

South Florida and Treasure Coast Regional Planning Councils – Joint Meeting



SFWMD Update on Southeast Florida
Restoration & Flooding Resiliency Studies
Projects, Timelines

PRESENTED BY:

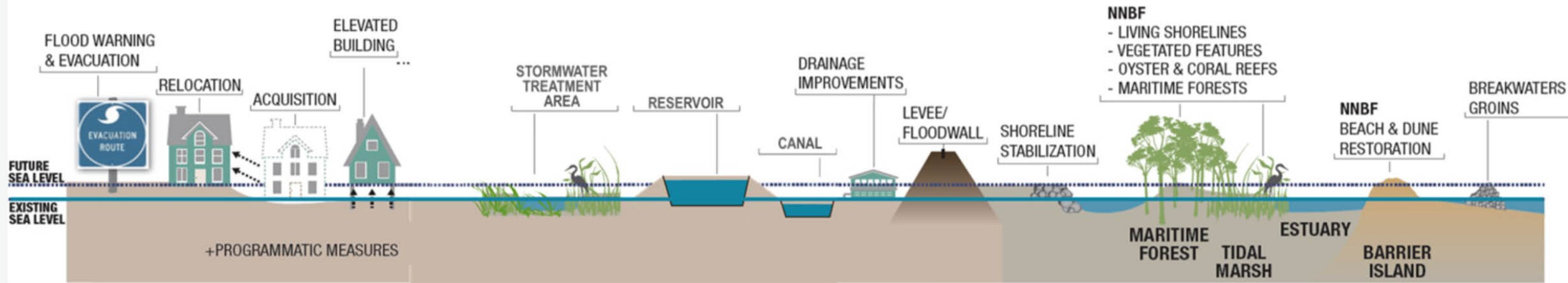
John Mitnik, P.E., Assistant Executive Director and Chief Engineer
Carolina Maran, P.E., Ph.D., Chief of District Resiliency
South Florida Water Management District
February 2025



Integrating Local, Regional, Natural, Inland Drainage and Coastal Flood Resiliency Strategies

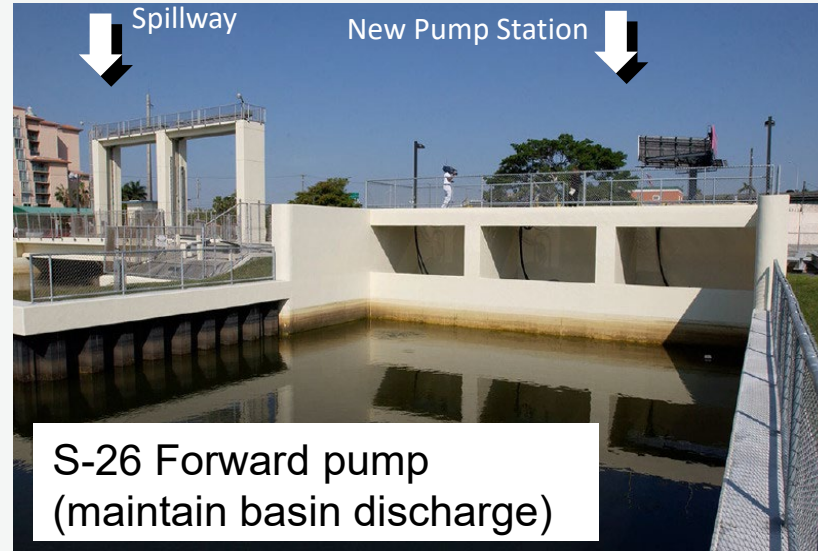
POTENTIAL MEASURES TO IMPROVE RESILIENCE AND SUSTAINABILITY

Graphic modified from https://ewn.el.erdc.dren.mil/nnbf/other/5_ERDC-NNBF_Brochure.pdf



**Need BOTH Structural Measures & Non-Structural Measures
(Moving Flood Risk Away from Communities & Living with the Water)
Along with Nature Based Features**

Examples of Flood Mitigation Solutions





Reducing the risks of flooding, sea level rise and other climate impacts on water resources and increasing community and ecosystem resiliency in South Florida

