



The SECAS Third Thursday Web Forum

The Southeast Regional Partnership for Planning and Sustainability (SERPPAS): Engaging cross-sector approaches to climate resilience



Agenda

- Introduction
- Monthly topic
- Q&A and discussion
- Preview of next webinar
- Staff updates



The Southeast Regional Partnership for Planning and Sustainability (SERPPAS): Engaging cross-sector approaches to climate resilience

Michelle Covi & Addie Thornton, SERPPAS

9-19-2024



Sustaining Coastal Resilience and the Military Mission in the Southeast

SECAS Webinar
September 19, 2024

*Addie Thornton, SERPPAS
Michelle Covi, Sea Grant*



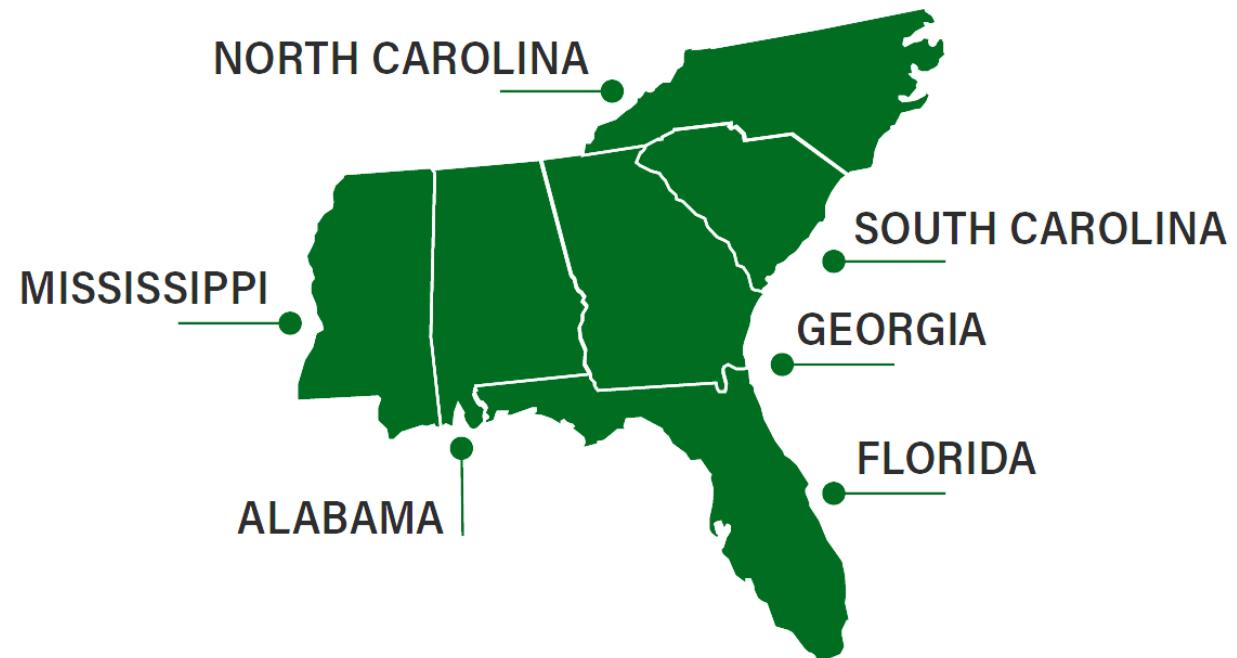
Marine Extension and
Georgia Sea Grant
UNIVERSITY OF GEORGIA

Sea Grant



What is SERPPAS?

Established in 2005, SERPPAS is a unique six-state partnership that promotes collaborative decision-making to support the conservation and resilience of national defense, natural resources, working lands and communities in the Southeast



Southeast Regional Partnership for
Planning and Sustainability (SERPPAS)





Federal Agencies

Office of the Secretary

Military Services

US Army Corps of Engineers

US Environmental Protection Agency

US Forest Service

US Fish and Wildlife Service

USDA Natural Resources Conservation Service

US Geological Survey

National Oceanic and Atmospheric Administration

SERPPAS COORDINATOR & SUPPORT STAFF

PRINCIPALS
Led by: DoD, State, Military Service Co-Chairs

STEERING COMMITTEE
Led by: DoD, State, Military Service Co-Chairs

WORKING GROUPS

PARTNERS

CASCADING LEVELS OF PARTICIPATION

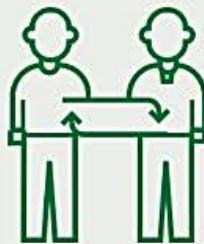


Mission and Objectives

SERPPAS mission: to seize opportunities and solve problems in value-adding ways that provide mutual and multiple benefits to the partners, sustain the individual and collective missions of partner organizations, and secure the future for all the partners, the region, and the nation.



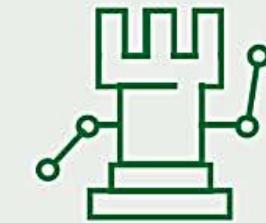
Minimize incompatible development with decisions that are beneficial to the military mission, community well-being, rural economics, and environmental requirements.



Increase partnerships to improve conservation, the economy, quality of life, resilience, and military readiness.



Utilize data rich and GIS-based maps to identify overlapping and compatible partner priorities.



Develop policy initiatives and promote innovative projects that support the SERPPAS mission.



Southeast Regional Partnership for Planning and Sustainability (SERPPAS)



SERPPAS Focus Areas



Sentinel Landscapes in the Southeast

Connects currently designated and future Sentinel Landscapes to address shared challenges, share lessons learned, and promote the Sentinel Landscapes Partnership's mission in the Southeast.



At-Risk, Threatened, and Endangered Species

Collaborates with partners to promote innovative strategies for conservation of at-risk and listed species and increases flexibility for addressing impacts to both military missions and species.



