



Georgia Climate Project: Building a Statewide Consortium to Drive Climate Action

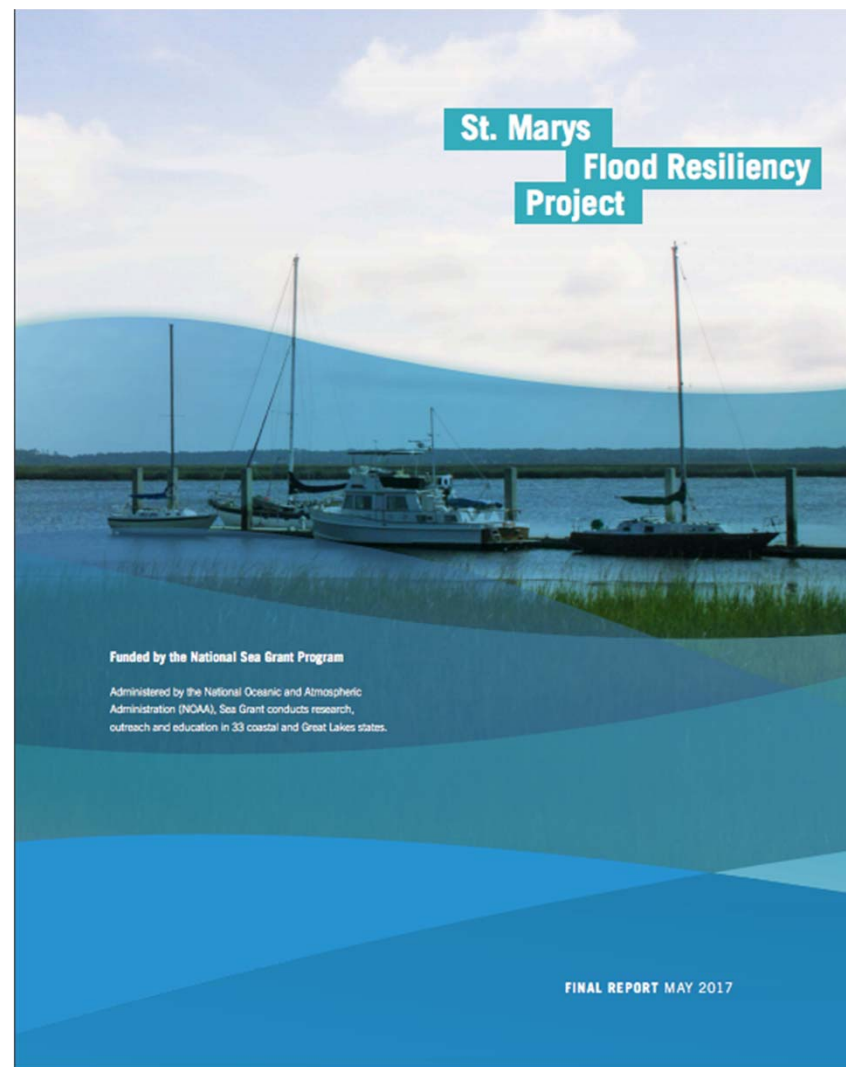
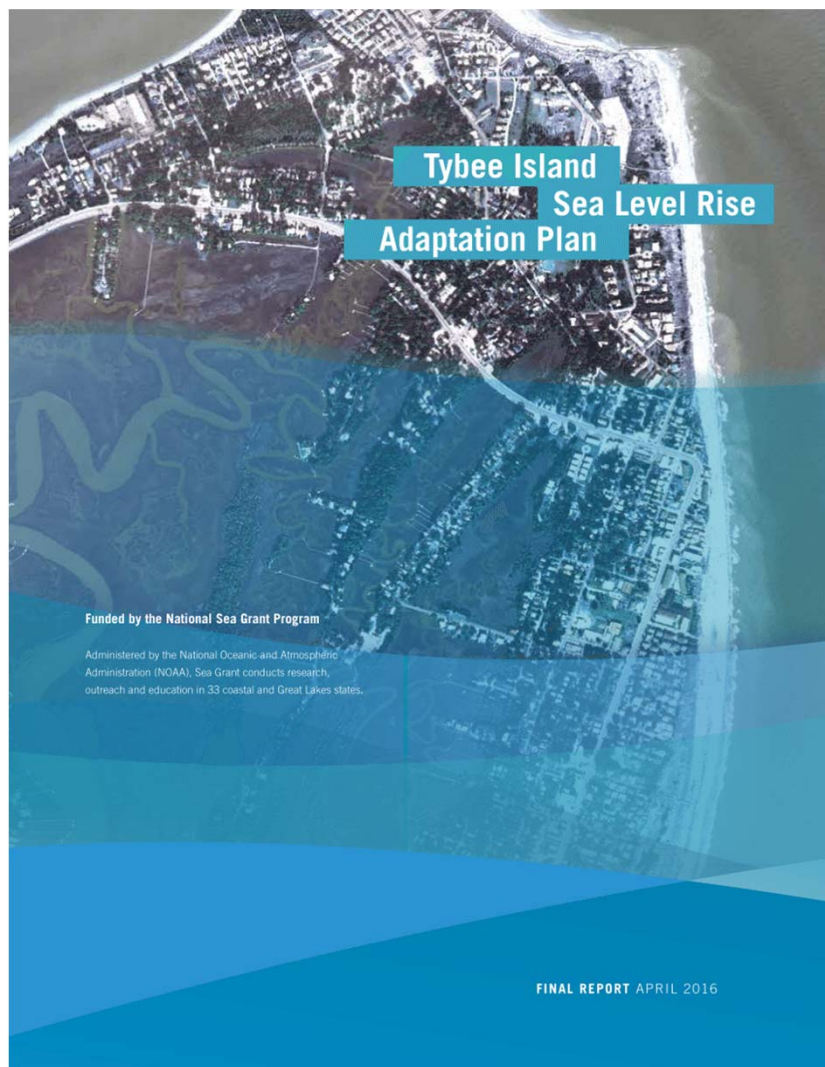
Jill Gambill
Coastal Resilience Specialist
Public Service Faculty



