



# **Florida Resilient Coastlines Program: Achieving Coastal Resilience Together**

**Whitney Gray, Administrator FRCP**  
**Office of Resilience and Coastal Protection, Tallahassee**  
**(850) 245-2098 [Whitney.Gray@FloridaDEP.gov](mailto:Whitney.Gray@FloridaDEP.gov)**



# Building on a Strong Foundation

## *Community Resiliency Initiative*

**Starting in 2011 – in partnership with NOAA Coastal Zone Management Act – the Florida Department of Environmental Protection funded the Department of Economic Opportunity to provide technical assistance to coastal communities for innovative planning and development strategies:**

- Funding opportunities
- Statewide focus group
- Developing and piloting Adaptation Action Areas
- Vulnerability Assessments and Adaptation Plans for three pilot areas
- Developing technical assistance documents





# Florida Resilient Coastlines Program

## *Vision and Mission*

**Synergizing community resilience planning, natural resource protection tools and funding to prepare Florida's coastal communities for the effects of climate change, especially coastal flooding, erosion and ecosystem changes from sea level rise.**

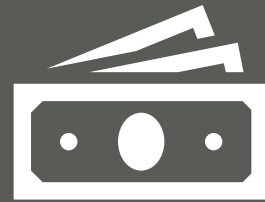


# Florida Resilient Coastlines Program



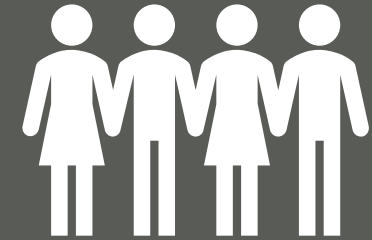
## RESOURCES

Florida Adaptation Planning  
Guidebook & Technical  
Assistance



## FUNDING

Resilience Planning &  
Implementation Grants

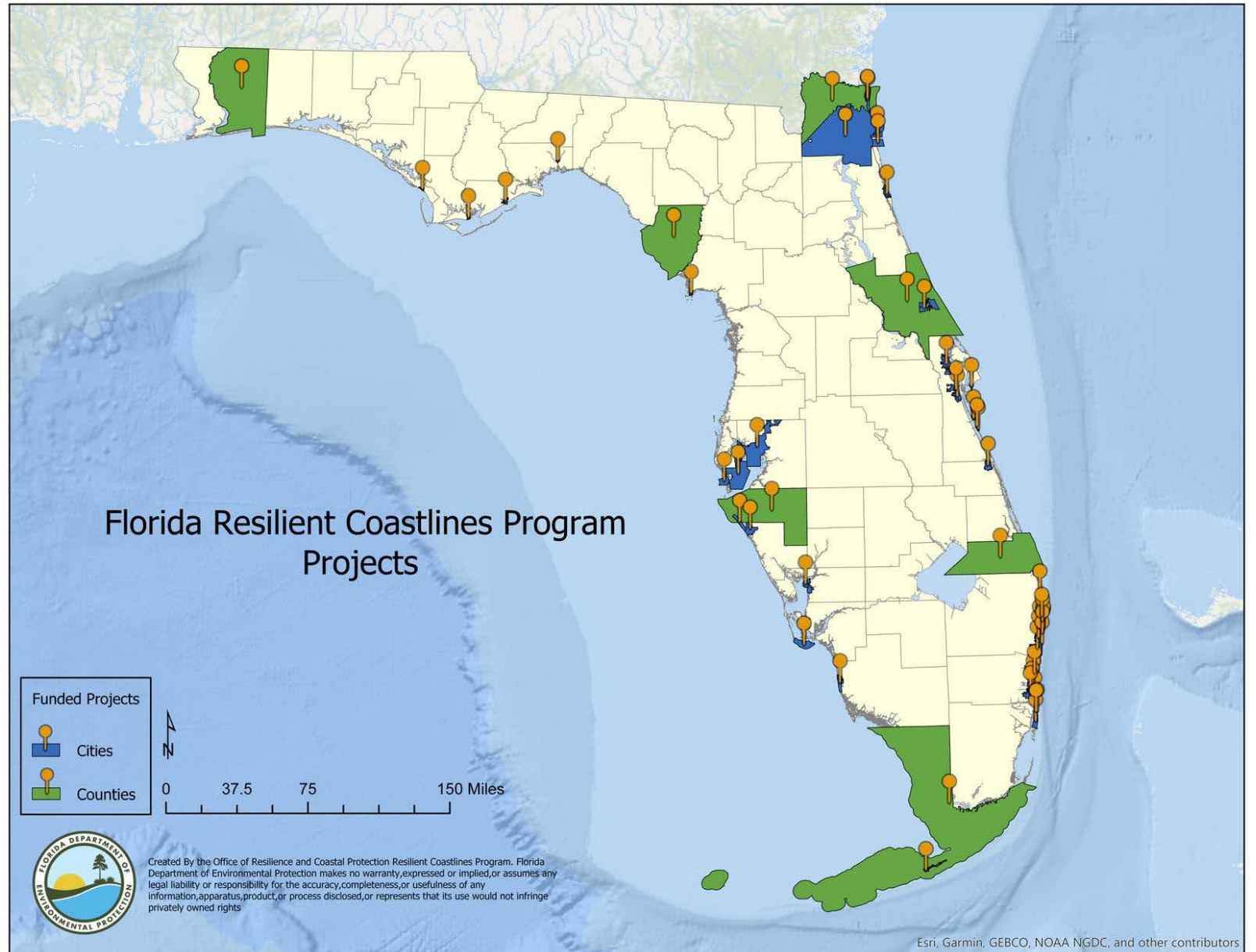


## COORDINATION

Quarterly Coastal  
Resilience Forum



- **60 Community Projects**
  - **14 Counties**
  - **46 Cities**





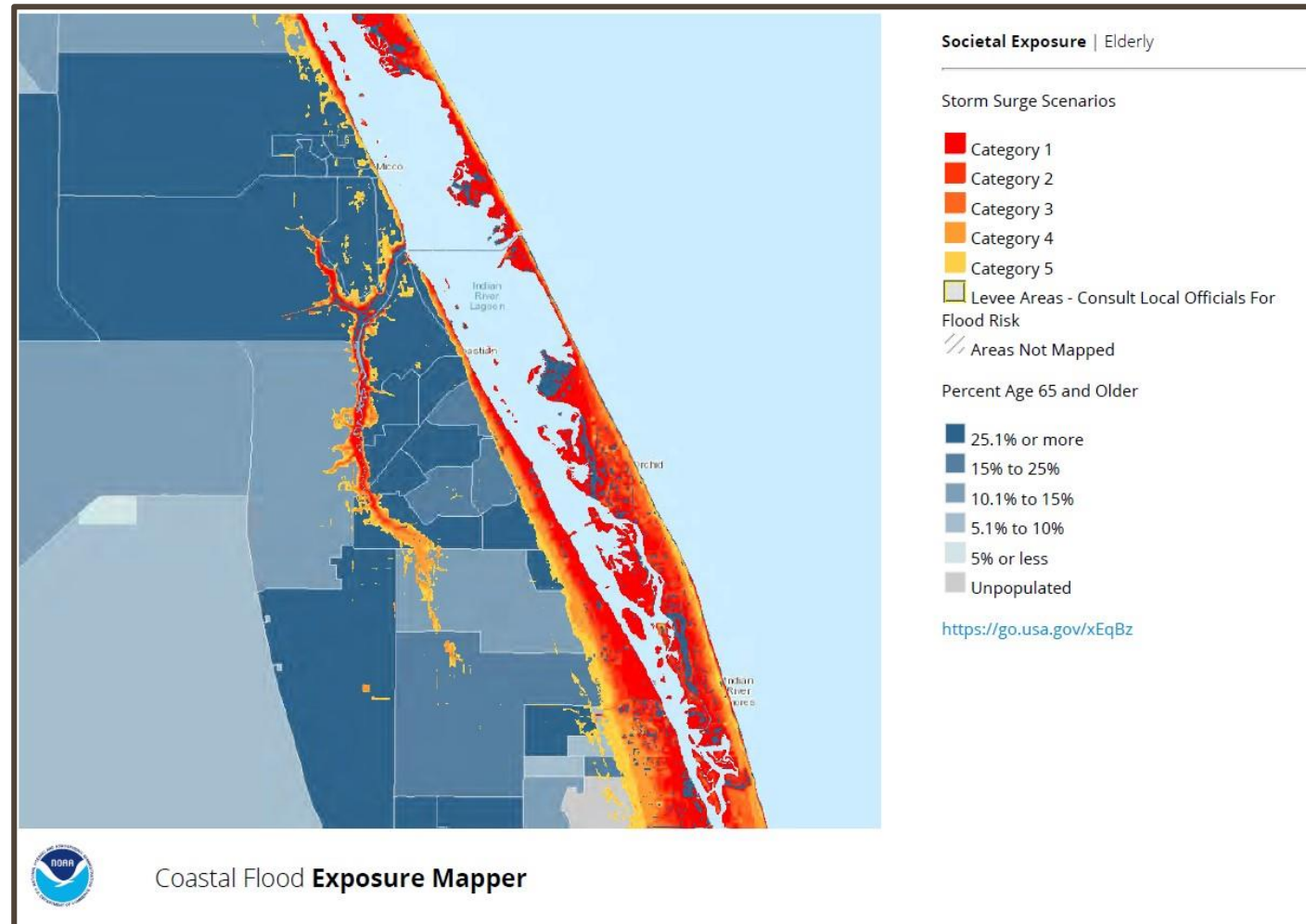
# Funding Sources & Amounts

- Funding through Florida Coastal Management Program from NOAA
  - 306 program: **\$325,001**
  - 309 Adaptation Action Initiative Strategy: **\$829,784**
- Funding from Florida's Governor and Legislature: **\$3,296,230**
- Total through FY 2019-2020: **\$4,451,016**



# All Project Types

- **Vulnerability Assessments**
  - Peril of Flood Statute (163.3178(2)(f) F.S.)
  - Stormwater Management Systems
  - Historic Resources
- **Adaptation/Resilience Plans**
- **Implementation of Plans**
  - Living Shorelines
  - Stormwater Outfalls





# Using the Peril of Flood Statute to Improve Coastal Resilience

- 2015 law requires consideration of current and future flooding from storm surge and *sea level rise* in the coastal management element of comprehensive plans.

- Must include development, strategies, and engineering in coastal areas which result in flash floods, stormwater runoff, and sea level rise.