Southeast Prescribed Fire Initiative

Develops and implements a Comprehensive Prescribed Fire Strategy that promotes prescribed fire as a land management tool to minimize the risk of destructive wildfires while restoring critical habitat and species in the Southeast.



Coastal Resilience and Regional Adaptation

Fosters collaboration among partners to build capacity, develop plans, share resources, and implement projects that address climate adaptation and increase resilience for military installations and communities.



Energy Development and Siting

Collaborates with partners to encourage robust coordination and promote effective use of new or existing tools that could aid developers' ability to address potential impacts to military mission and natural resources.



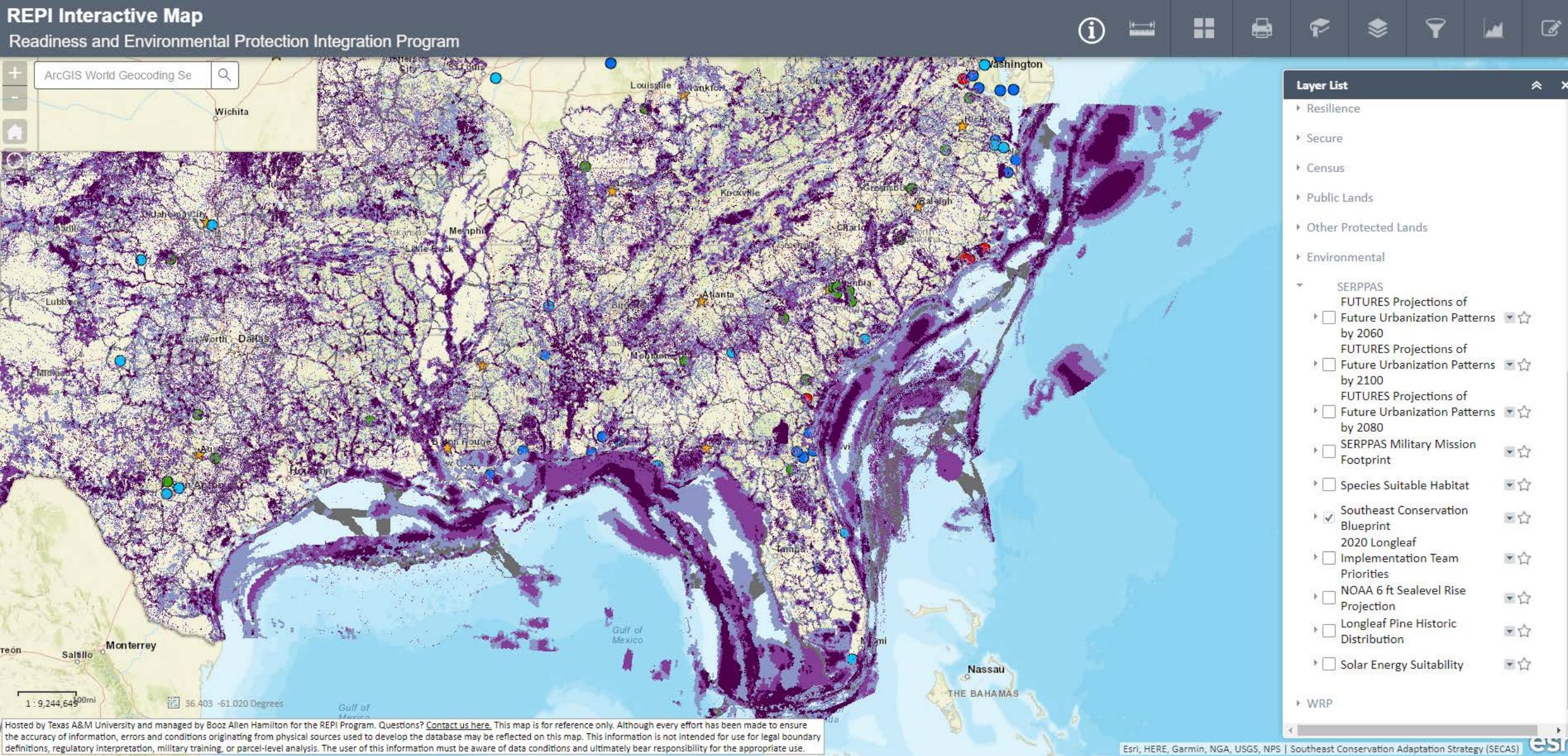
Southeast Regional Partnership for Planning and Sustainability (SERPPAS)