2025: 5th Year New Update Interval

2024 SEA LEVEL RISE AND FLOOD RESILIENCY PLAN

Building Resilience and Mitigating Risks to South Florida's Water Resources

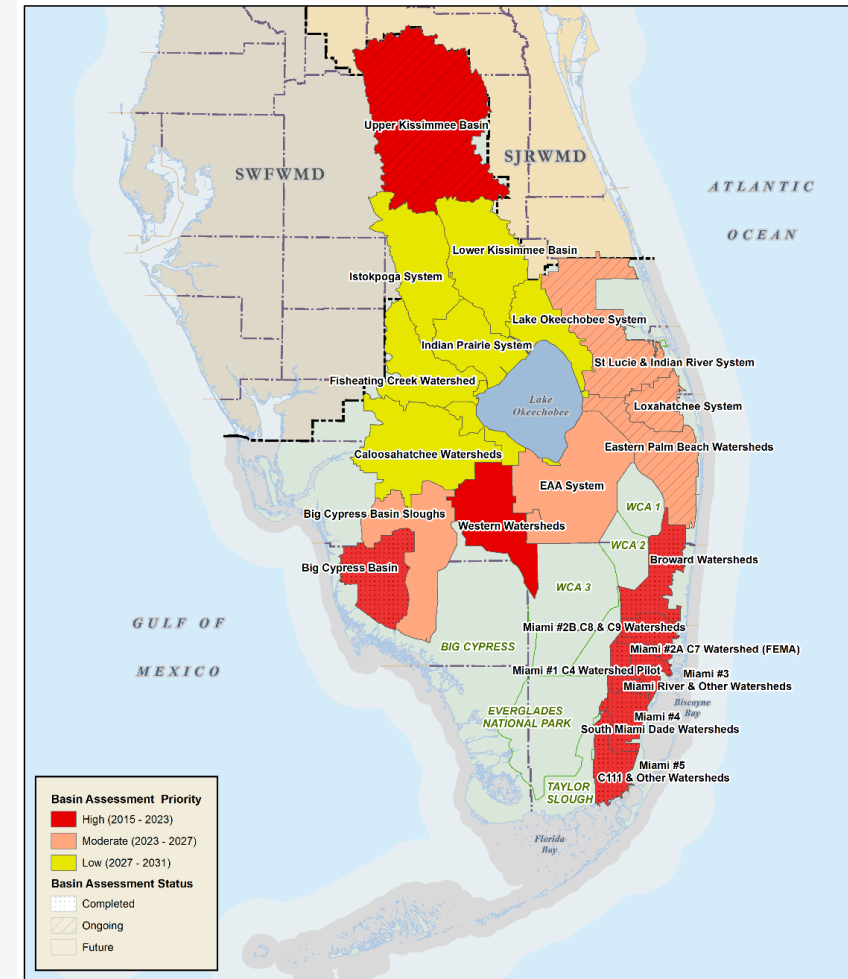
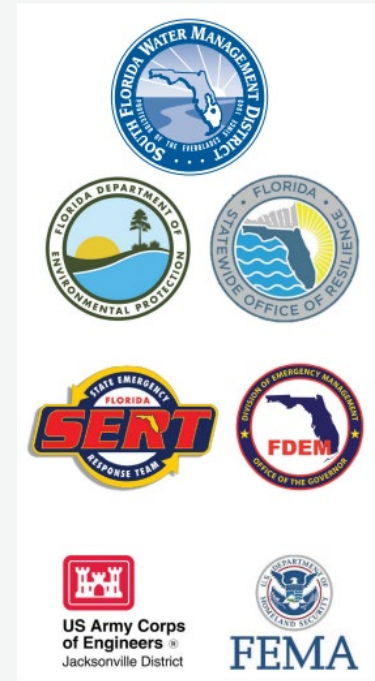
FINAL SEPTEMBER 1, 2024



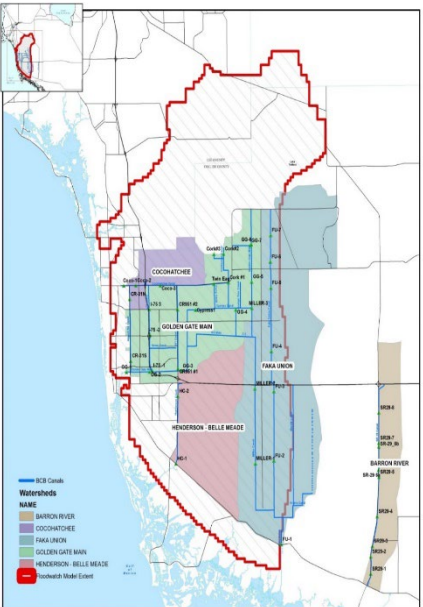
Flood Protection Level of Service (FPLoS) Program

The SFWMD's strategy for assessing system wide flood protection for current and future conditions, the impacts of land development, sea level rise and changing climate on flood control infrastructure.

- Pre-defined performance metrics
- Support decision making on prioritizing and sequencing infrastructure investments through various funding opportunities:
 - C&SF Flood Resilience
 - FEMA BRIC
 - FDEM
 - Resilience Florida
 - HMGP – Post-storm program