**ADAPTATION**





# Using the Peril of Flood Statute to Improve Coastal Resilience

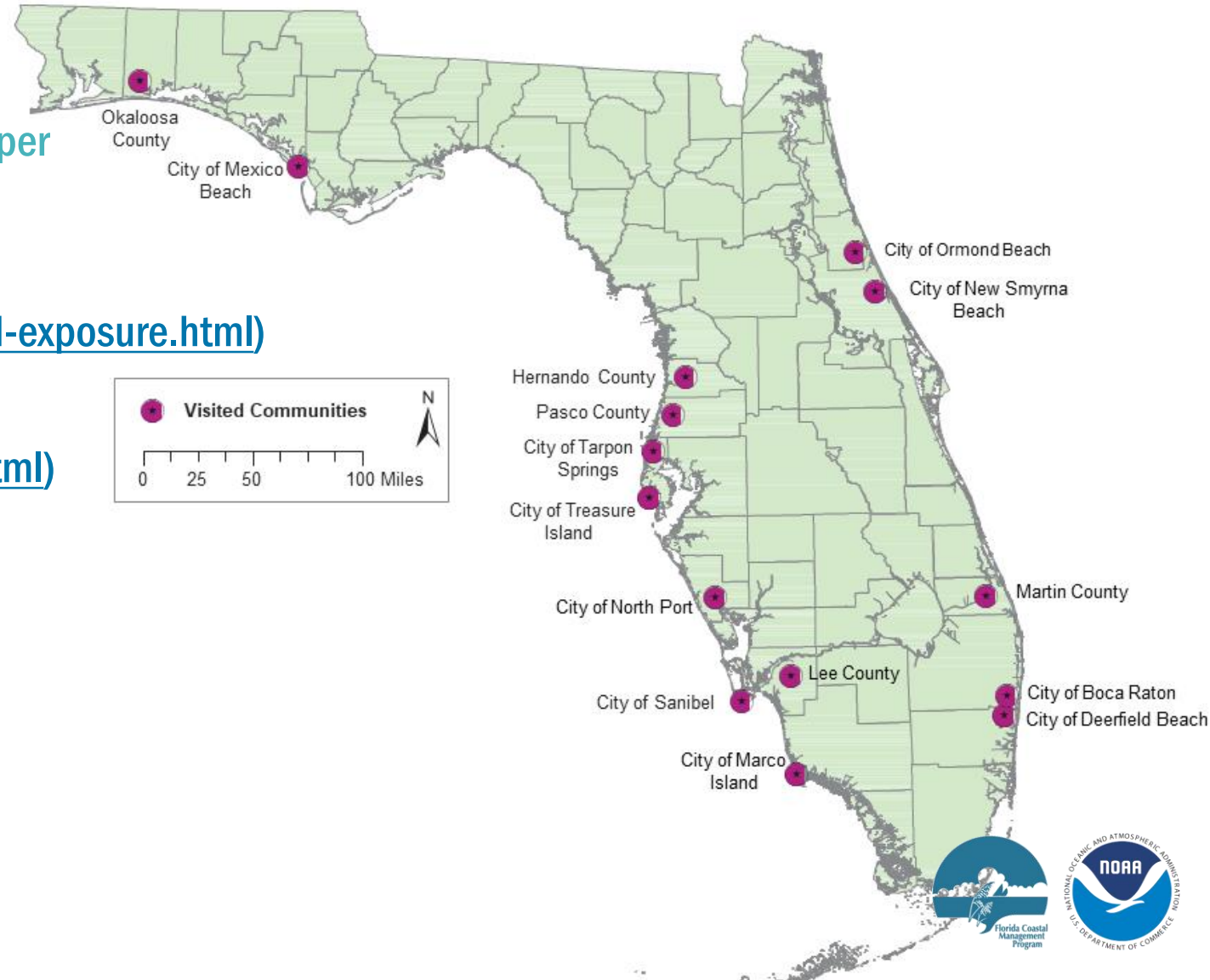
- **211 Florida communities have a coastal management element/are required to complete the Peril of Flood analyses.**
  - **35 Counties**
  - **174 Cities**
- **DEP has funded 29 of these communities, about 35% of those that have submitted their analyses to DEO.**



# Technical Assistance

## *Outreach to Local Governments*

- The Nature Conservancy's Coastal Resilience Mapper (<http://maps.coastalresilience.org/network/>)
- NOAA's Coastal Flood Exposure Mapper (<https://coast.noaa.gov/digitalcoast/tools/flood-exposure.html>)
- NOAA's Sea Level Rise Viewer (<https://coast.noaa.gov/digitalcoast/tools/slr.html>)
- UF GeoPlan/FDOT Sea Level Sketch Planning Tool (<http://sls.geoplan.ufl.edu/#intro>)
- GulfTREE (<http://www.gulftree.org/>)
- [Joseph.Bauer@FloridaDEP.gov](mailto:Joseph.Bauer@FloridaDEP.gov)