SERPPAS Good Map

REPI Interactive Map

Readiness and Environmental Protection Integration Program

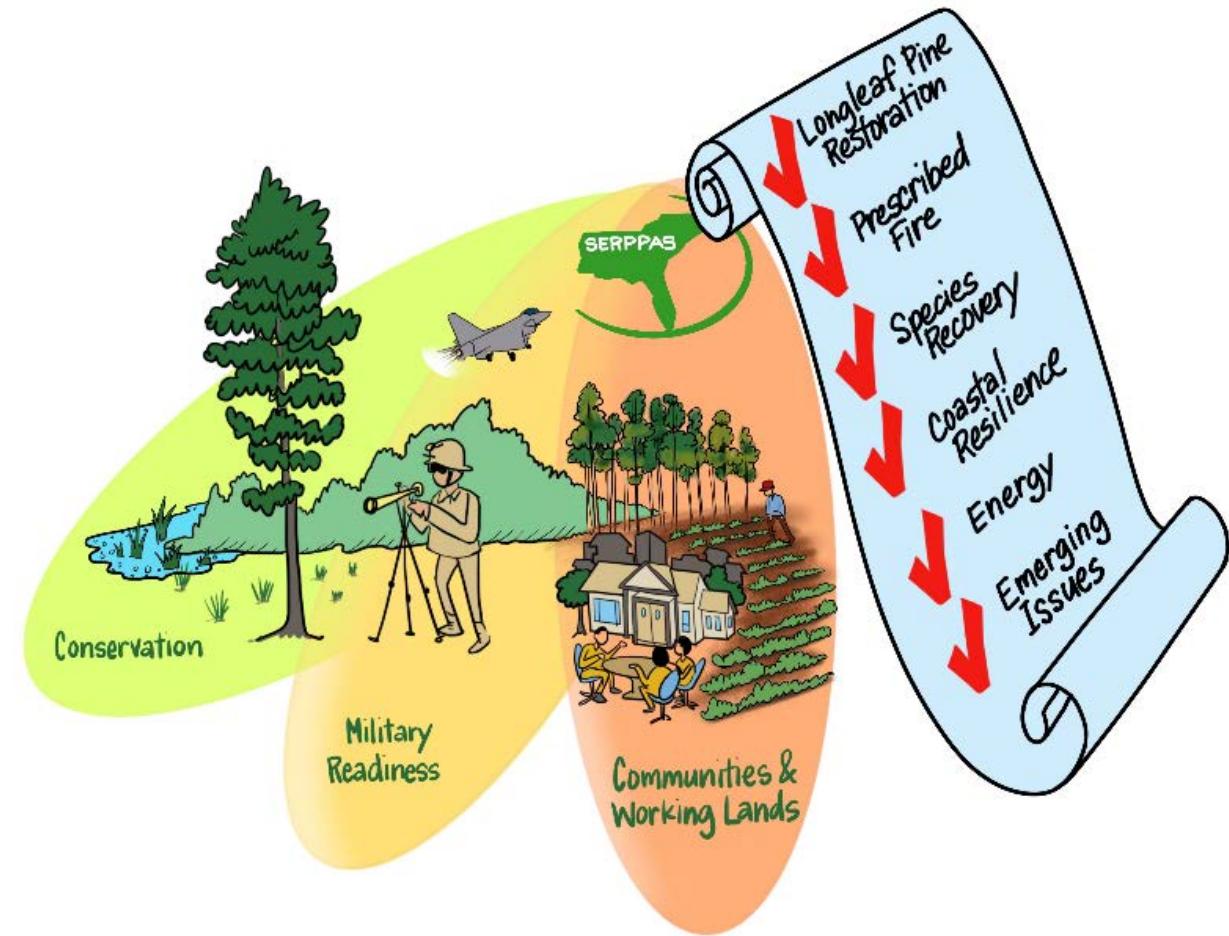


Past Collaborations

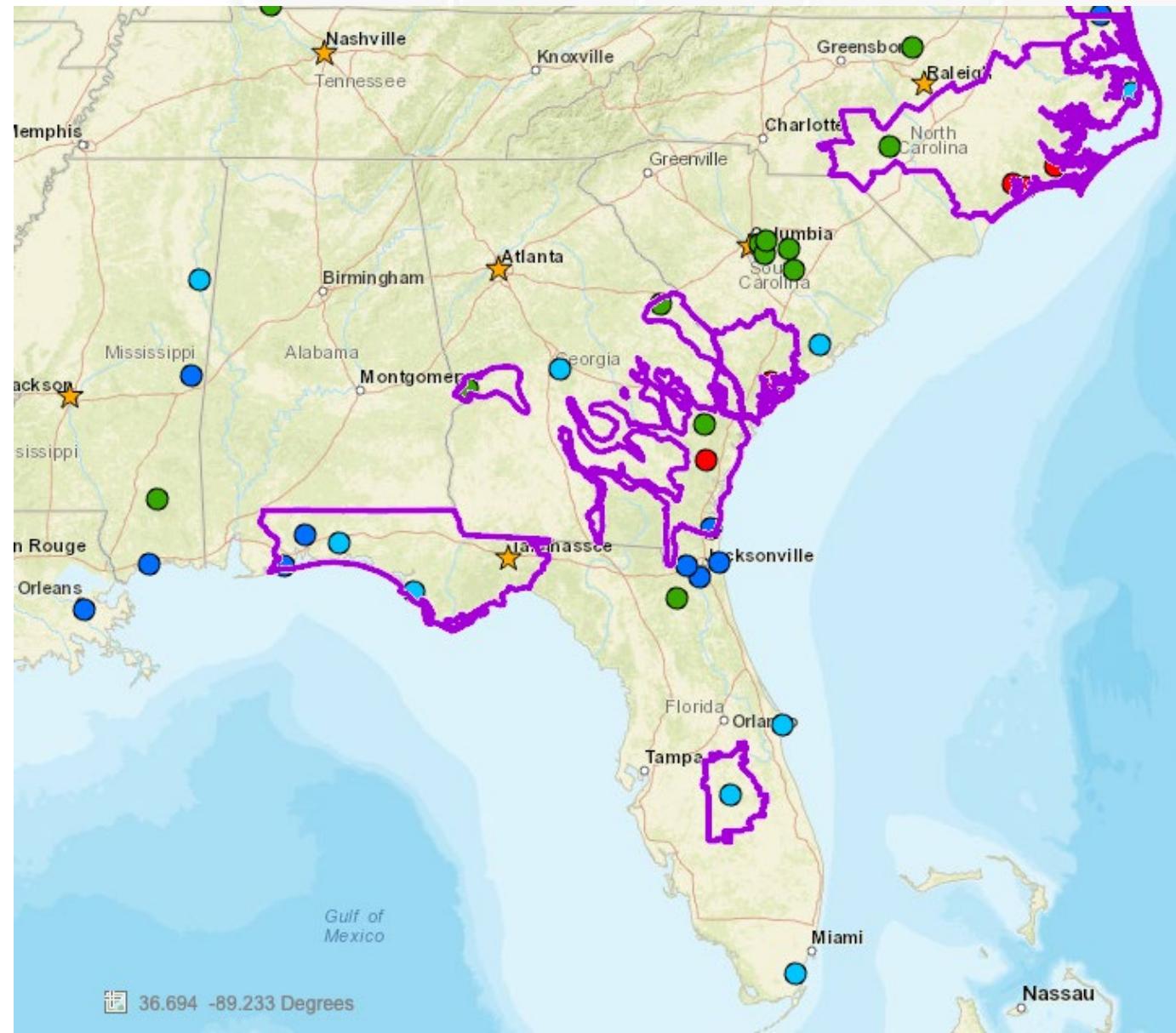
- SERPPAS Good Map Workshop
- Supporting the designation of Sentinel Landscapes
- Informing installation Joint Land Use/Sustainability Plan
- Helping installations plan for climate change and urban growth
- Communicating the watershed benefits of aquatic restoration on installations
- Contributing to SERPPAS future visioning