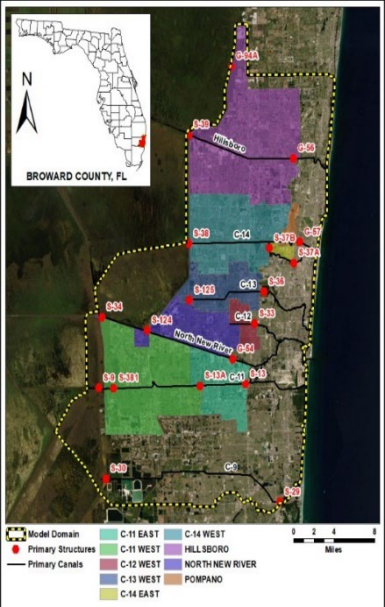
Completed FPLOS Studies



Lead PM: K. Konyha & Ken Feng

BCB FPLOS Project

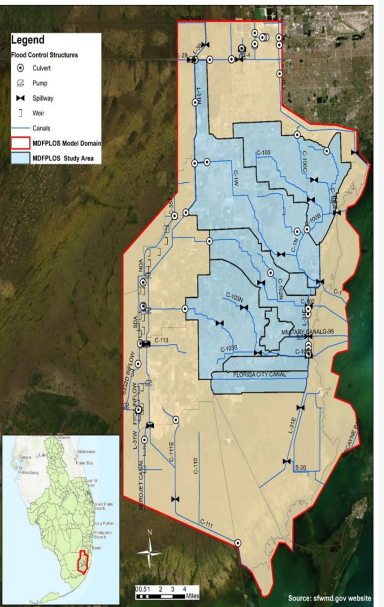
Completed: September 2018



Lead PM: H. Zhao

FPLOS for Nine Basins in Broward County

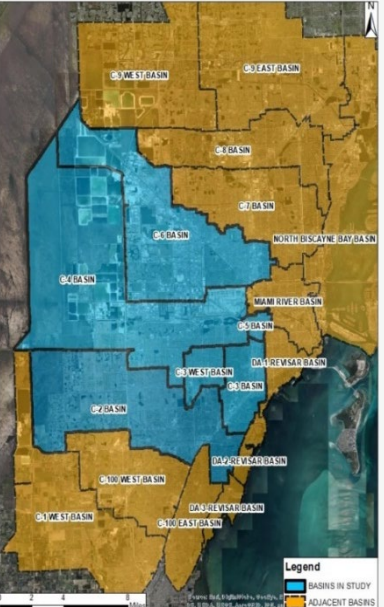
Completed: September 2021



Lead PM : L. Brion

FPLOS for C-1, C-100, C102, and C-103 Basins

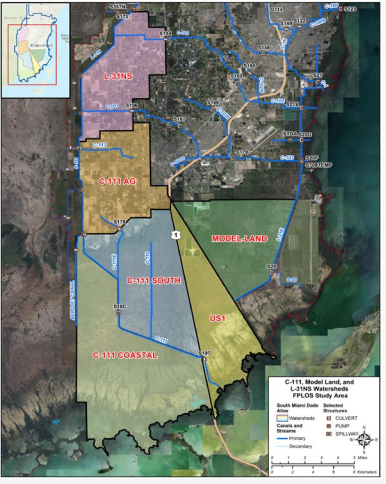
Completed: September 2021



Lead PM : R. Arteaga

C2, C3W, C4, C5 and C6 Watersheds

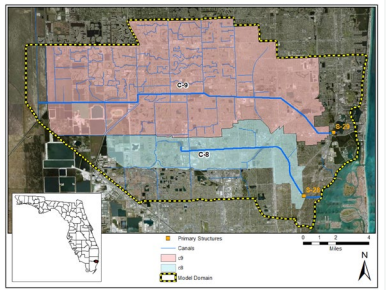
Completed: September 2022



Lead PM : C. Ballard

C-111, Model Land, and L-31NS Watersheds

Completed: December 2023



Lead PM: H. Zhao

C8/C9 Basins FPLOS Phase I

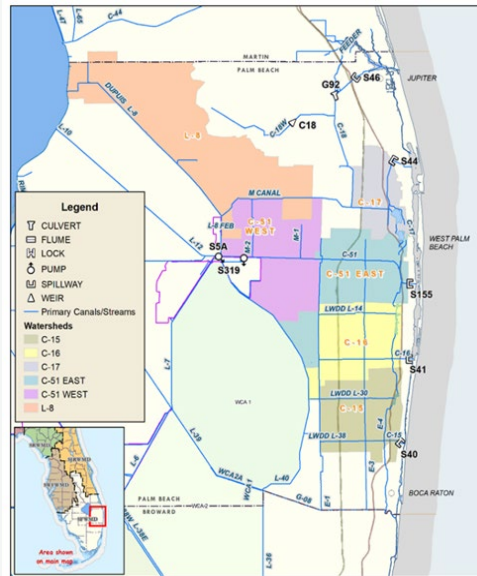
Completed: January 2021

C8/C9 Adaptation & Mitigation (Phase II)

Completed: July 2023



Ongoing FPLOS Studies



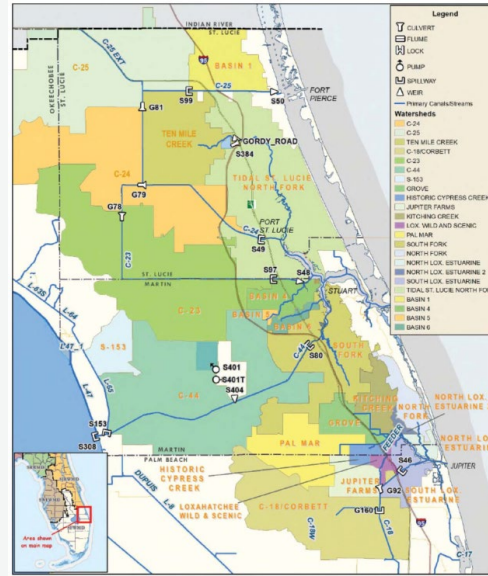
Leading PM: S. Haji Mirzaie
Eastern Palm Beach County

Completion date: March 2025



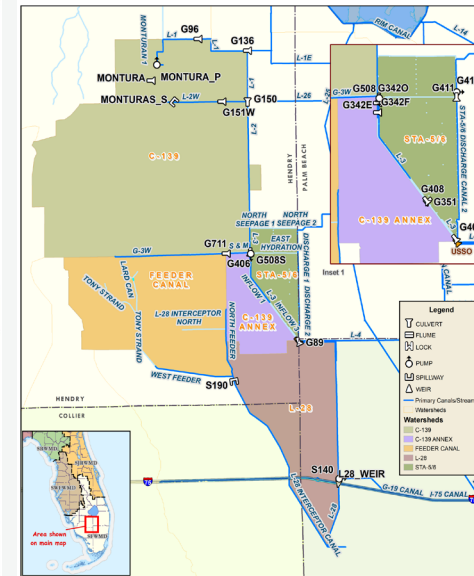
Leading PM: S. Nair
Upper Kissimmee Basins

Completion date: April 2025



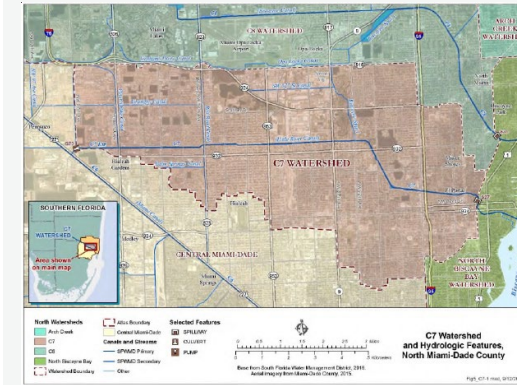
Leading PM: S. Haji Mirzaie
St Lucie/Indian River and Loxahatchee System