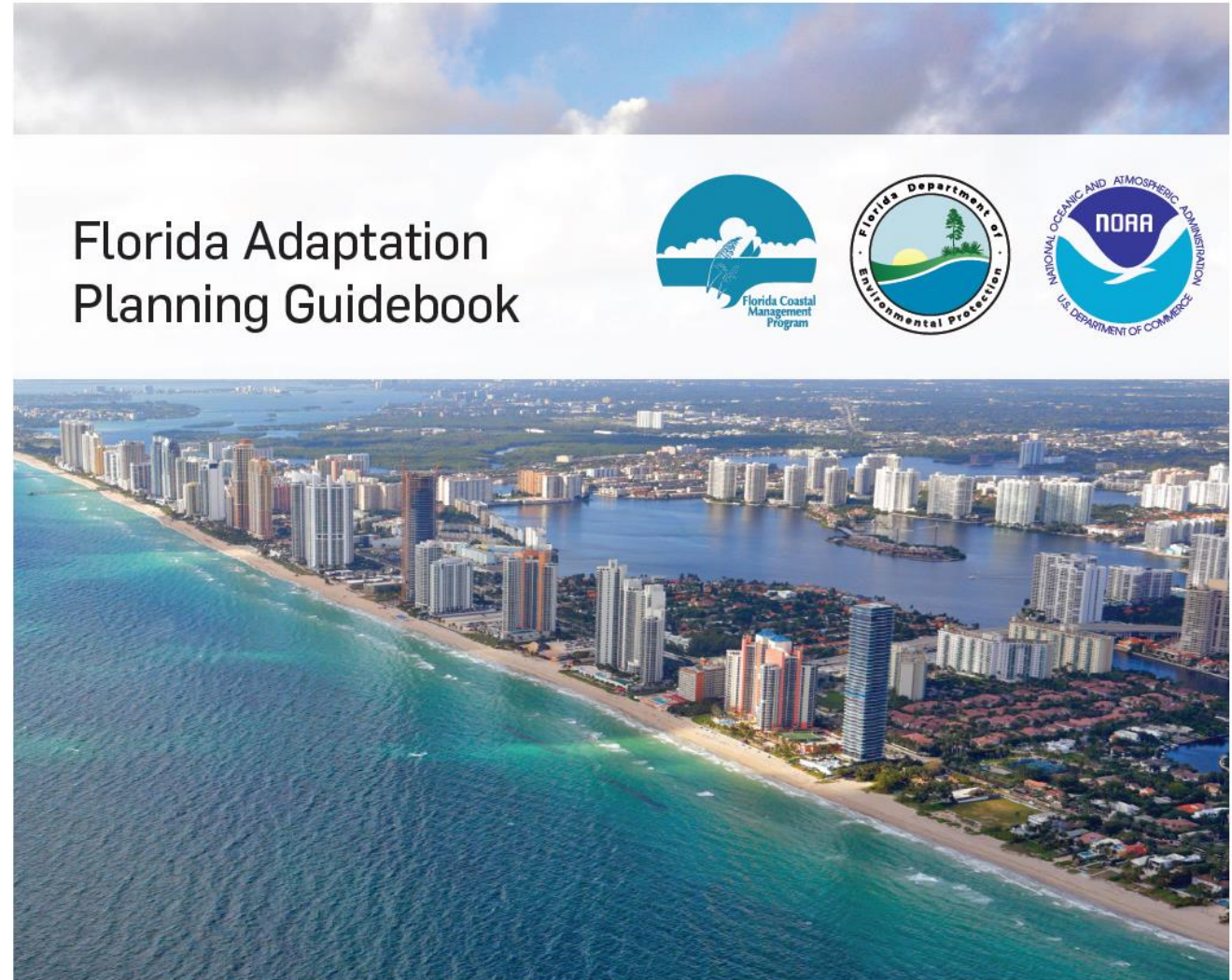




# Technical Assistance

## *Focused on Adaptation*

- Establishing Context
- Vulnerability Assessment (VA)
- Adaptation Strategies
- Implementation of Adaptation Strategies
- Specialty Topics
  - Economic Value of Adaptation Planning
  - Community Rating System and Adaptation
  - Historic and Cultural Resources
  - Adaptation Action Areas to Protect Natural Resources
- Funding Opportunities
- Example VA and Adaptation Plan





