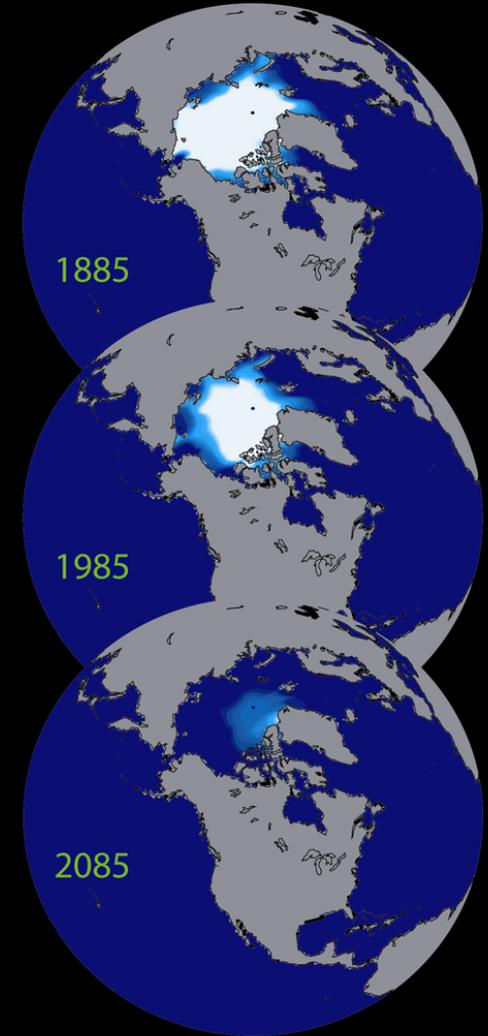


Poulter (Duke) & Zganjar (TNC)

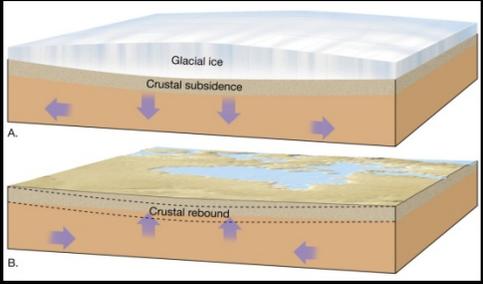
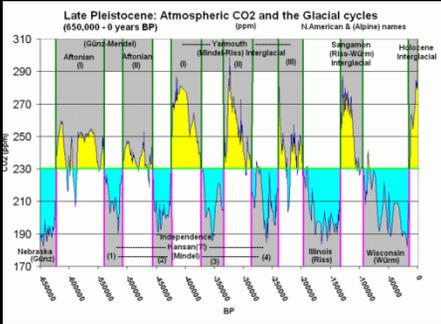




NOAA GFDL CM2.1 Model Simulation



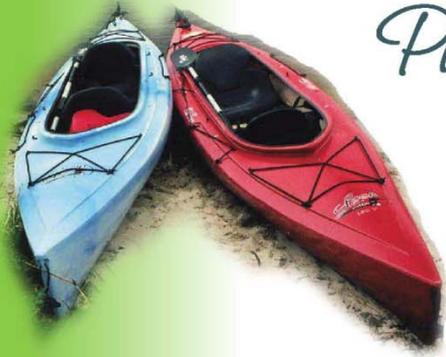
Zervas (2004)





Sea Level Rise and Population Growth Public Listening Session Locations in the Albemarle-Pamlico Watershed





Public Listening Sessions:

Sea Level Rise and Population Growth in North Carolina



Report

Co-sponsored by:
The Albemarle - Pamlico Conservation
and Communities Collaborative

&

The Albemarle - Pamlico
National Estuary Program



APNEP.org



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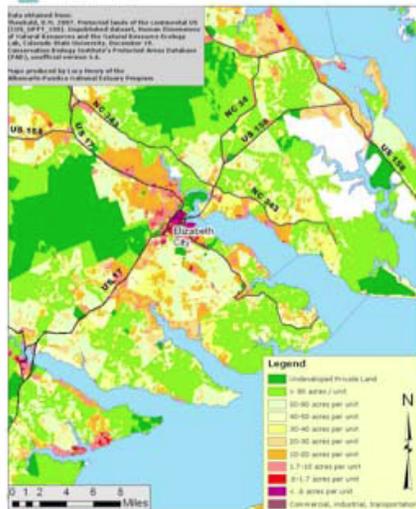


