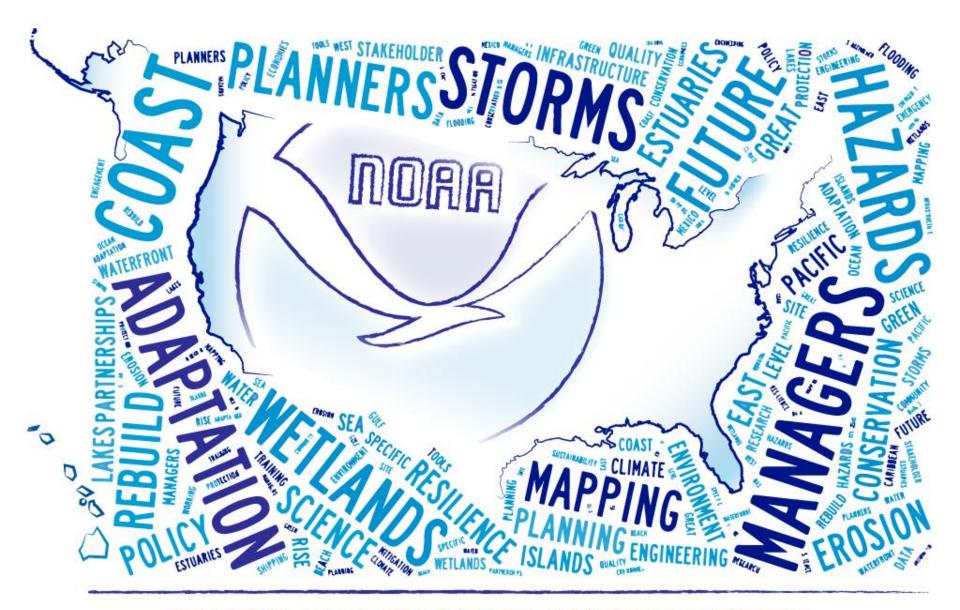
Coastal Resilience in the Southeast: NOAA Resources and Partnerships



