

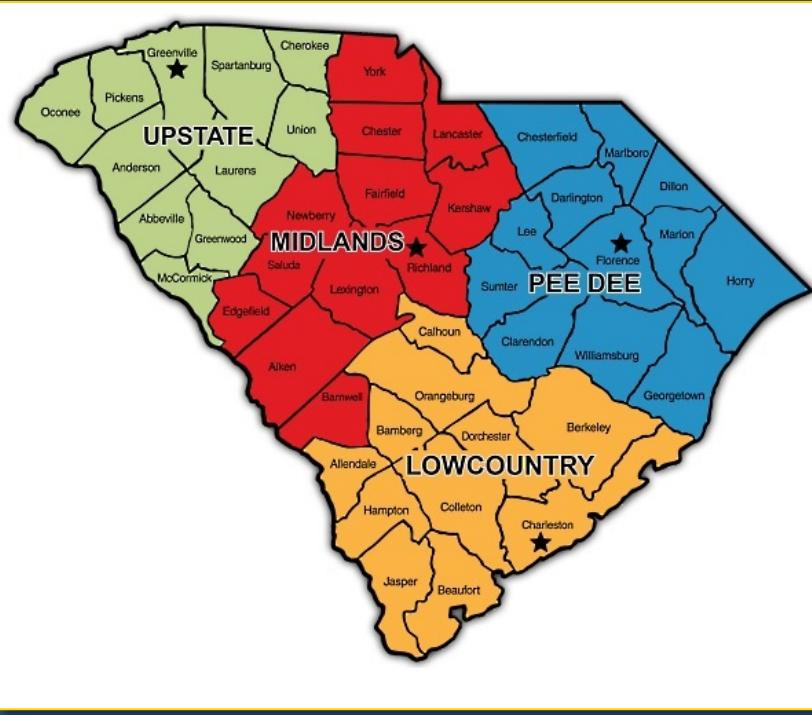
The Lowcountry Lowdown on Sea Level Rise

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Coastal Climate Extension Specialist
SC Sea Grant Consortium
Carolinias Integrated Sciences and Assessments

Seventh Annual Southeast Florida Regional Climate Leadership
Summit
December 2, 2015
Key West, Florida



