

SOUTHEAST CLIMATE ADAPTATION SCIENCE CENTER

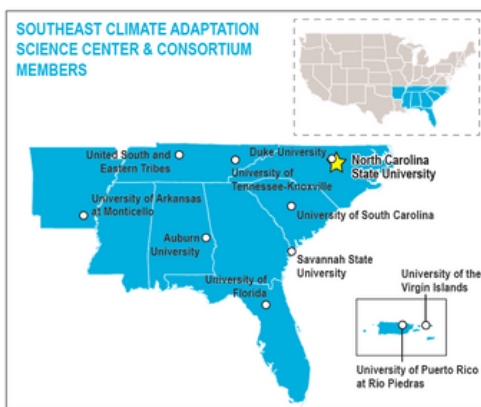


The Southeast Climate Adaptation Science Center (SE CASC) is one of nine regional Climate Adaptation Science Centers managed by the U.S. Geological Survey National Climate Adaptation Science Center. We work with natural and cultural resource managers and other partners to conduct research providing scientific information and decision-making tools.



SOUTHEAST
Climate Adaptation Science Center

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



North Carolina State University is the host institution for the Southeast Climate Adaptation Science Center, providing organizational leadership to implement the CASC mission through capacity building, project management, communications, partnership development, and connections with scientific capabilities in the region.



Consortium Organizations



Stay Connected



@se_casc



@Southeast-Climate-
Adaptation-Science-Center



@se_casc



secasc.ncsu.edu

Our Mission

Our mission is to deliver science to help fish, wildlife, water, land, and people adapt to a changing climate.



We fulfill this mission by:

- Producing decision-focused, research-based information that supports transparent global change adaptation decisions
- Convening conversations among decision makers, scientists, and managers about key ecosystem adaptation decisions
- Building the capacity of natural and cultural resource professionals, university faculty, and students to frame and make adaptation decisions

Our Research

Research funded by the Southeast Climate Adaptation Science Center encompasses a range of science activities that contribute to understanding the **exposure** and **impacts** of global change on resources that matter to our partners and to framing decisions about **adaptation** strategies, emphasizing principles of co-production.

SE CASC Project Spotlight by Theme		
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 a variety of ecosystems in the SE U.S. and Caribbean by synthesizing data and literature related to climate sensitivity, climate change exposure, and adaptive capacity. For twelve SE U.S. ecosystems 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 and reduced 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>

Learn about all the SE CASC projects: secasc.ncsu.edu/science

Global Change Research Fellows

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



Learn more: secasc.ncsu.edu/home/about/people/global-change-fellows

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