Completion date: Sep. 2025



Leading PM: H. Zhao
Western Basins

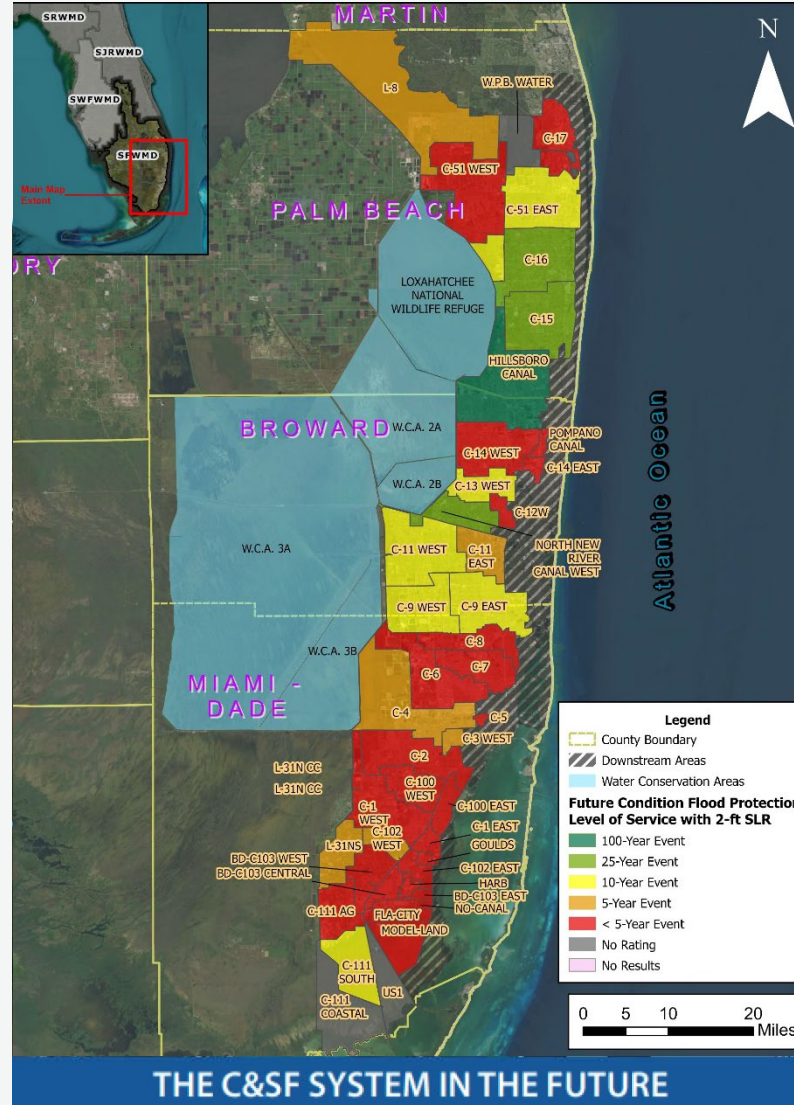
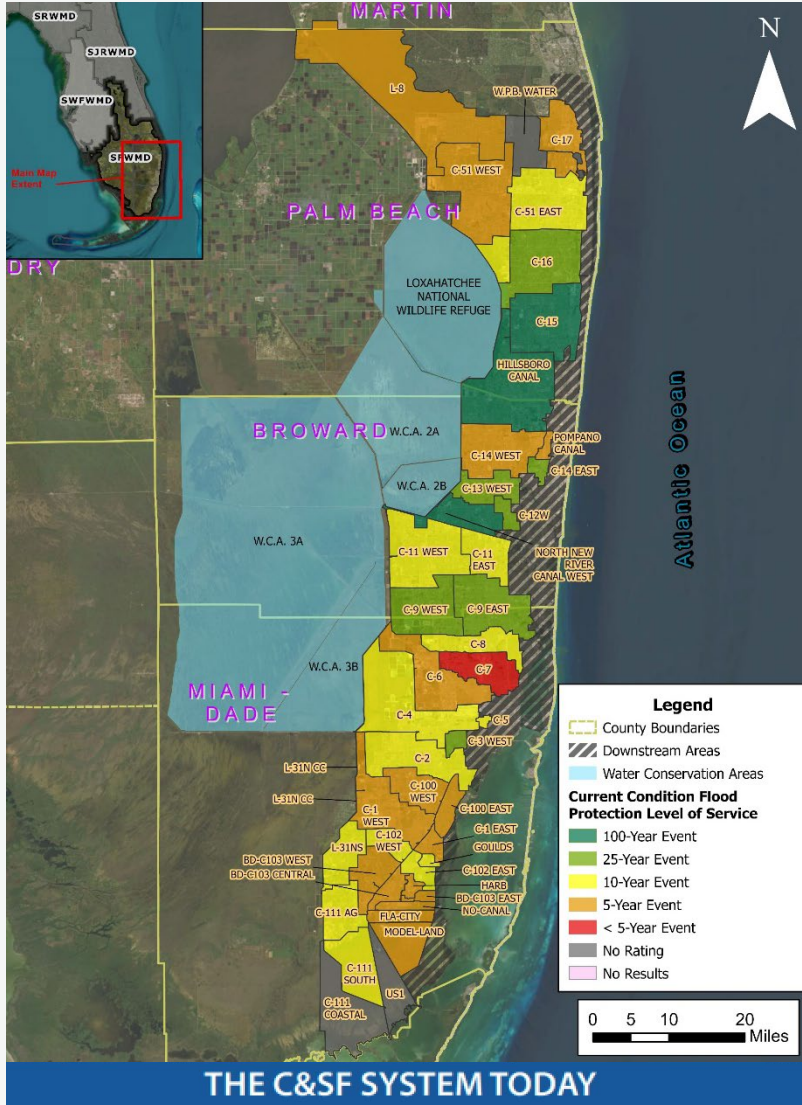
Completion date: April 2025