Southeast Regional Partnership for
Planning and Sustainability (SERPPAS)



SENTINEL LANDSCAPES



Eastern North Carolina
Lowcountry South Carolina
Georgia
Northwest Florida
Avon Park (FL)

Coastal Resilience and Regional Adaptation Work Group

- Build partnerships and capacity in climate resilience planning and actions working across DOD installations and communities.
- Develop and share resources on coastal/climate resilience planning and projects, authorities, funding and tools.
- Support the development, implementation and evaluation of nature-based solutions for climate resilience projects.
- Collaborate with other SERPPAS focus areas for climate resilience.



Southeast Regional Partnership for
Planning and Sustainability (SERPPAS)

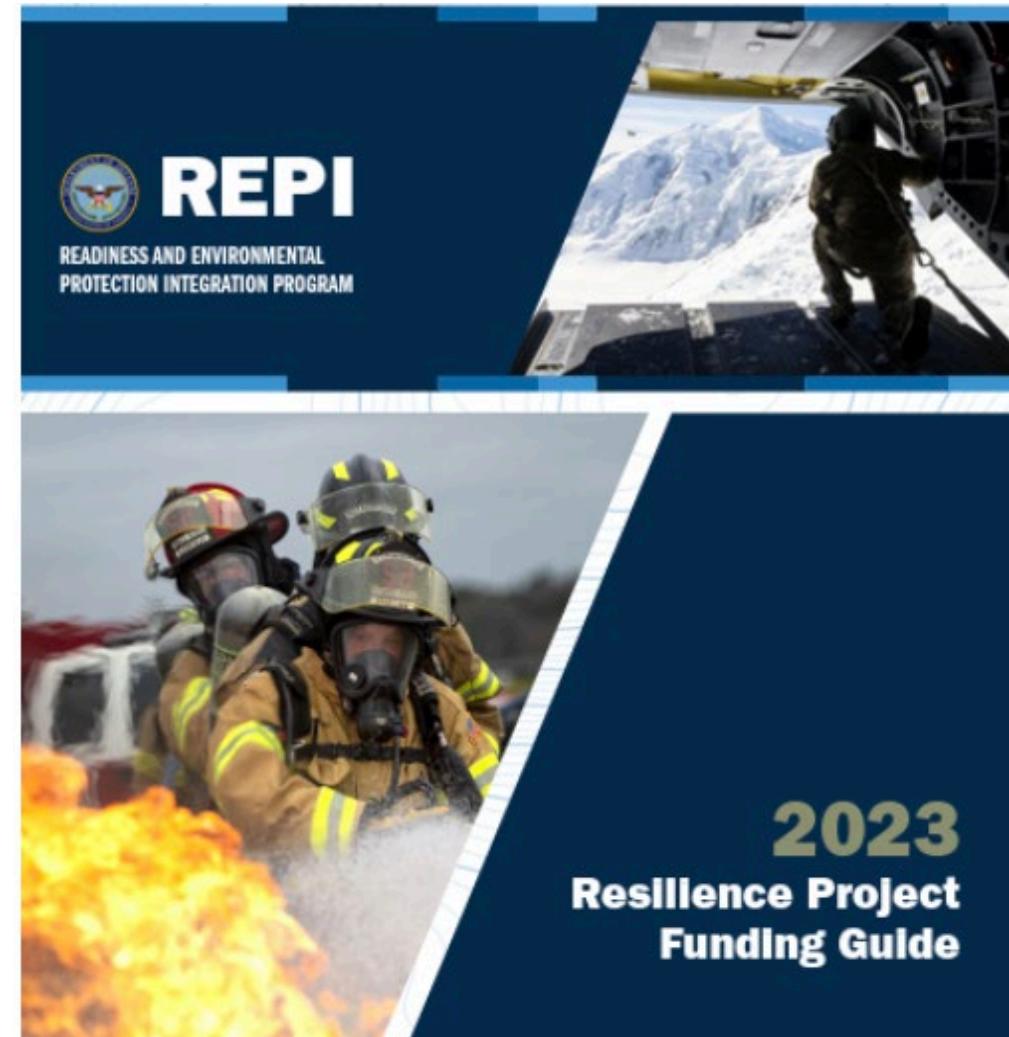


Funding Climate Resilience in Communities

2019 National Defense Authorization Act - funding for resiliency efforts by state and local governments to address climate threats that impact military installation or operations.

Programs in DoD that provide funding for off-installation resilience projects.