Marine Extension and
Georgia Sea Grant
UNIVERSITY OF GEORGIA



Photo credit: Glynn County Police Department



Marine Extension and
Georgia Sea Grant
UNIVERSITY OF GEORGIA



gacoast.uga.edu

GEORGIA CLIMATE PROJECT

A state-wide consortium of universities, colleges and partners working to improve understanding of climate impacts and solutions in Georgia.

www.GeorgiaClimateProject.org



www.GeorgiaClimateProject.org



GEORGIA CLIMATE PROJECT



EMORY
UNIVERSITY

Climate@Emory



UNIVERSITY OF
GEORGIA



www.GeorgiaClimateProject.org



Our vision

In 5 years, Georgia will be recognized regionally and nationally as a leader on climate change.

We will have a track record of constructive discussion among diverse groups,

leading to practical, science-based action

to maximize the economic opportunities and minimize the economic risks associated with a changing climate.

Guiding Principles

- **Partner with others**, including government, NGOs, and the private sector.
- **Don't reinvent the wheel**; work with existing nodes and networks of expertise.
- Achieve credibility through **neutrality and academic rigor**.
- Tap into **positive energy and enthusiasm** across the state (including from students!).
- Explore opportunities for **maximizing economic opportunity** and **minimizing economic hardship**, including for disadvantaged communities.