Photo: Jill Gambill, University of Georgia Marine Extension Service

Heidi Stiller NOAA Office for Coastal Management





OFFICE FOR COASTAL MANAGEMENT

Programs and Partnerships

Primary Programs

National Coastal Zone Management Program

National Estuarine Research Reserves

Digital Coast

Coral Reef Conservation Program





Digital Coast Enabling Platform and Partnership



coast.noaa.gov/digitalcoast



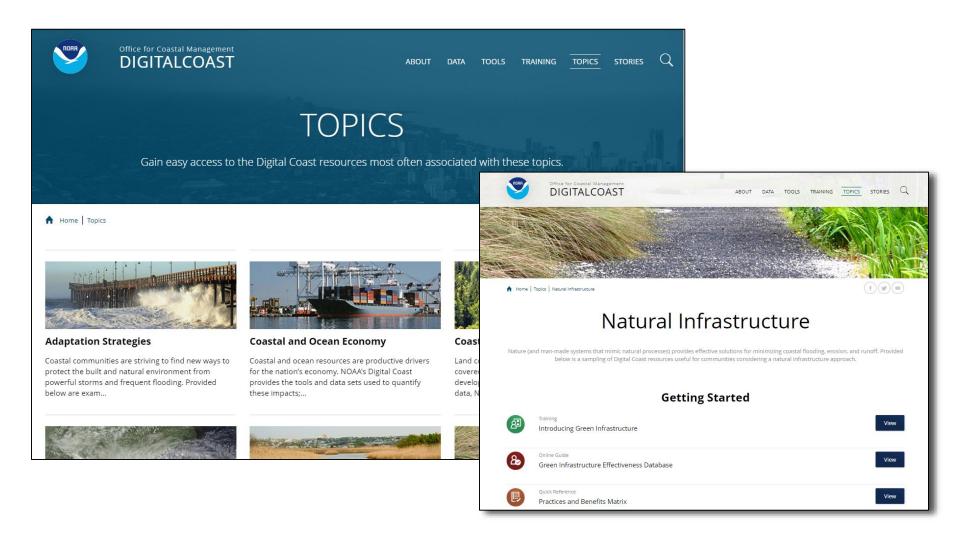
Topics and Tools

- Natural Infrastructure
 - Visualization Tools
- Digital Coast Academy

Natural Infrastructure

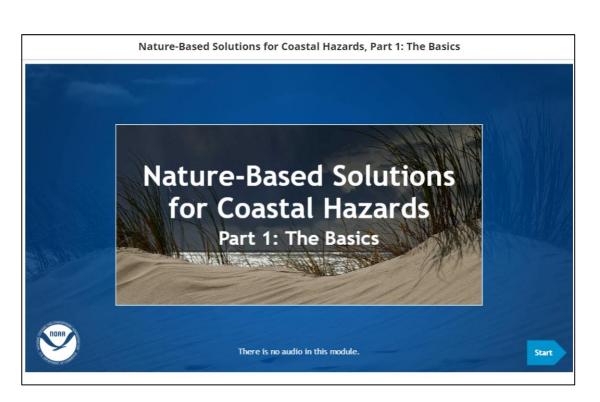


Natural Infrastructure Resources



coast.noaa.gov/digitalcoast/topics/green-infrastructure.html

Natural Infrastructure Training Nature-Based Solutions for Coastal Hazards



Part 1: The Basics (Online)

Part 2: Developing a Strategy (In-person)

coast.noaa.gov/digitalcoast/training/green.html

Natural Infrastructure Tool

Green Infrastructure Mapping Guide

Green Infrastructure Mapping Guide

This guide supports spatial analysts mapping green infrastructure for resilience to coastal hazards. The guide helps analysts incorporate green infrastructure strategies into a GIS work plan, and rank and prioritize green infrastructure for their study area.

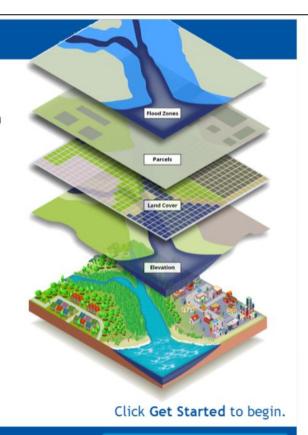
Ways to use this guide:

- Use the work plan to follow an example project and see how a spatial analyst looks at multiple criteria to generate a final prioritization layer.
- At each step, track a case study to see how others have approached the work, or access detailed guidance for completing the step.
- View or download worksheets and templates that will make the job easier. Access related resources or full case study reports.



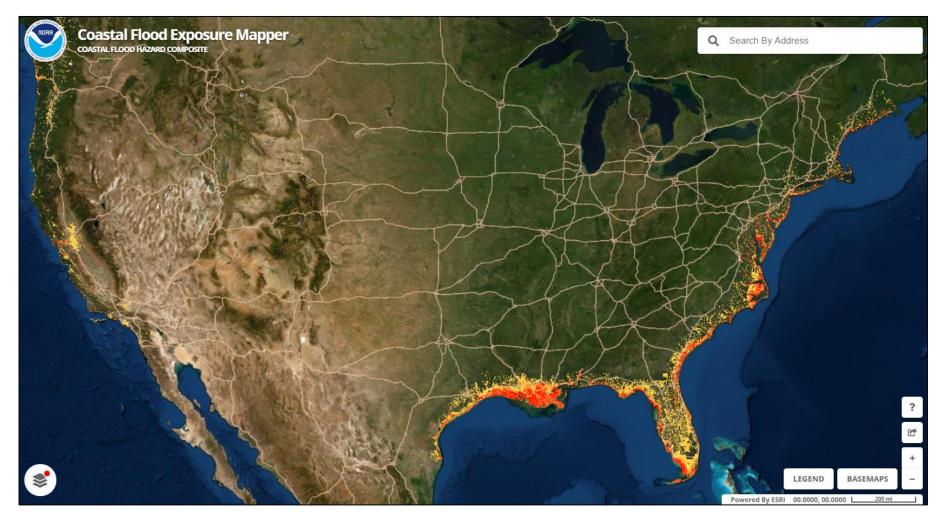
Not familiar with green infrastructure?

Watch this short animation to see how green infrastructure supports coastal communities.