- Office of Local Defense Community Cooperation (OLDCC)
- Readiness and Environmental Protection Integration (REPI)



LOWCOUNTRY MIRR

Military Installation Resilience Review of MCAS Beaufort, MCRD Parris Island, and the Surrounding Areas



Prioritized Resilience Pilot Projects

Using the prioritization process three pilot project were chosen that have high scores, align with community land use typologies of rural, suburban, urban highlighting many of vulnerabilities and toolkits defined throughout this report. Each pilot project is a recommendation for a series of mitigation measures that can be applied to the three development transects in the Lowcountry at local and regional scales.

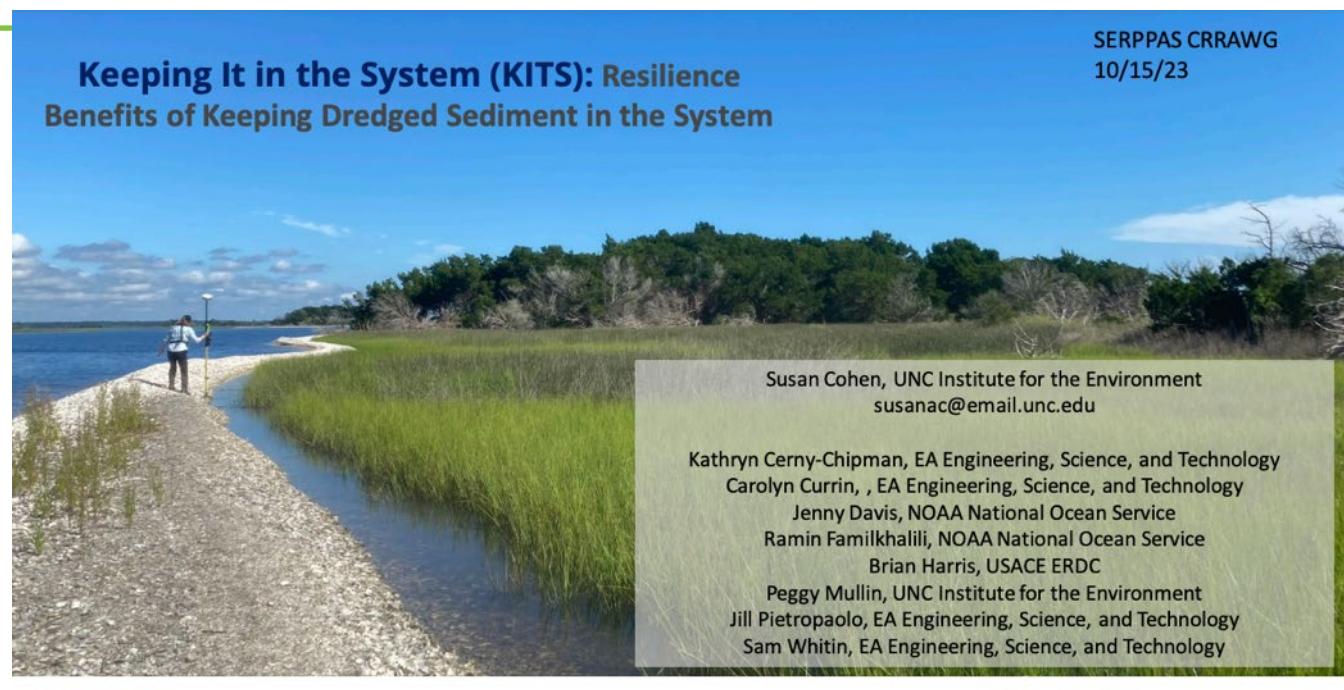
The pilot sites are meant to highlight how the spectrum of recommendations from previous reports, stakeholder input, high priority projects identified by the screening process, and aggregate vulnerabilities across the socioeconomic spectrum, can come together to inform efforts that benefit the military installations and the surrounding communities.

Land Use	Pilot Project	Military Asset or Service of Pilot Project	Community Asset or Service of Pilot Project	Threats Affecting Area							
				Coastal Flooding	Pluvial Flooding	Storm Surge	Compound Flooding	Marsh Loss	Coastal Erosion	Water & Sewer	
Rural	St. Helena Island Wastewater Treatment Plant (WWTP)	Evacuation Route and access to MCRD Parris Island	Evacuation Route	•	•	•	•			•	
Suburban	Star Magnolia Subdivision on Lady's Island	Military Housing	Sewer Lift Station	•	•	•	•		•	•	
Urban	US 21 Interchange at Shell Point	Potable Water Withdrawals	Wastewater Treatment and Non-Potable Irrigation	•	•	•	•	•	•		



Support for Nature- based Solutions

Keeping It in the System (KITS): Resilience Benefits of Keeping Dredged Sediment in the System



SERPPAS CRRAWG
10/15/23

Susan Cohen, UNC Institute for the Environment
susanac@email.unc.edu

Kathryn Cerny-Chipman, EA Engineering, Science, and Technology
Carolyn Currin, EA Engineering, Science, and Technology
Jenny Davis, NOAA National Ocean Service
Ramin Familkhalili, NOAA National Ocean Service
Brian Harris, USACE ERDC
Peggy Mullin, UNC Institute for the Environment
Jill Pietropalo, EA Engineering, Science, and Technology
Sam Whitin, EA Engineering, Science, and Technology