A word cloud shaped like the state of Texas, containing various terms related to climate change and environmental science. The words are arranged in a way that they fit the outline of the state. The most prominent words are 'Water', 'Coastal', 'Species', 'Energy', 'Adapt', 'Precipitation', 'Population', 'Economic', 'Community', 'Weather', 'Health', 'Human', 'Effect', 'Reduce', 'Need', 'Temperature', 'Urban', 'Agriculture', 'Carbon', 'Emission', 'Drought', 'Rate', 'Potential', 'System', 'Public', 'Severe', 'Sea Level', 'Current', 'Plant', 'Storm', 'Address', 'Renewable', 'Developed', 'Ecosystem', 'Create', 'Migration', 'General', 'Scholarship', 'New', 'No', 'River', 'Urban', 'Supply', 'Threat', 'Less', 'Resources', 'Risk', 'Related', 'Affect', 'Best', 'Major', 'Pilot', 'Parameters', 'Household', 'Way', 'Native', 'Local', 'Industry', 'Long', 'Better', 'Along', 'Faster', 'Real', 'Barriers', 'Ongoing', 'Events', 'Natural', 'Fire', 'Utility', 'Evidence', 'Type', 'Grass', 'Management', 'Coast', 'Information', 'Priorities', 'Production', 'Depend', 'Frame', 'Conditions', 'Solar', 'Precipitation', 'Biosphere', 'Disaster', 'Drought', 'Low', 'Value', 'Benefit', 'Reliable', 'Range', 'Farmers', 'Transport', 'Deal', 'Resource', 'Result', 'Average', 'Part', 'Future'.

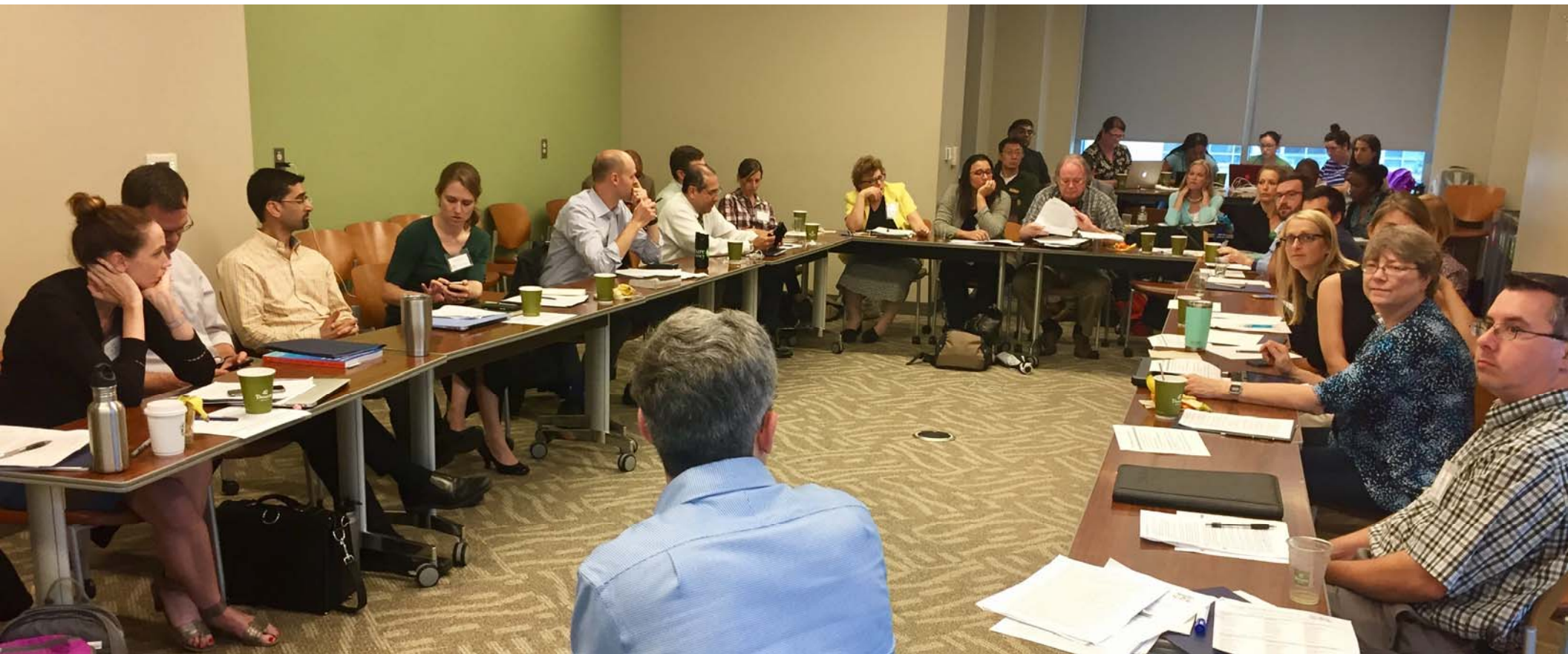
Stronger Conversations

A collage of four images representing different aspects of sustainable development: solar panels, a forest reflected in water, a modern building, and a city skyline at night.