Leading PM: A. Springston
C7 Adaptation and Mitigation Study

Completion date: Sep. 2025

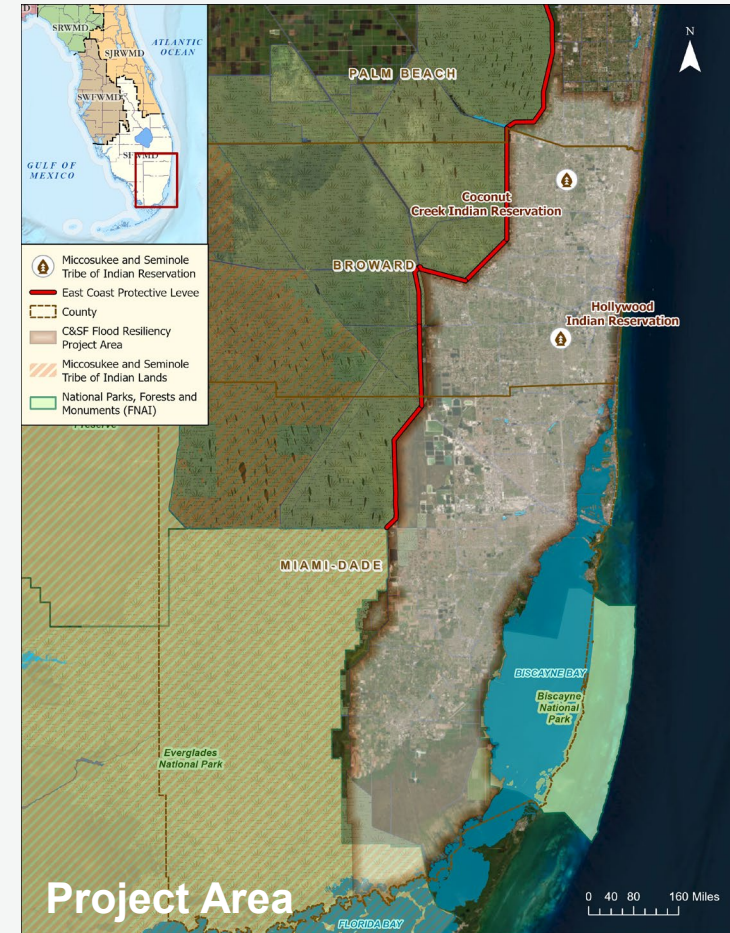
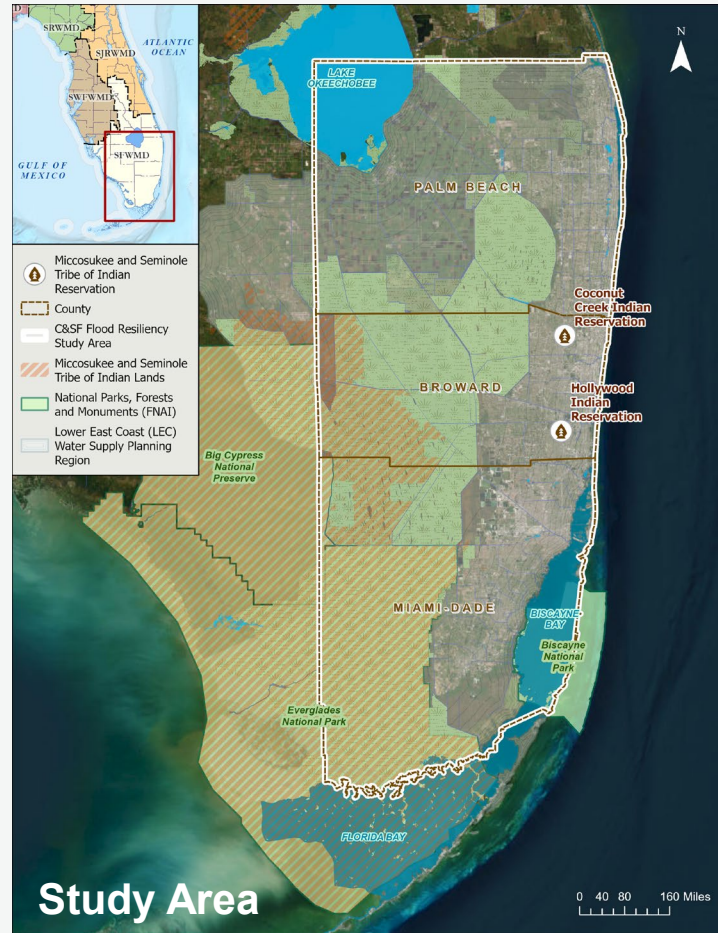
FPLOS Results – Current and Future Conditions



C&SF Flood Resiliency Study

Under the Authority of Section 216 of the Flood Control Act of 1970

- Reduce flood risk and increase flood resiliency in high-risk urban watersheds in southeast Florida, while looking to enhance the overall benefits of the multipurpose C&SF Project
- Enhance SEFL Communities
- Ongoing study phase: Future Without Scenarios – Flood Vulnerabilities & Total Benefits
- Upcoming C&SF Comprehensive Study