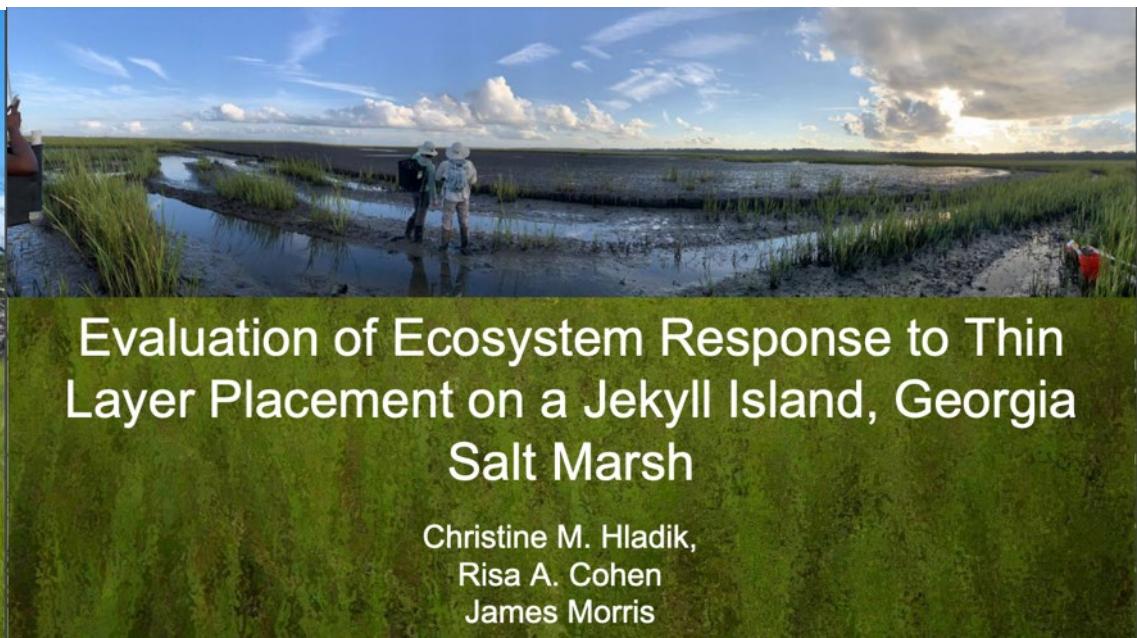
Funded by NOAA's Effects of Sea Level Rise Program

Beaches to Bioswales: Nature's Toolbox for Resilience

Discover the landscape of Nature-Based Solutions (NBS) in Florida and how to implement these features to increase resilience and produce flood risk management benefits

2023 | Florida Silver Jackets Project



Evaluation of Ecosystem Response to Thin Layer Placement on a Jekyll Island, Georgia Salt Marsh

Christine M. Hladik,
Risa A. Cohen
James Morris



Cedar Key Living Shorelines & Performance during Hurricane Idalia

Savanna Barry, Elix Hernandez,
and Mark Clark
University of Florida





SOUTH ATLANTIC SALT MARSH INITIATIVE

Goal: To enhance the long-term abundance, health and resilience of the approximately 1 million acres of salt marshes within the South Atlantic states to ensure no overall loss of the benefits these wetlands provide to fish, wildlife and people.

marshforward.org

SERPPAS: NBS Regulatory Needs and Best Practices Sub Work Group

- **Purpose:** Identify best practices and policy alternatives for efficient, coordinated, transparent, and successful project review and permitting by local, state, and federal agencies for nature-based infrastructure and restoration projects associated with DOD and within the SERPPAS geography.
- **Organizing & Key Members**
- Co-Lead: Andy LoSchiavo, Senior Environmental Specialist USACE SAD
- State Co-Lead(s): NC, GA, FL and MS state CZM programs
- Federal agencies, Navy Region SE, USAF, NGOs



Southeast Regional Partnership for Planning and Sustainability (SERPPAS)

SERPPAS/CRRAWG Sub-workgroup on NBS Regulatory Best Practices and Needs

Overview of Living Shoreline Permitting and Regulatory Review in North Carolina, Georgia, Florida, and Mississippi

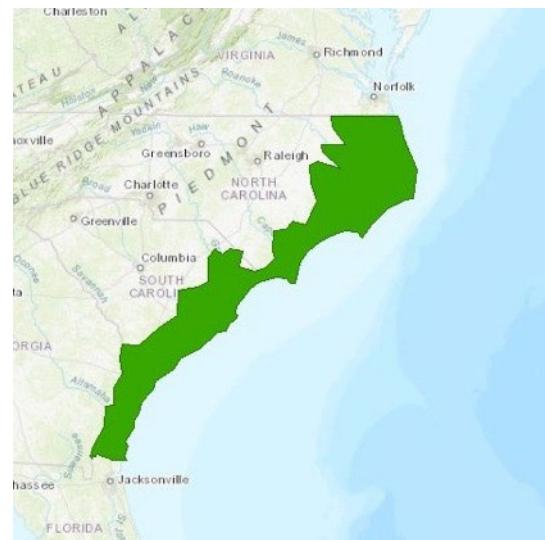
Executive Summary

In the southeastern coastal United States, Department of Defense (DOD) installations and surrounding communities face significant challenges from coastal erosion, flooding, and sea-level rise. Waves driven by wind, boat traffic, and storms can destroy fragile landforms along the coastline, not to mention sea walls and other traditional or “grey” infrastructure. On many installations and in their surrounding communities, this erosion can put important infrastructure at risk of failure – from runways to access roads to utility lines – creating risks to military readiness, training activities, and other ongoing support operations. Coastal erosion also alters ecological systems and functions that might make environmental compliance obligations more difficult, for instance those related to endangered species and water quality management. Owing to these risks, DOD’s Defense Climate Assessment Tool (DCAT), which is used across the entire DOD enterprise to develop screening-level analysis of climate vulnerability for any given installation, declares coastal erosion “a significant problem.” That said, DOD recognizes coastal erosion as a problem that “may be reduced or eliminated through structural and nonstructural measures.”¹

