



SOUTHEAST

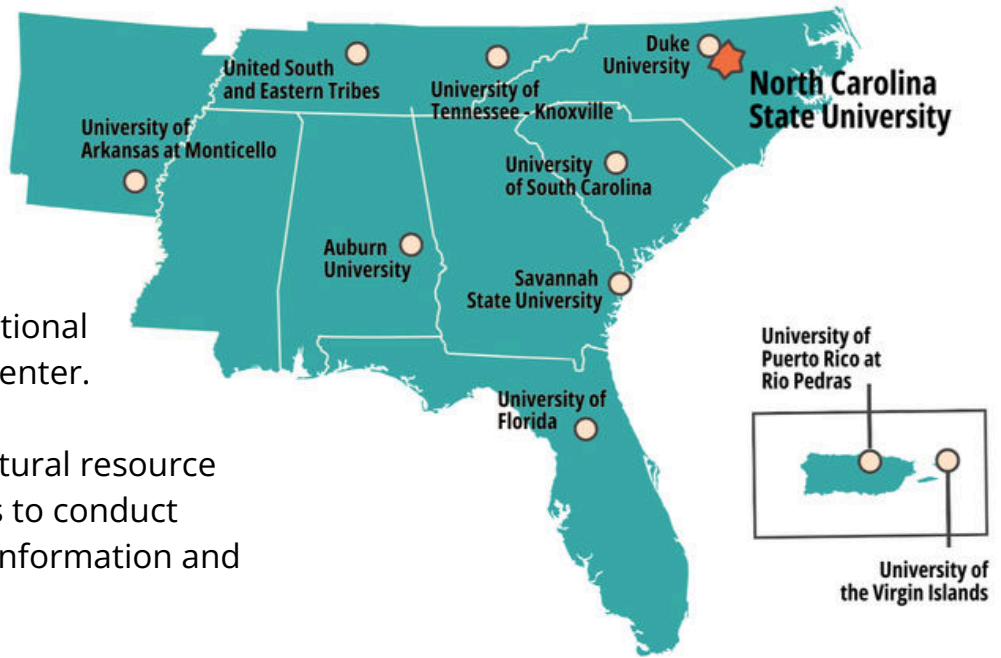
Climate Adaptation Science Center

The Southeast Climate Adaptation Science Center (**SE CASC**) is one of nine regional Climate Adaptation Science Centers managed by the U.S. Geological Survey National Climate Adaptation Science Center.

We work with natural and cultural resource managers and other partners to conduct research providing scientific information and decision-making tools.

North Carolina State University is the host institution for the Center, providing organizational support to implement the CASC mission through capacity building, project management, communications, and partnership development.

The footprint of the Center extends across eight states, six federally recognized Tribal Nations, and two territories in the U.S. Caribbean. In total, the consortium consists of eleven institutions.



CONSORTIUM INSTITUTIONS





Our Mission

Deliver science to help fish, wildlife, water, land, and people adapt to a **changing climate**.

- Produce data that supports transparent global change adaptation decisions.
- Convene decision makers, scientists, & managers on key adaptation decisions.
- Build the capacity of natural and cultural resource professionals, university faculty, and students to frame and make adaptation decisions.

Research

Research funded by the Southeast CASC aims to understand **exposure** and **impacts** of global change on resources that matter to our partners, and frame decisions about **adaptation** strategies, emphasizing principles of co-production.

Exposure	Impacts	Adaptation
<p>Assessment of Water Availability and Streamflow Characteristics in the Southeastern U.S. for Current and Future Climatic and Landscape Conditions</p> <p>This project simulates how daily hydrological conditions at CONUS extent may change under climate scenarios and explores potential risks to hydroperiod, flooding, and rapid onset drought in river systems.</p> <p>Completion: March 2024 secasc.ncsu.edu/science/water-availability/</p>	<p>Assessing Climate-Sensitive Ecosystems in the Southeastern United States</p> <p>Researchers assessed climate change vulnerability for some ecosystems in the Southeast and Caribbean by synthesizing data and literature related to climate sensitivity, climate change exposure, and adaptive capacity. For the twelve analyzed, five are highly and six are moderately vulnerable.</p> <p>Completed: December 2013 secasc.ncsu.edu/science/vulnerable-ecosystems</p>	<p>Strategic Habitat Conservation and Adaptive Strategies for the Conservation of Coqui Frogs in Puerto Rico</p> <p>Researchers helped in the recovery of two endangered "coqui" species of frog and reduced the risk of fourteen other coqui species becoming endangered. This research will inform decision-making on translocation versus in situ management.</p> <p>Completed: June 2023 secasc.ncsu.edu/science/coqui-conservation</p>

Global Change Research Fellows

We prepare the **next generation of scientists** by providing financial, scientific, and professional development for Consortium graduate students who are interested in multi-disciplinary global change research.

Learn more: go.ncsu.edu/secasc-fellows



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