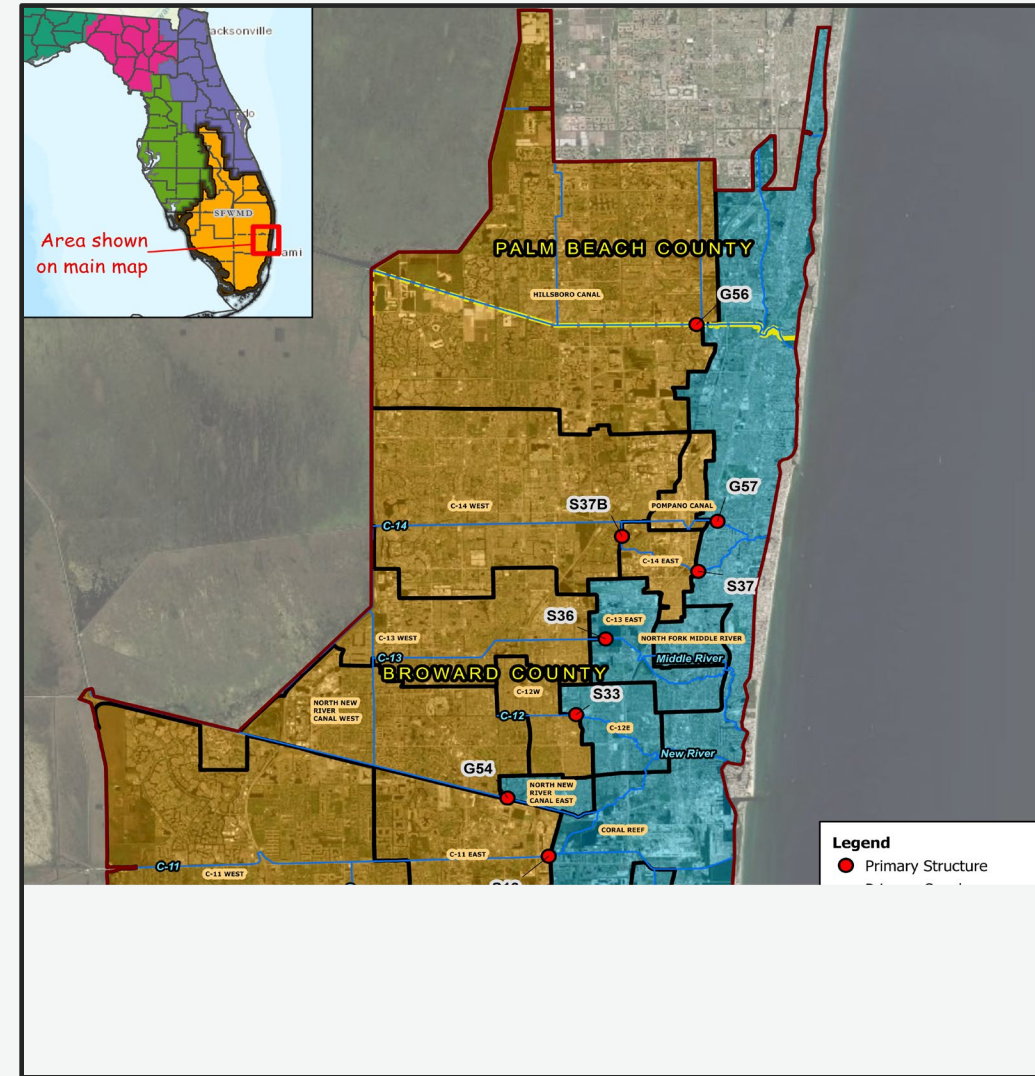




C&SF Flood Resiliency Study for Broward Basins (Section 203)

Project Study Area

- Nine watershed basins
- Nine managed primary canals/rivers
- Eight coastal water control structures
- Other non-managed watersheds downstream of coastal water control structures



Project Study Area – Reach A



C&SF Flood Resiliency Basins

MOAs & SOWs

- Federal Activities by Corps
- Technical Assistance from Corps

Interlocal & Grant Agreements

- Broward County
- FDEP

Consulting Contracts

- J-Tech (FS, EIS reports; Initial Design)
- H&H Modeling Efforts (Hazen & Sawyer, Taylor)
- Economic Analysis
- Independent Reviews



DEPARTMENT OF THE ARMY
OFFICE OF THE ASSISTANT SECRETARY
CIVIL WORKS
108 ARMY PENTAGON
WASHINGTON, DC 20310-0108

August 22, 2024

Mr. Drew Bartlett
Executive Director
South Florida Water Management District
3301 Gun Club Road
West Palm Beach, Florida 33406

Dear Mr. Bartlett:

Thank you for your letter, dated July 17, 2024, informing my office of South Florida Water Management District's (SFWMD) intent to prepare a feasibility study for the Central and Southern Florida Flood Resiliency Study, Reach A (Broward and Hillsboro Basins) under Section 203 of the Water Resources Development Act of 1986, as amended ("Section 203 Study"), and offer to provide funds for the Government to undertake Federal Activities and Technical Assistance for the Section 203 Study.

Jacksonville District may accept SFWMD funds to undertake Federal Activities and Technical Assistance in accordance with Section 203. I will instruct the Jacksonville District Commander to develop and negotiate a Memorandum of Agreement (MOA) for Federal Activities, an MOA for Technical Assistance, and scopes of work to be executed under both MOAs, to be approved by the South Atlantic Division Commander. No credit or repayment shall be provided for any funds provided for the Federal Activities or Technical Assistance. Please note that the Section 203 authority does not enable the U.S. Army Corps of Engineers to conduct project planning for this study on your behalf.

My staff is available to discuss Section 203 study requirements or procedures at any time. My point of contact for Section 203 studies is Ms. Andrea Walker at andrea.e.walker.civ@army.mil.

Thank you for your support of the Army Civil Works program.

Sincerely,

Michael L. Connor
Assistant Secretary of Army
(Civil Works)