The South Carolina Lowcountry



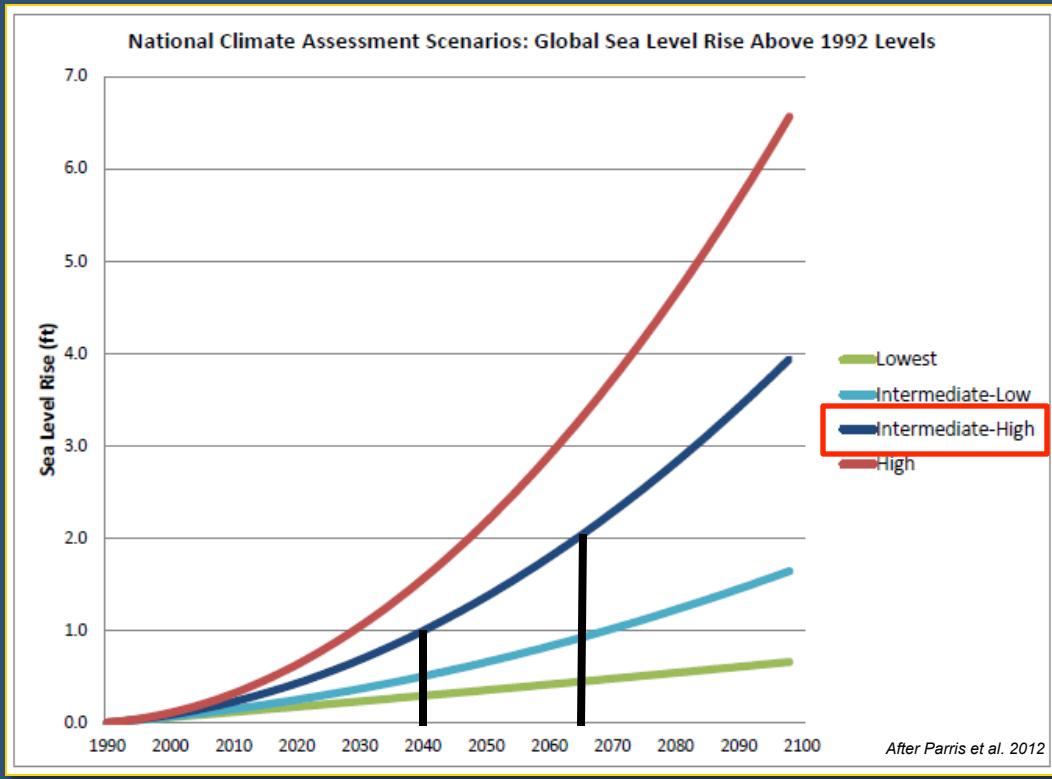
Chris Carnevale, SACE

Beaufort County – Participatory SLR Planning

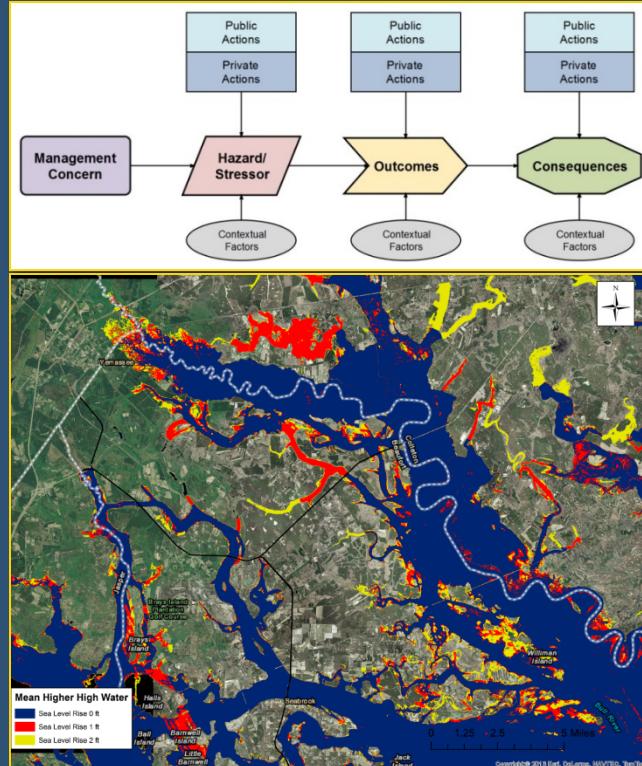


All photos: S.C. DHEC/MyCoast

Beaufort County – Participatory SLR Planning



Beaufort County – Participatory SLR Planning



Prioritized List of
Adaptation Strategies

Broader
Public
Input

Beaufort County – Participatory SLR Planning



Coordination, Cooperation, and Collaboration



Emergency Management



Research & Monitoring



Water Management



Miscellaneous

Education & Information



Land Management



Transportation Adaptation



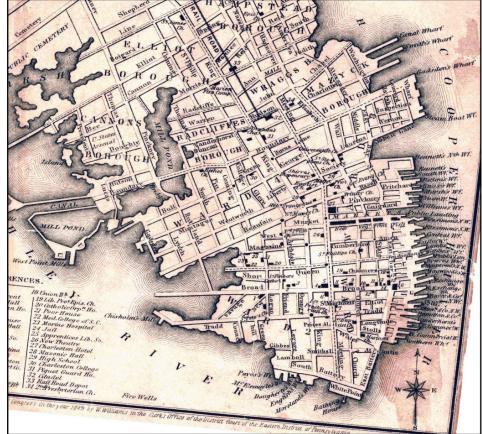
Social Adaptation



Charleston – A Regional Partnership for Flood Resilience

Sea Level Rise and Artificial Fill in Charleston, SC

Historic Map (1849)



Potential Impact of Sea Level Rise



Legend

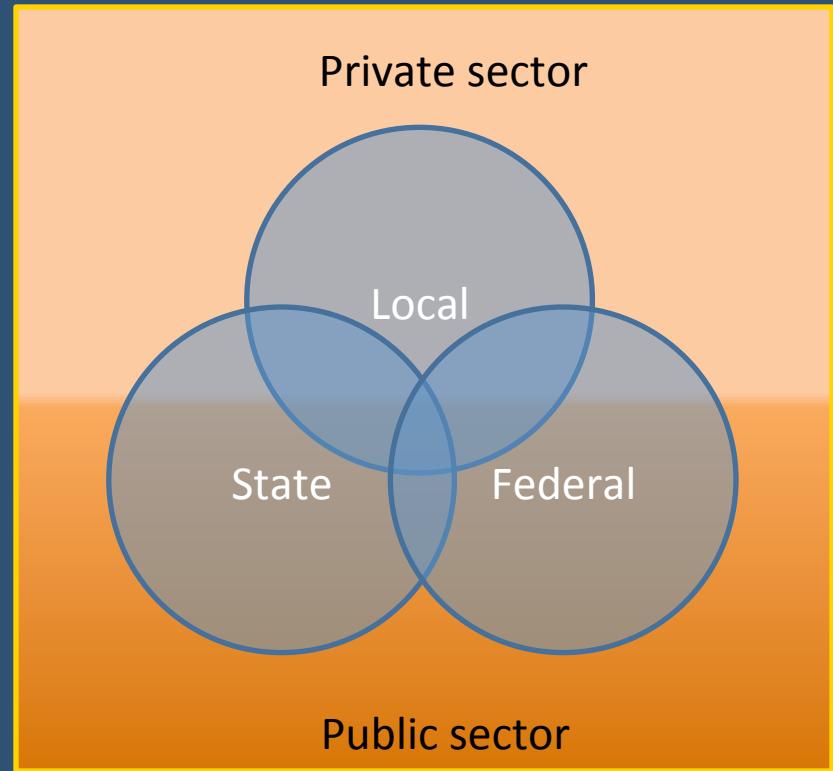
White	High Tide
Light Gray	+2 ft.
Dark Gray	+3 ft.