Get Started >

Visualization Tools Coastal Flood Exposure Mapper



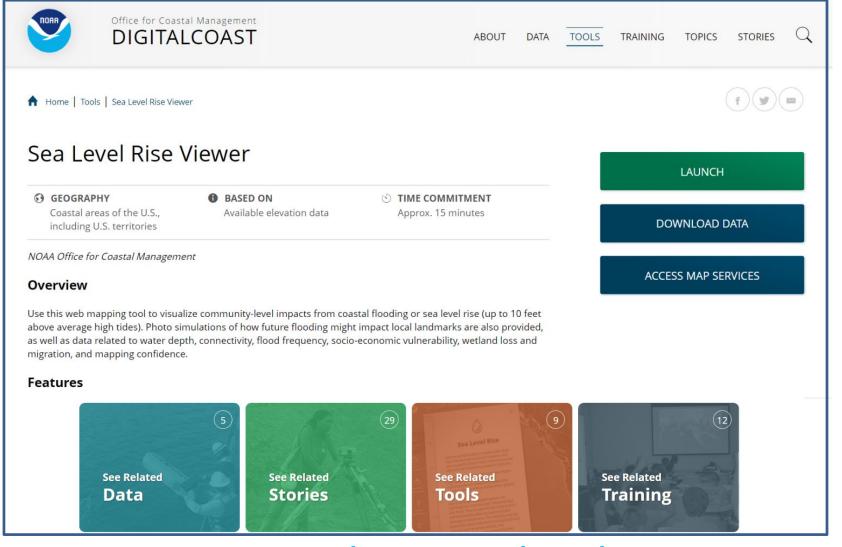
coast.noaa.gov/digitalcoast/tools/flood-exposure.html

Coastal Flood Exposure Mapper



Visualization Tools

Sea Level Rise Viewer



coast.noaa.gov/digitalcoast/tools/slr.html

Other Tools and Resources

Stories From the Field

Vulnerability Assessment: Tybee Island, Georgia

Partners: Tybee Island, Georgia Department of Natural Resources, Georgia Sea Grant – University of Georgia, Skidaway Institute of Oceanography

Products: Sea Level Rise Viewer and LIDAR Data

Outcome: The city of Tybee Island unanimously adopted an adaptation plan for current and future flooding problems.





Digital Coast Academy

Over 150 Learning Resources

- Classroom and online instructor-led
- Self-guided
- Case studies
- Publications and quick references
- Videos and webinars





Resilience Funding and Projects in the Southeast

- National Coastal Resilience Fund
- Regional Coastal Resilience Projects
- Sea Grant and Office for Coastal Management Regional Projects



National Coastal Resilience Fund

Funding available for coastal resilience projects that

 Provide communities with enhanced protection and buffering from impacts of sea level rise, changing flood patterns, coastal erosion, and increased frequency and intensity of storms;

AND

Protect and restore habitat for fish and wildlife.

nfwf.org/coastalresilience



National Coastal Resilience Fund: 2018 Southeast Projects

- Living Shorelines for North Carolina Coastal Communities (North Carolina Coastal Federation)
- Habitat Restoration of Crab Bank Island Seabird Sanctuary to Protect Coastal Shorelines (Audubon South Carolina)
- Maintaining Coastal Protection of Florida's Reefs through Restoration of Resilient Corals (Mote Marine Laboratory)
- McCoys Creek Restoration Plan for Improved Wildlife
 Habitat and Flood Management (Groundwork Jacksonville)



National Coastal Resilience Fund: 2019 Southeast Projects

- City of Tybee Island Coastal Marsh and Community Resilience Adaptation (City of Tybee Island)
- Coastal Wetland Restoration and Community Resiliency in West Ashley, City of Charleston (Georgia Tech Research Corp.)
- Using Coral Reef Restoration to Enhance Coastal Resilience of South Florida Shorelines (University of Miami)
- Improving Natural Infrastructure in Currituck Sound, North Carolina (National Audubon Society)
- Re-naturalizing the Church Creek Drainage Basin (City of Charleston, South Carolina)



Regional Coastal Resilience Projects

Post-Disaster Planning in Georgia coastalgadnr.org/DRRP

Southeast and Caribbean Disaster Resilience Partnership





Regional Projects Supported by Sea Grant and Office for Coastal Management

Legal Analysis: State and Local Governments Facing Sea Level Rise in the Southeast (Complete)

Quantifying Impacts of Coastal Flooding on Access to Public and Private Infrastructure and Resulting Economic Impacts (Spring 2020)





For more information or to request a briefing, please contact Congressional Affairs Specialist Melanie Jackson at Melanie.Jackson@noaa.gov

