

Georgia Southern University

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Interdisciplinary STEM Teaching & Learning
Conference (2012-2019)

2013 Interdisciplinary STEM Conference (March
8, 2013)

Mar 8th, 9:00 AM - 9:20 AM

I²STEM^e - What, Who, Where?

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INSTITUTE for INTERDISCIPLINARY STEM EDUCATION



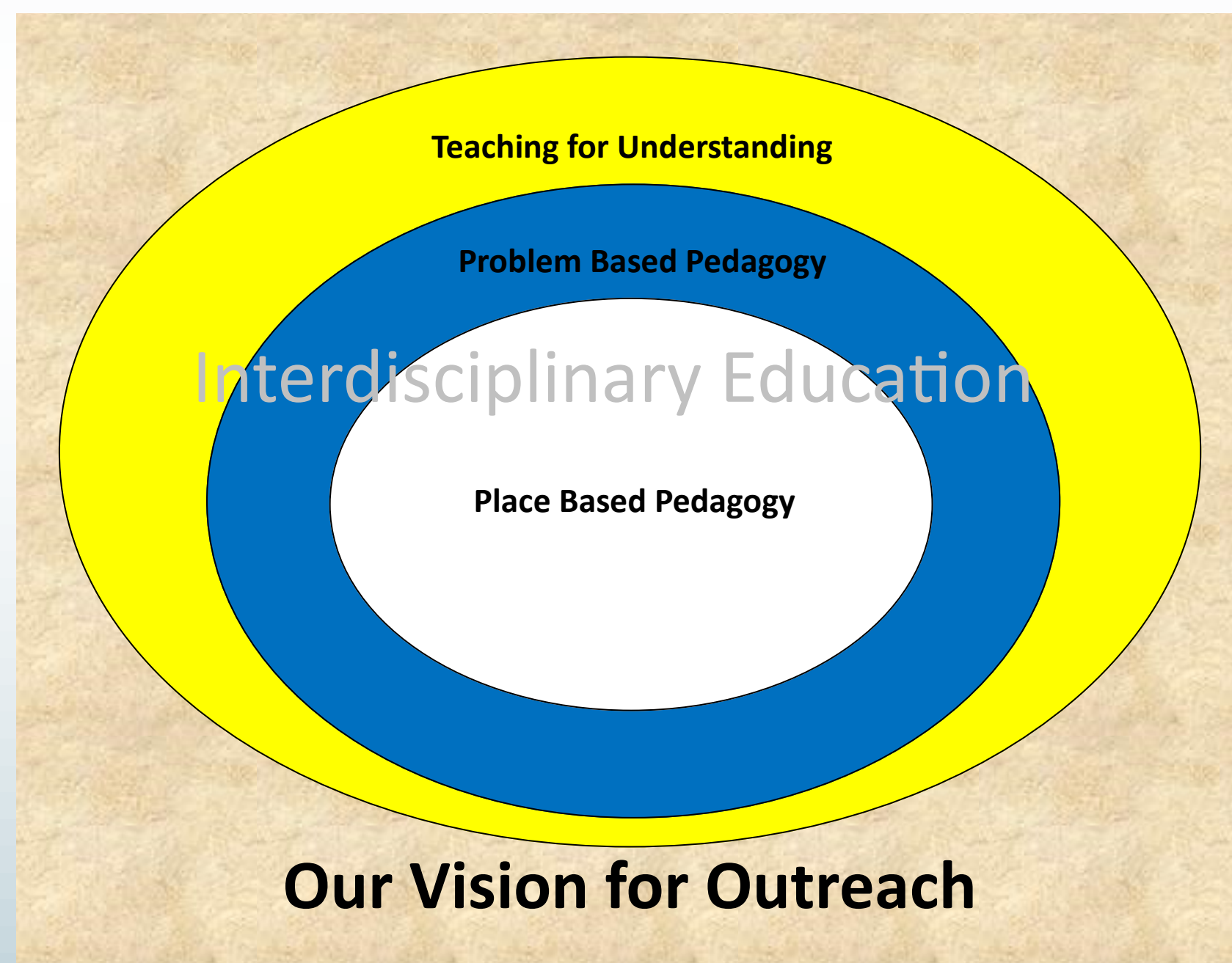
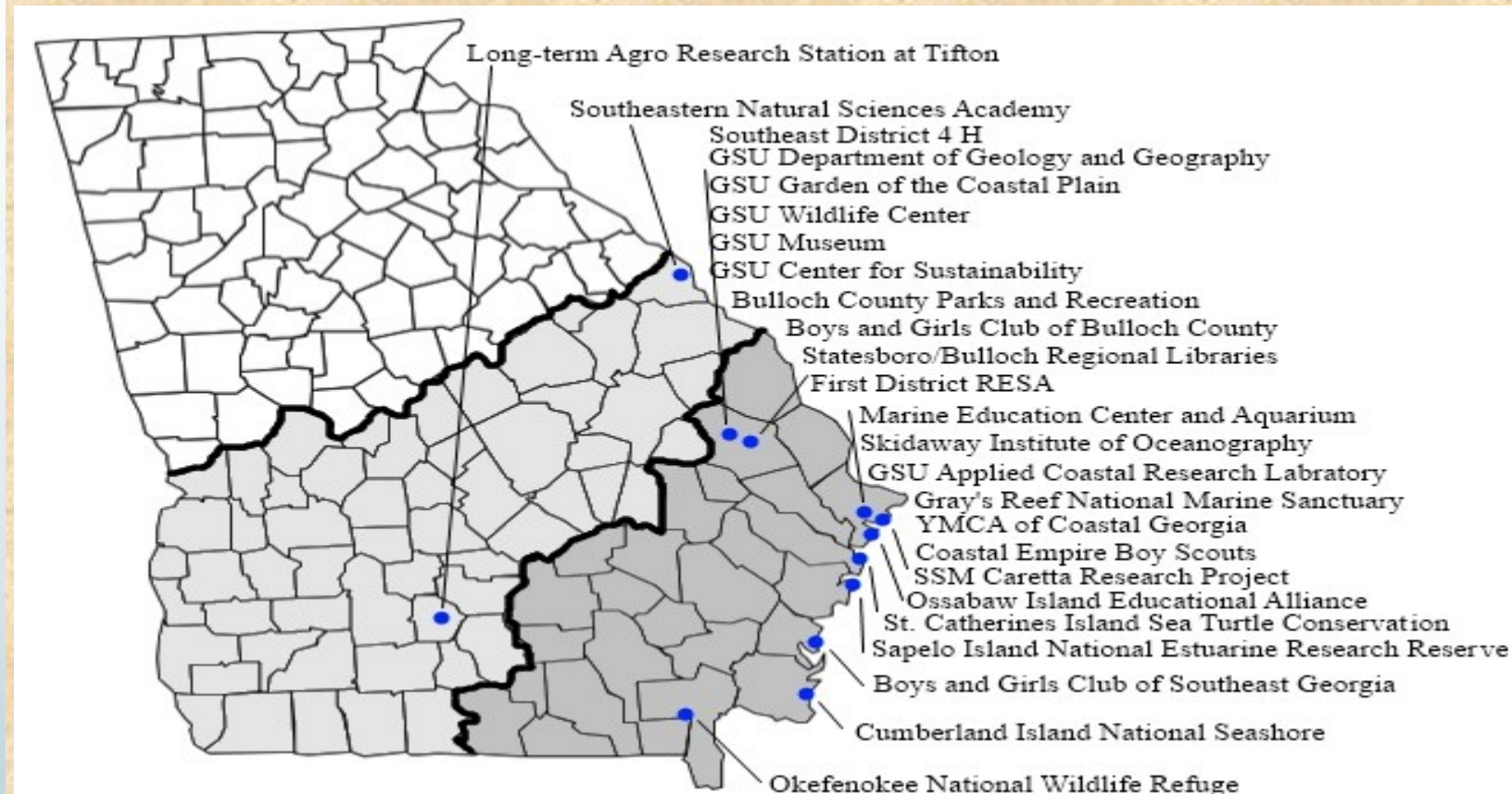
i²STEM^e