Georgia Climate Research Roadmap

What questions need to be answered to help Georgia better understand and address climate-related challenges and opportunities?





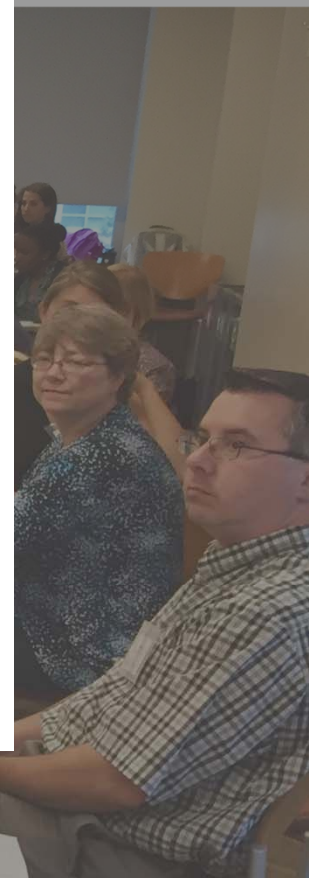
Georgia Climate Research Roadmap

Steering Committee:

- Marilyn Brown, Georgia Institute of Technology
- Carrie Furman, University of Georgia
- Murray Rudd, Emory University
- Patricia Yager, University of Georgia
- Lisa Bianchi-Fossati, Southface
- Jewell Harper, Second Nature
- Jairo Garcia, City of Atlanta
- David D'Onofrio, Atlanta Regional Commission
- Jennifer Kline, Georgia Department of Natural Resources
- Mark Risse, Georgia Sea Grant
- Ben Jordan, Emory & Coca-Cola
- Stephen O'Day, Smith, Gambrell & Russell

180 candidate
questions

40-person workshop
to select “Georgia’s
Top 40” questions





Georgia Climate Research Roadmap

What questions need to be asked to help Georgia better understand and address climate-related challenges and opportunities?



Human Health



Communities &
Infrastructure



Mitigation &
Adaptation
Across Multiple
Sectors & Scales



Water



Energy &
Transportation



Human Values,
Social Equity, &
Environmental
Justice



Weather and
Climate



Ecosystems in
Georgia



Oceans & Coasts



Agriculture,
Forestry, & Food



Georgia Climate Research Roadmap

11. How will changes in abiotic conditions in the ocean influence Georgia's climate and coastal ecosystems?
12. How will climate change affect coastal biodiversity, ecosystems, economy, and ecosystem services?
13. What are the most ecologically sound, cost-effective, and just adaptation options to address coastal hazards due to climate change?
14. How will sea level rise and flooding affect the economy of coastal Georgia?
15. How will climate-related changes in upstream water systems influence coastal ecosystems?



Georgia Climate Stories

- Visceral and immersive experiences
- Focus on solutions
- Behaviors in simulated world can translate into the real world