# Coordination



## *Coastal Resilience Forum*

<https://floridadep.gov/fco/florida-resilient-coastlines-program/content/quarterly-resilience-forum>

- ACOE
- AECOM
- American Planning Association
- Apalachee RPC
- Apalachicola Riverkeeper
- ARPC
- Audubon Florida
- BRACE
- Brevard County
- Brizaga/Sea Level Rise Ready
- Broward County
- Broward MPO
- Calusa Waterkeeper
- CFRPC
- City of Cape Coral
- City of Clearwater
- City of Crystal River
- City of Fernandina Beach
- City of Ft. Lauderdale
- City of Hallendale Beach
- City of Jacksonville
- City of Jacksonville Beach
- City of Miami
- City of Miami Beach
- City of Naples
- City of Punta Gorda
- City of Satellite Beach
- City of St. Augustine
- City of West Palm Beach
- Coastal Waterways
- Collier County
- Collier County Waterkeeper
- Conservancy of SW Florida
- Deady Law
- DEM
- DEO
- DEP
- Dewberry
- DOS
- East Central Florida Regional
- Planning Council
- Emerald Coastkeeper
- FAU
- FDOT
- FEMA
- FGCU
- FIND
- FIU
- FDACS
- Fla Sea Grant
- Flagler County
- Florida League of Cities
- Florida Chamber of Commerce
- Florida Climate Institute
- Florida Earth Institute
- FRCA
- FSU
- FSU Center for Ocean-Atmospheric Prediction Studies
- FSU Law
- FWC
- GCFI
- Gulf Archaeology Research Institute
- Hillsborough County
- Institute for Sustainable Communities
- IRLNEP
- Kennedy Space Center
- Lake Worth Waterkeeper
- Martin County
- Matanzas Riverkeeper
- Miami Waterkeeper
- Miami-Dade County
- Monroe County
- Nassau County
- NC Division of Coastal Management
- NCFRPC
- NEFRPC
- NOAA
- NOAA/ANERR
- NOAA/GTM
- NOAA/RBNERR
- North Florida Land Trust
- NWFWMD
- Palm Beach County
- Pasco County
- Pinellas County
- RBNERR
- RWParkinson Inc
- Sanibel-Captiva Conservation Foundation
- Sarasota Estuary Program
- Sea Turtle Conservancy
- SEFRCC
- SFRPC
- Southwest Florida Community Foundation
- St. John's Riverkeeper
- Stearns Weaver
- Stetson University
- Suncoast Waterkeeper
- SWFRPC
- Tampa Bay Waterkeeper
- Taylor Engineering, Inc.
- TBEP
- TBRPC
- TCRPC
- The Nature Conservancy
- TNC
- Tortoise Island
- UF
- UF (Geology)
- UF (planner)
- UF Geoplan
- UF/IFAS Extension-Florida Sea Grant
- USACE
- USF
- WFRPC
- Youth Environmental Alliance



# Where do we go from here?

- **State of Resilience Report – Coming Soon**
  - **Comprehensive look at Peril of Flood and other resilience initiatives across the state**
- **Florida Climate Assessment – 2020?**
  - **Cross-sectoral/cross-regional evaluation of effects of climate change on Florida**
- **Multi-year Climate Action Plan – 2023?**



Miami Herald

[FloridaDEP.gov/resilience](https://FloridaDEP.gov/resilience)



**Thank you!**

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