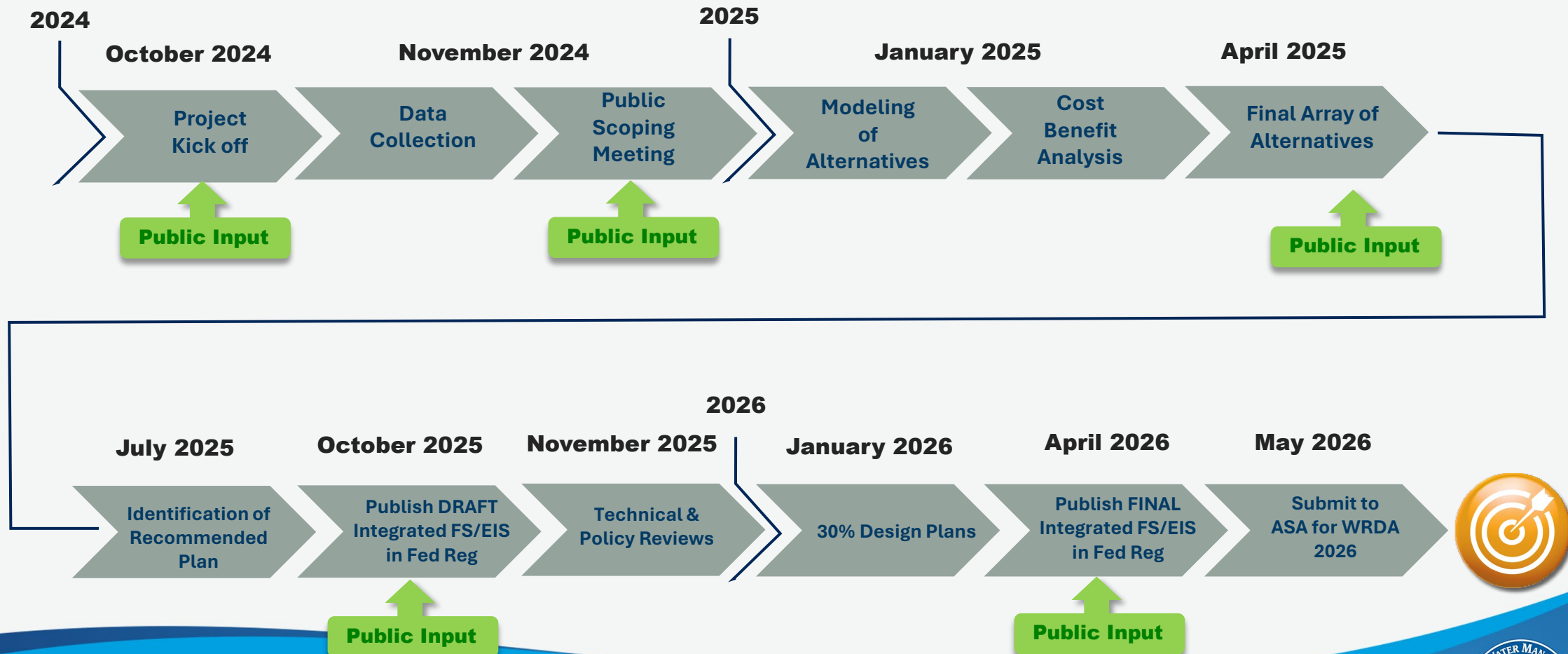




Project Schedule

Targeting March 2026

Deliver Final Feasibility Report and Environmental Impact Statement to ASA Civil Works

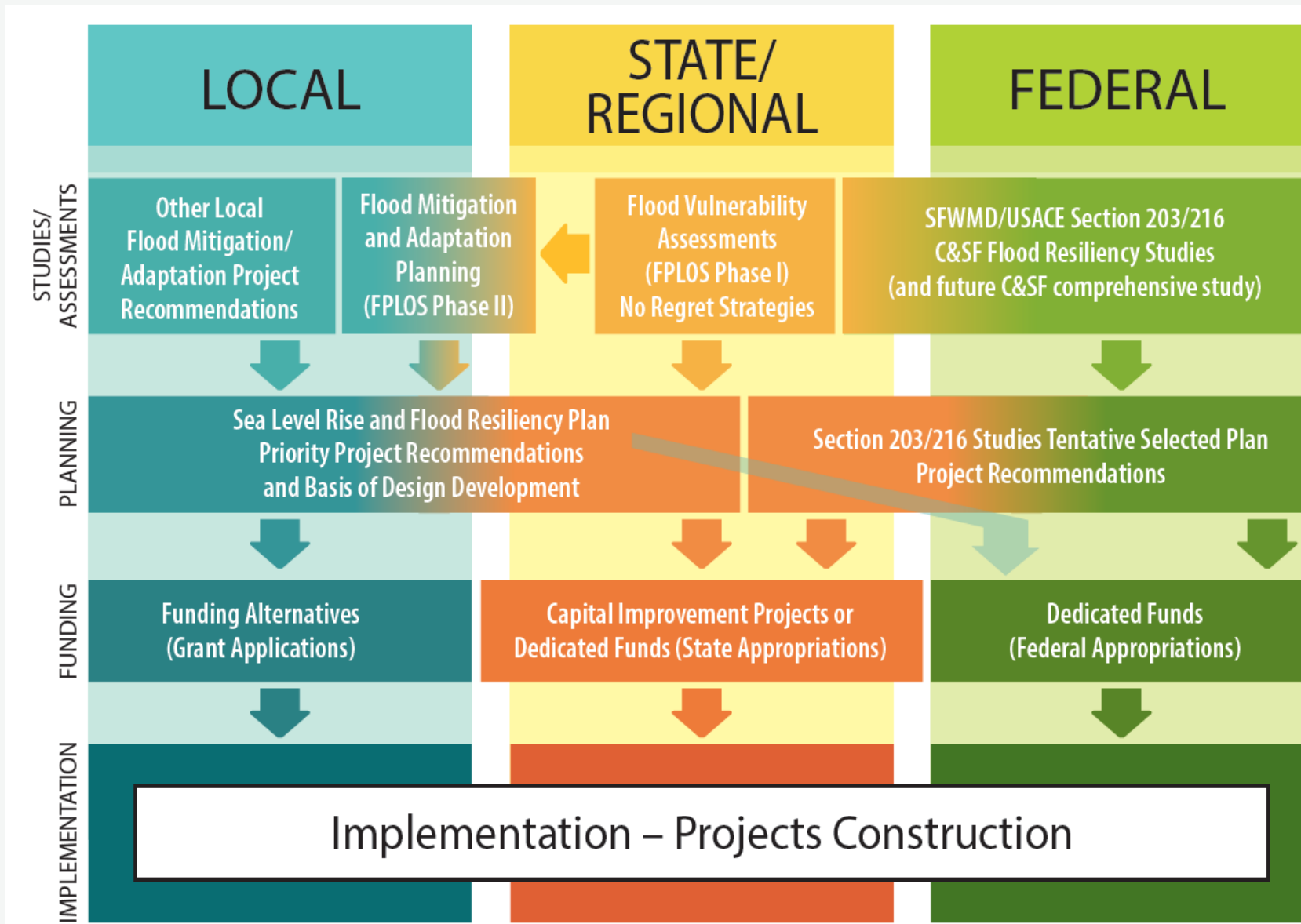


Flood Control Funding Sources

- Ad Valorem
- U.S. Army Corps of Engineers Planning Studies
- Senate Bill 1638 - General Revenue
- Federal Emergency Management Administration - Building Resilient Infrastructure and Communities and Mitigation Grants
- Florida Department of Environmental Protection - State Resiliency Program



Gov. Ron DeSantis signed Senate Bill 1638 at the SFWMD's Ft. Lauderdale Field Station on April 4, 2024