Georgia Climate Stories

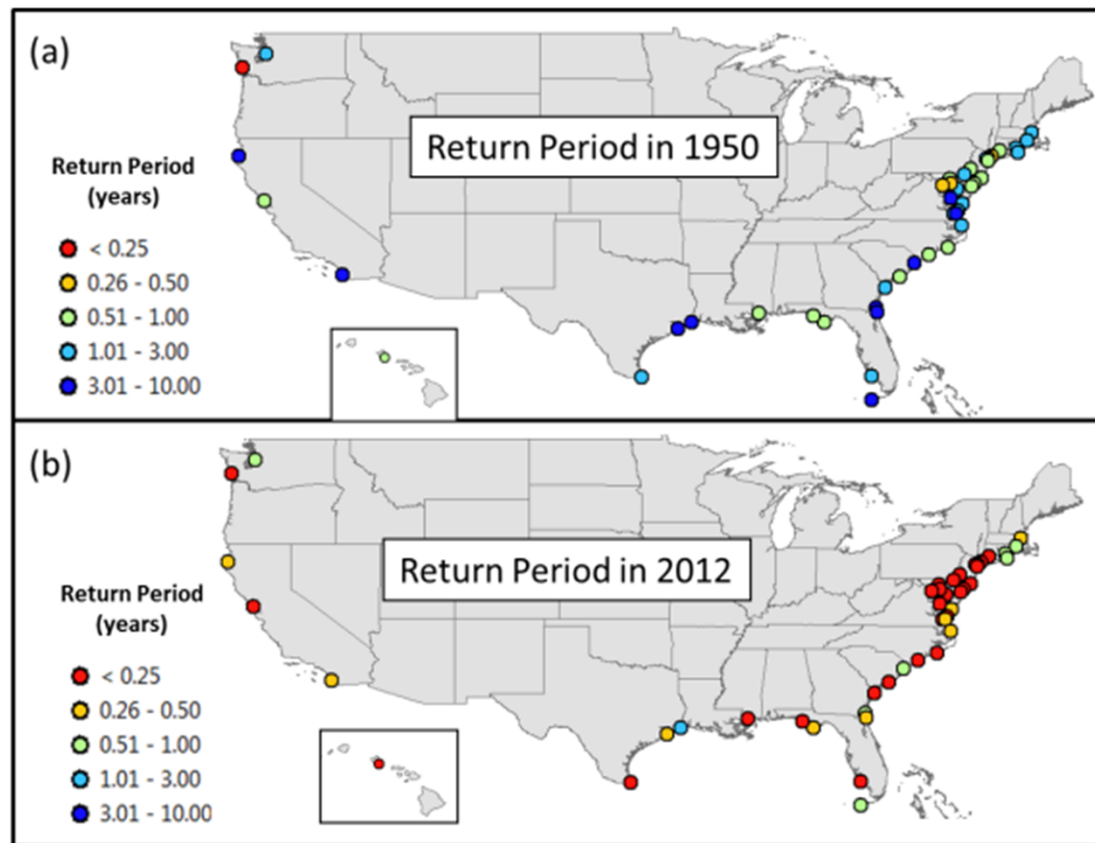




Georgia Climate Stories



NUISANCE FLOODING



Sweet et al. 2014



Marine Extension and
Georgia Sea Grant
UNIVERSITY OF GEORGIA



gacoast.uga.edu



Photo credit: WSAV



Marine Extension and
Georgia Sea Grant
UNIVERSITY OF GEORGIA



gacoast.uga.edu



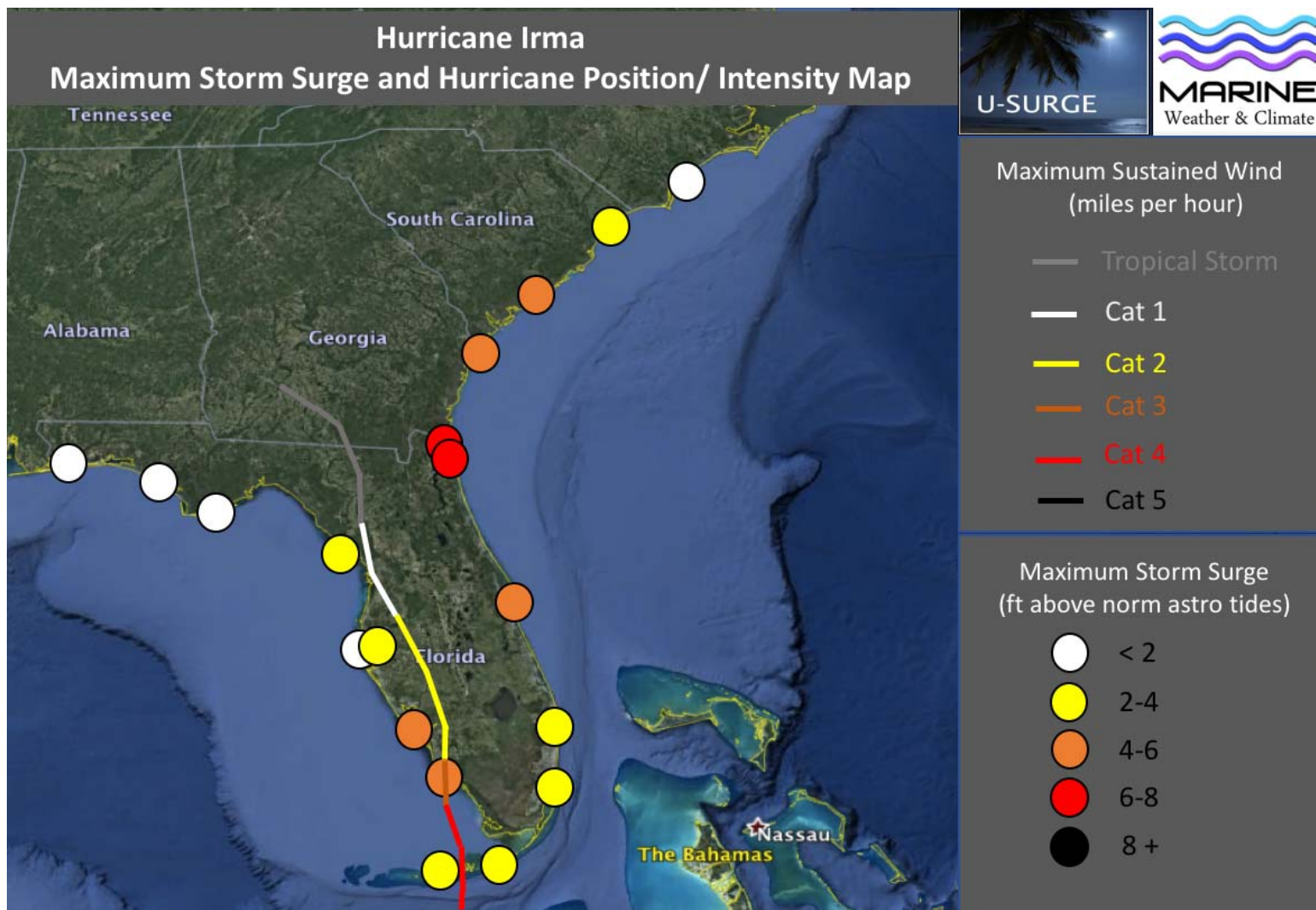
Photo credit: WTOC



Marine Extension and
Georgia Sea Grant
UNIVERSITY OF GEORGIA



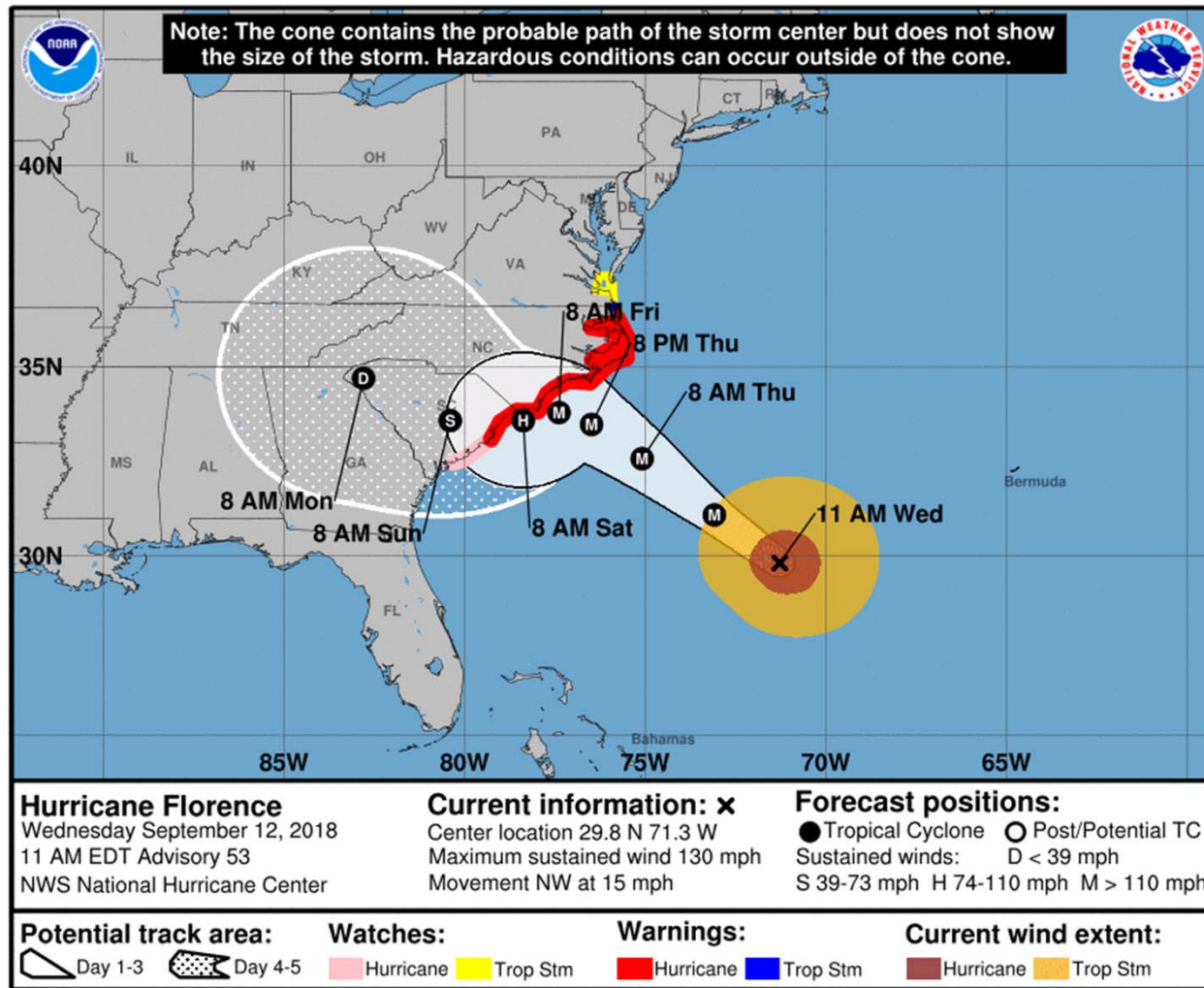