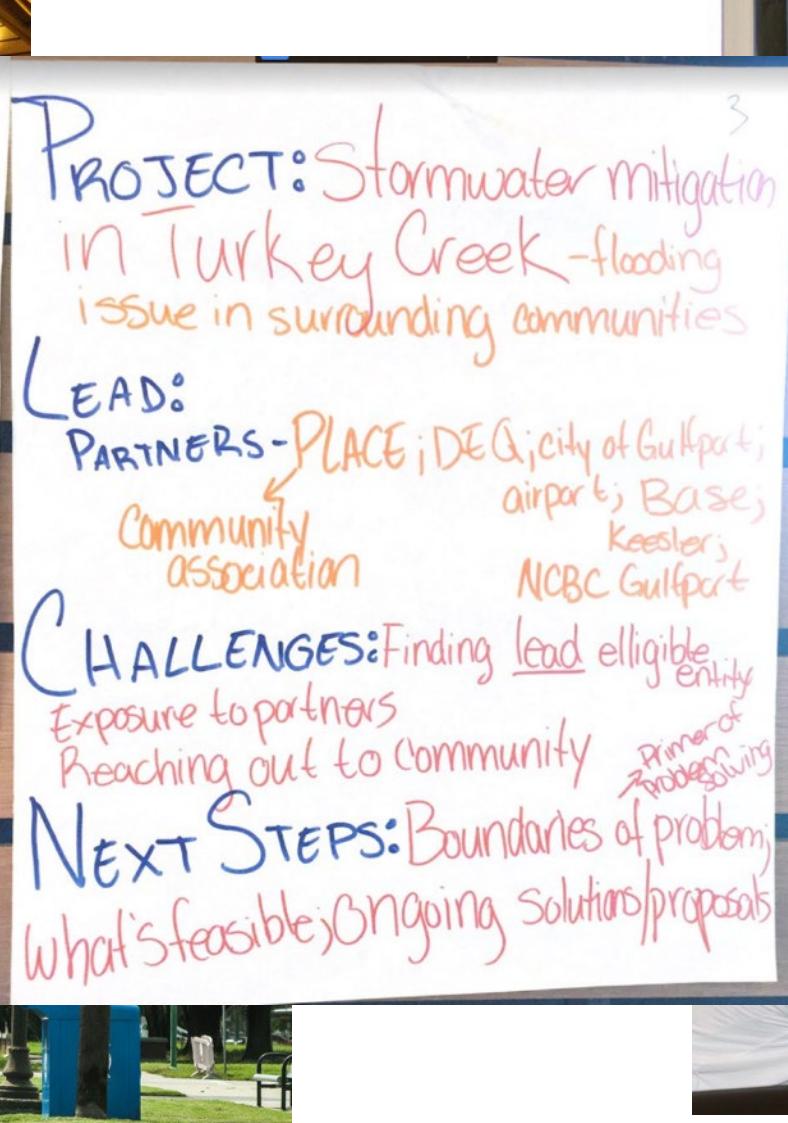


Emerging: Beneficial Use of Dredged Material for Coastal Resilience

- Navy SE and NSB Kings Bay
- USACE 70% by 2030
- Support for habitat resilience and restoration
- Support for coastal resilience
 - Built infrastructure



SERPPAS /Sea Grant DOD Resilience workshops 2022-23



SERPPAS Sentinel Landscape Climate Resilience Summit 2023

- Landscapes are engaged in climate resilience to varying degrees.
- **Capacity** is a critical concern
- Building relationships across fences and sectors is critical for successful projects.
- To support projects, there is a need to develop goals that are broader and fit within the larger landscape.
- Few installations have fully analyzed their climate risks and vulnerabilities.



2024 DOD/ USFWS Summit

Climate and Conservation Summit

HOSTED BY THE DEPARTMENT OF DEFENSE AND THE U.S. FISH & WILDLIFE SERVICE



Southeast Regional Partnership for
Planning and Sustainability (SERPPAS)

Opportunities:

- Policy
- Tools and Resources
- Training and Education
- Pilot project ideas



Questions/Discussion

CONNECT WITH US:



@GACoast.UGA



@GACoast_UGA



@gacoast.uga



gacoast.uga.edu



Subscribe to
our newsletter



Next Third Thursday
Web Forum

10-17-2024

10:00 am ET

Lance Garrison,

NOAA Southeast
Fisheries Science
Center

secassoutheast.org

The Gulf of Mexico Marine Assessment Program for Protected Species (GoMMAPPS): Developing spatial density models for marine mammals in the northern Gulf of Mexico





Staff updates

- Southeast Conservation Blueprint 2024 release coming mid-October
- Blueprint 2024 workshop registration open for late Oct/early Nov
- Goal report release scheduled for January

Southeast Conservation Blueprint 2024 release coming mid-October

- Indicator improvements in the inland and marine continental Southeast
- Improving prioritization methods with a new version of Zonation
- Blueprint 2024 release web forum on Nov 21st @ 10 am ET

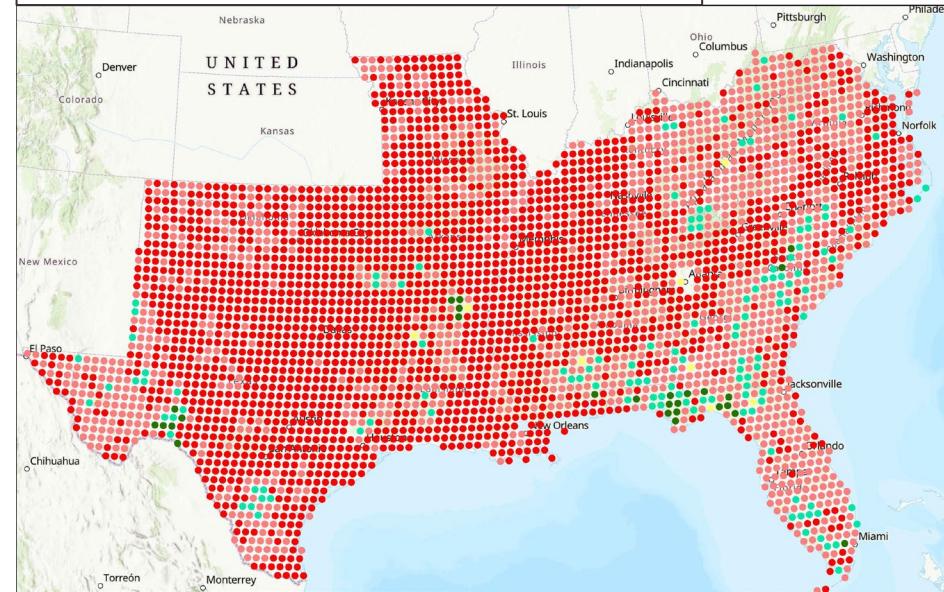
Blueprint 2024 workshop registration open for late Oct/early Nov