SCIENCE
TECHNOLOGY
ENGINEERING
MATH

GEORGIA SOUTHERN
UNIVERSITY

Mission

The mission of the Institute for Interdisciplinary STEM Education is to establish collaborative interdisciplinary programs committed to excellence in K-20 STEM teaching and learning. The i²STEM^e will strive to create broadly inclusive partnerships across academia, business, education, and research centers in the coastal plains of Georgia, support professional development, outreach, curricular development, and research in STEM education through grant funded projects, and establish interdisciplinary STEM education master's and Ph.D. programs. The Institute will support STEM projects by providing expertise in the evaluation of projects and in addressing broader impact initiatives of STEM research grants.



Outreach

We want to improve the STEM pipeline by developing collaborative partnerships with school districts, community colleges, and universities in Southeast Georgia with the goal of improving transition between these entities and improving engagement through real-world student centered pedagogy that prepares students for STEM-related job opportunities.



Funded Proposals

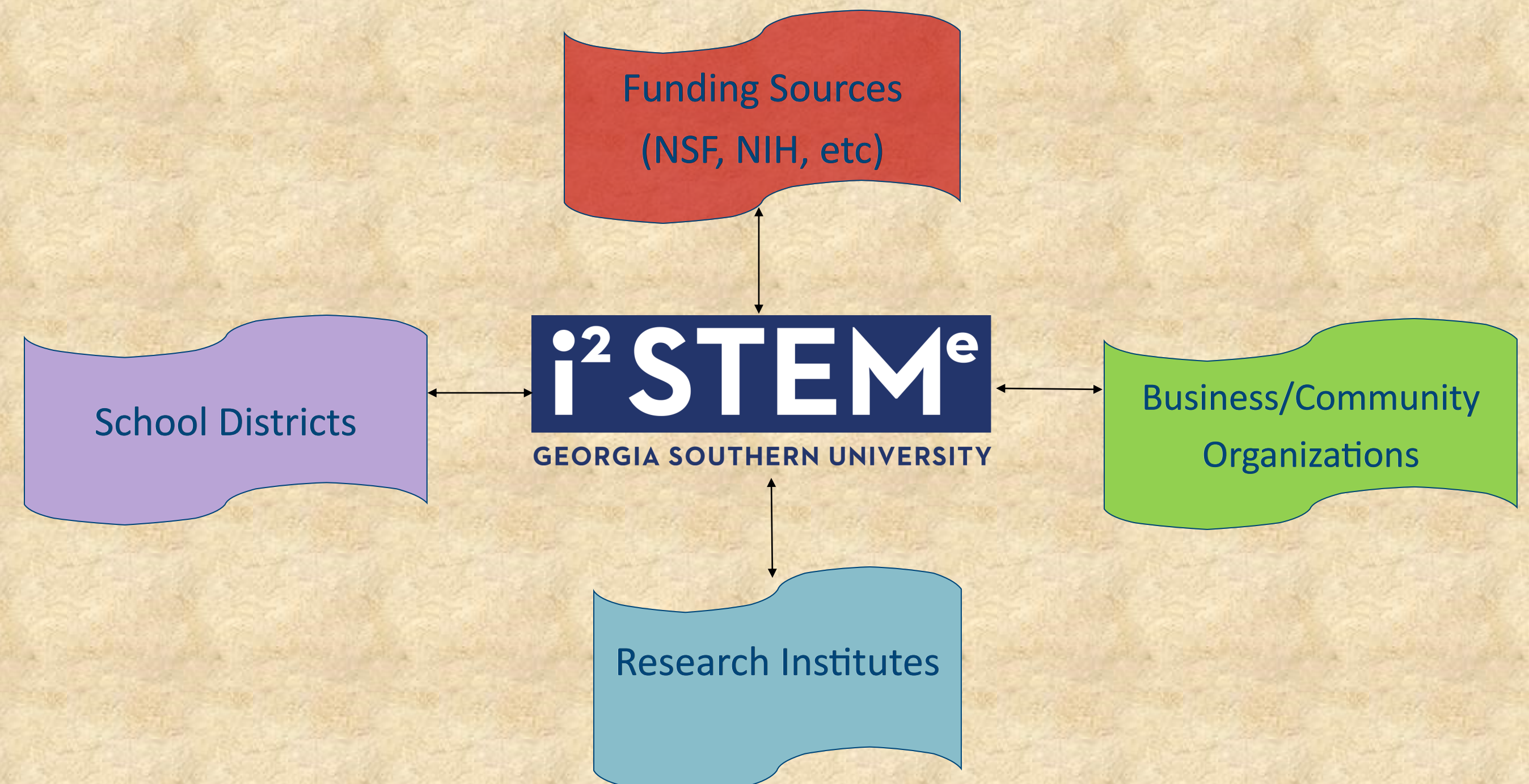
Feb 2013 - May 2014. Georgia Department of Education - Improving Teacher Quality: \$75,000. To improve STEM content knowledge by engaging teachers in an interdisciplinary study of the Savannah River Basin, translate that knowledge into the classroom, implement real-world, problem-based, place-based pedagogies, and connect to CCGPS.

Sep. 2012 - Aug, 2014. Georgia Department of Education - Race to the Top Innovation Fund: \$703,296. Development of high school courses for the pathway which will increase engagement of students in STEM fields by addressing problems that impact their communities and lives.

Dec 2008-Dec 2013. NSF MSP: Math Teacher Leadership Center. \$5,000,000. Develop virtual master's program for secondary mathematics education and a teacher leadership program for 4-12 grade mathematics teachers.

Oct 2008 - Oct 2013. NSF MSP: Pathways LTER - Culturally Relevant Ecology, Learning Progressions, and Environmental Literacy. \$12,500,000. Develop environmental literacy learning progressions. Subcontract focus on quantitative reasoning aspects.

The CONDUIT for STEM Education



Current School District Partners:

- [Richmond County School District](#)
- [Bulloch County School System](#)
- [Ware County School System](#)
- [Treutlen County School System](#)
- [Burke County School District](#)
- [Camden County School District](#)
- [Jenkins County School District](#)
- [Candler County School District](#)
- [Effingham County School District](#)
- [Bryan County School District](#)

Current Research Institute Partners:

- [Ossabaw Island Education Alliance](#)
- [Southeastern Natural Science Academy](#)
- [Skidaway Institute of Oceanography](#)
- [Grey's Reef Marine Sanctuary](#)
- [Marine Education Center and Aquarium](#)
- [GSU Applied Coastal Research Laboratory](#)
- [Applied Coastal Research Lab](#)
- [St. Catherine's Island Sea Turtle Program](#)
- [Savannah Science Museum Caretta Research Program](#)
- [Sapelo Natural Estuarine Research Reserve](#)
- [Cumberland Island National Seashore](#)
- [Okeefeenokee Nat'l Wildlife Refuge](#)
- [Tifton LTAR](#)

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