gacoast.uga.edu



Marine Extension and
Georgia Sea Grant
UNIVERSITY OF GEORGIA



gacoast.uga.edu



Marine Extension and
 Georgia Sea Grant
 UNIVERSITY OF GEORGIA



gacoast.uga.edu



Credit:
National Center for Atmospheric Research (NCAR)



Marine Extension and
Georgia Sea Grant
UNIVERSITY OF GEORGIA



gacoast.uga.edu



Marine Extension and
Georgia Sea Grant
UNIVERSITY OF GEORGIA



gacoast.uga.edu



STAY SAFE BY STAYING AWAY!

Hurricanes can result in the loss of power,
water and emergency services.

*Protect your children and family
by following your city or county's
evacuation orders.*



Marine Extension and
Georgia Sea Grant
UNIVERSITY OF GEORGIA



NCAR

NATIONAL CENTER FOR ATMOSPHERIC RESEARCH



Marine Extension and
Georgia Sea Grant
UNIVERSITY OF GEORGIA



gacoast.uga.edu

Connect with us



@UGAontheCoast



@GeorgiaSeaGrant



facebook.com/marex.gaseagrant/

Website: gacoast.uga.edu

Email: jgambill@uga.edu



Marine Extension and
Georgia Sea Grant
UNIVERSITY OF GEORGIA