- By popular demand, moving workshops to after the Blueprint release so final indicator data and documentation is available to inform feedback
- October 22 – Nov 7
- 13 virtual workshops via Zoom, 1.5 hours long
- At least 2 workshops for every single part of the SECAS geography (inland continental, marine continental, U.S. Caribbean)
- Register here: <https://secassoutheast.org/workshops>

Goal report scheduled for release in January

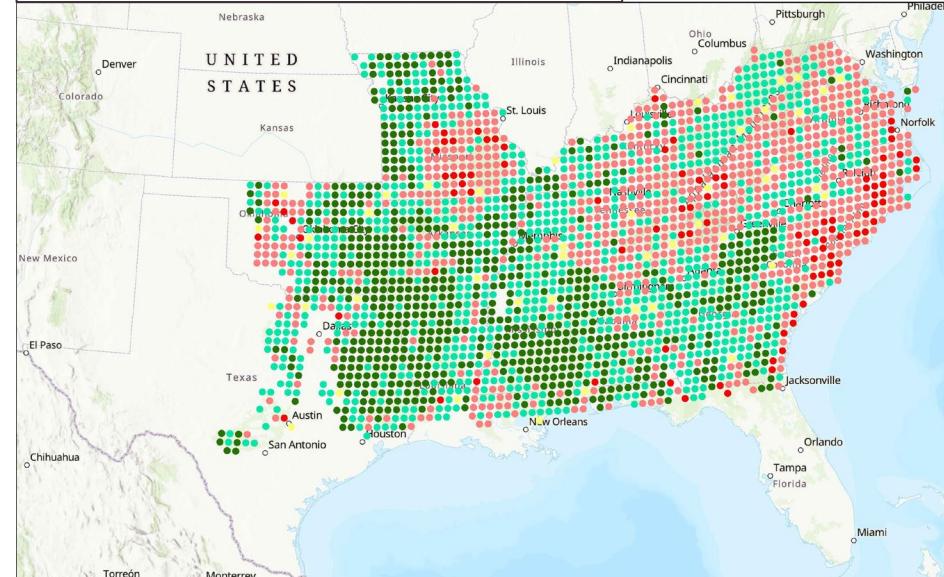
- Updates in this year's goal report
 - Updated bird indicators
 - New grassland and savanna extent indicator
 - New year of data for prescribed fire in longleaf pine
 - Updated undeveloped land in corridors to Blueprint 2024 corridors
- Next steps
 - Points of Contact review
 - Public-facing spatial dashboard

Grassland & savanna birds

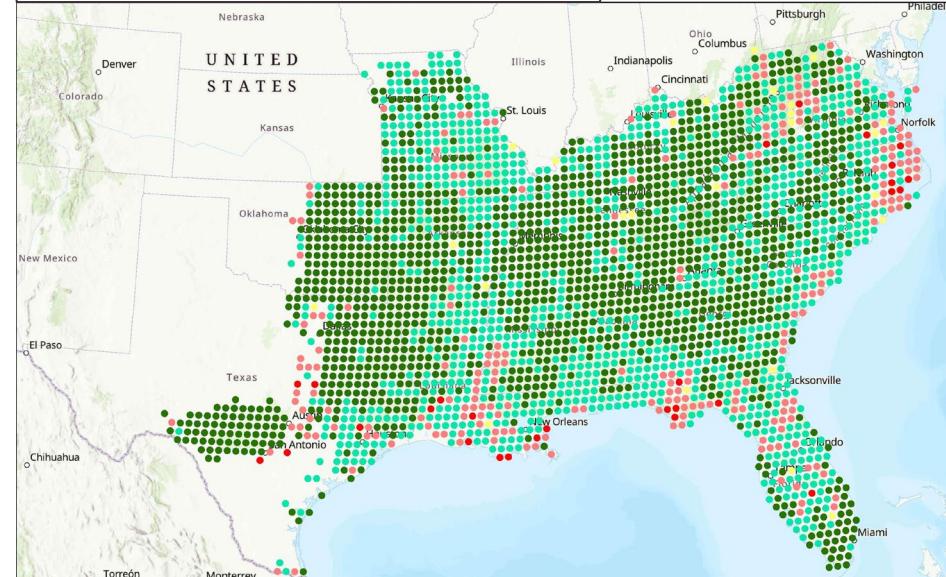


- Finer resolution trends based on eBird (2012 – 2022)
- Circles represent trends in 27km blocks
- Helps estimate changes in habitat quantity and quality

Upland hardwood birds



Forested wetland birds



How to get involved in SECAS

- Sign up for the SECAS newsletter

secassoutheast.org

- Connect with SECAS staff or partners

secassoutheast.org/staff

secassoutheast.org/partners

- Explore the Southeast Conservation Blueprint

secassoutheast.org/blueprint



**Southeast
Conservation
Adaptation
Strategy**



Questions?