Service Layer Credits: Sources: Esri, HERE, DeLorme, TomTom, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), swisstopo, MapmyIndia, © OpenStreetMap contributors, and the GIS User Community

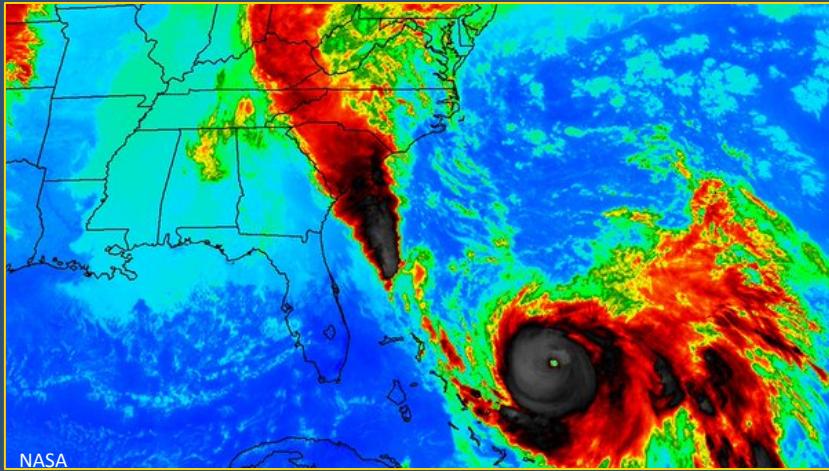


S.C. DHEC/MyCoast

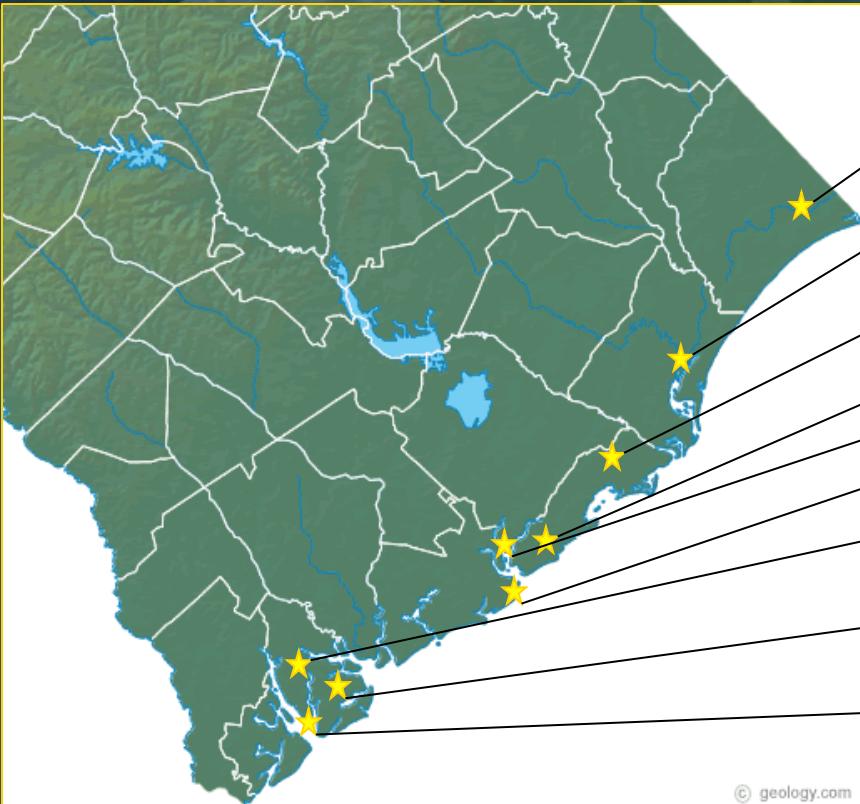
Charleston – A Regional Partnership for Flood Resilience



Charleston – A Regional Partnership for Flood Resilience



South Carolina – Building Resilience One Step at a Time



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Using the Community Rating System to maintain open space and healthy dunes in Myrtle Beach

Modeling saltwater intrusion and developing a drought early warning system

Understanding the public's perceptions of climate change in McClellanville

Analyzing flooding hazards on Sullivan's Island

Addressing current and future nuisance flooding in Charleston

Pro-active beach management in Folly Beach

Participatory approach to preparing for sea level rise in Beaufort, County

Citizen-driven sea level rise task force in Beaufort and Port Royal

Drought impacts on the blue crab fishery – citizen science to help support a predictive tool