Elizabeth City, NC

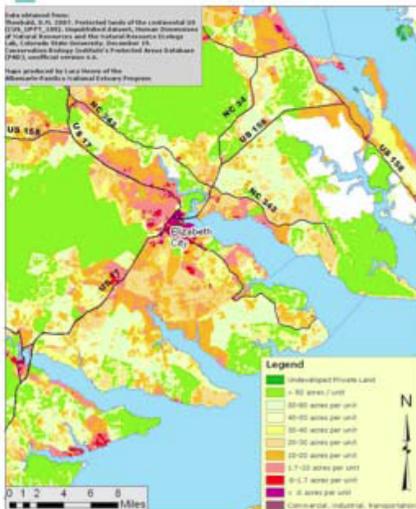
1970 Housing Density



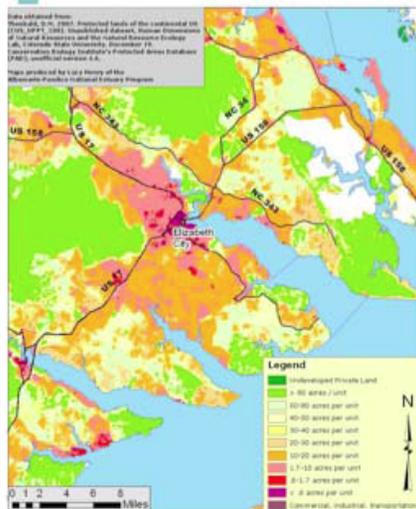
1990 Housing Density



2010 Projected Housing Density

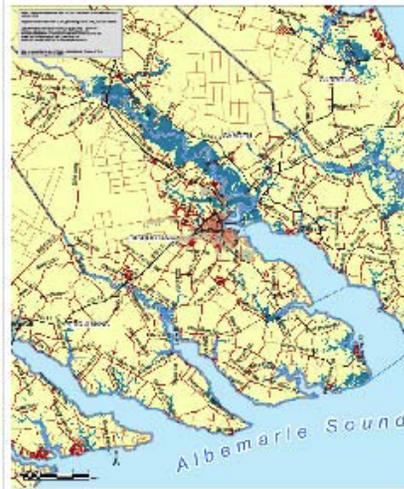


2030 Projected Housing Density

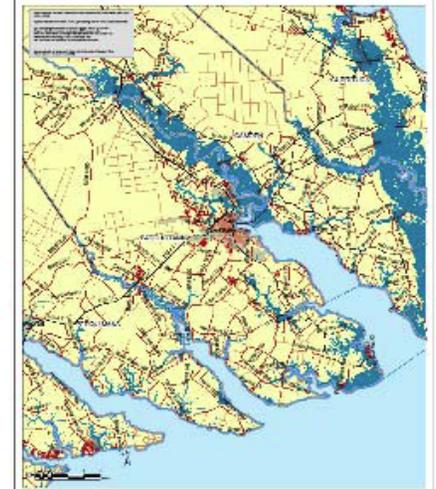


Elizabeth City, NC

Potential Inundation at or below Sea Level



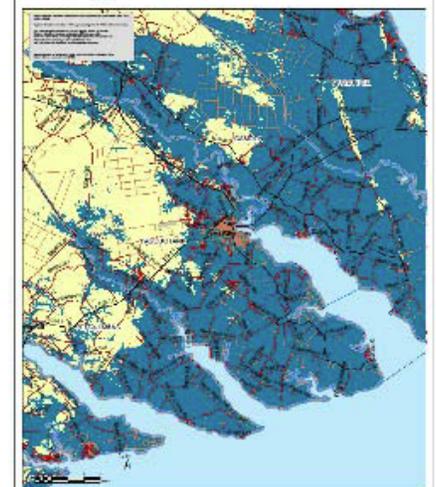
Potential Inundation at 1 foot Sea Level Rise



Potential Inundation at 5 foot Sea Level Rise



Potential Inundation at 10 foot Sea Level Rise



1_ What changes are you seeing and experiencing in your communities and in your environment?

2_ What do you think the impacts of these changes will be on your community, as they relate to sea level rise and population growth?

3_ What do you think are some of the solutions to these issues?

“I’ve seen 35 to 40 feet of Albemarle Sound washed away...where I used to go to the beach as a kid, there’s no beach any more,”

Alonzo Leary
Resident, Washington County

“We are losing farmland. It’s a gradual, creeping thing,”

Mac Gibbs, Agricultural Extension Agent
Hyde County.

Recommendations

- Improve outreach to underprivileged communities about the implications of sea level rise. Meet people where they are, in their churches, community groups and associations in order to educate them about these issues.
- Encourage the incorporation of sea level rise education in the Institute of Government curriculum.
- Reach out to local governments about the impacts of sea level rise and the concerns of their constituents.
- Develop educational materials for schools so science teachers can incorporate discussion about sea level rise and climate change in their curriculum.
- Provide coastal residents who have an interest in taking action, with the materials from the listening sessions so that they can hold discussions in their own communities

“Very fair w/a diverse group”

“We all got to share our ideas”

“Great format of open floor, combined with offering each participant the opportunity to contribute”

“Everyone certainly got to speak and yet it was still democratic and not dominated by few”





Submerged Cypress at the Mouth of the Roanoke River (Carl Galie)