Wet & King Tide Season Preparation

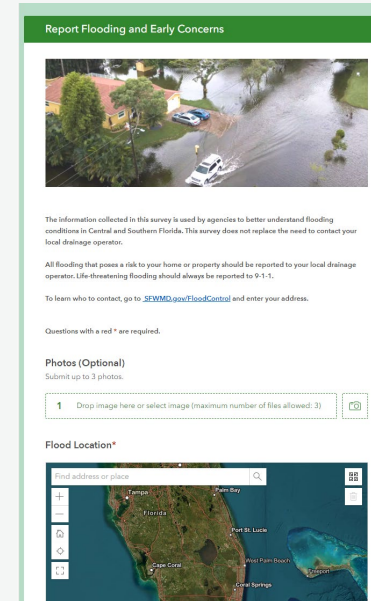
Flood Specific Tools & Resources

- Access Flood Observations: sfwmd.gov/FloodResources
- Submit real-time flood data: sfwmd.gov/FloodingApp

Tidal Predictions

- Stay informed on high tide events: sfwmd.gov/HighTidePredictions

Flood Observations and High-Water Mark Collection Training Coming Up in April



South Florida Flood Information Resource

A resource for collecting and consolidating flood observations to help us better understand evolving flood patterns associated with King Tides, Rainfall, Tropical Storms, Hurricanes and Storm Surge.

Local Contact Viewer

Who to Contact about Flooding in your area:

Use this application to enter an address or location and be returned contact information for local governments and 298 / Special Districts responsible for addressing flooding at this location.

Photos and Flood Observations:

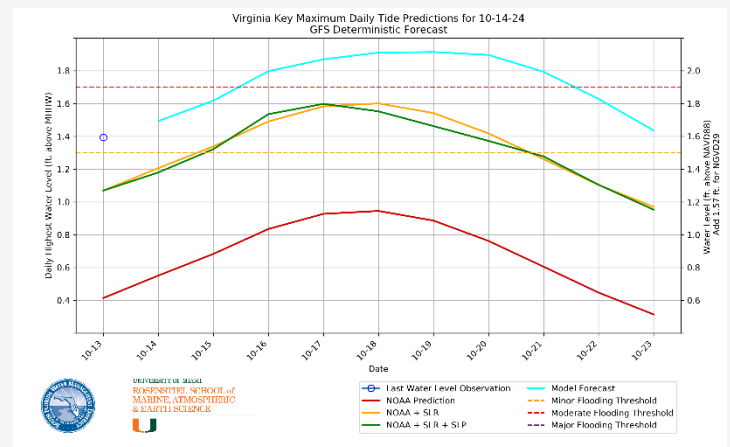
Click or scan this QR code to upload photos or submit information about flooding and/or flooding concerns in your area.

To provide information and photos for past events, please contact Resiliency@sfwmd.gov.

Flood Information and Current Event Viewers: Simple viewer applications designed for exploration of publicly shared Flood Information Repository content.

Flood Information Viewer

Current Event Viewer





2025 Resiliency Coordination Forum Schedule

JANUARY	FEBRUARY	MARCH
S M T W T F S 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31	S M T W T F S 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28	S M T W T F S 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31
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JULY	AUGUST	SEPTEMBER
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OCTOBER	NOVEMBER	DECEMBER
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Resiliency Coordination Forum

All of these forums will be held at the South Florida Water Management District's Headquarters Complex at 3301 Gun Club Road, West Palm Beach, FL 33406.

Resiliency Coordination Forum

The Resiliency Coordination Forum is a fact-finding forum to promote regional collaboration between the South Florida Water Management District and local, state, federal and tribal partners on water management initiatives related to resiliency, and engage partners on assessing the impacts of changing climate conditions and water management.

Invited Partners

- Resiliency Leads from 16 Counties and Local Governments
- Local Mitigation Strategy (LMS) Workgroups from 16 Counties
- 298 Districts
- Planning Councils
- Tribes
- State Agencies
- Federal Agencies

2025 Meeting Dates

- Resiliency Plan Workshops
- Wednesday, May 28
- Wednesday, September 3
- Wednesday, December 3

Visit [SFWMD.gov/Resiliency](https://www.sfwmd.gov/Resiliency) for more information.



Resiliency Coordination Forum

2025 Sea Level Rise and Flood Resiliency Plan Update Workshops:

- Workshop #1 – Lower East Coast – February 21, 2025
- Workshop #2 – Upper East Coast – February 25, 2025
- Workshop #3 – Southwest Coast – February 27, 2025
- Workshop #4 – Kissimmee River Basin – March 7, 2025

Upcoming Quarterly Meetings:

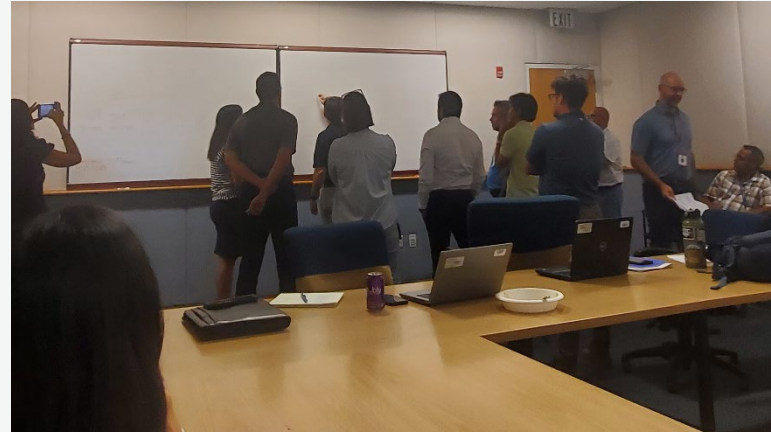
- Wednesday, May 28, 2025: **Wet Season / Resiliency Plan**
- Wednesday, September 3, 2025
- Wednesday, December 3, 2025



Resiliency Projects Implementation in Progress



Site Visit with Miami-Dade County at S-29 Spillway



In-House Design Discussion



Geotechnical Investigation at S-27 Spillway



Geotechnical Investigation at S-29 Spillway



Site Visit at Pickwick Lake, North Miami Beach



Site Reconnaissance Survey at
W.H. Turner School NBS Site

Keeping the Water and Improving the Flow



Golden Era of Everglades Restoration



EAA Reservoir Project



C-44 Reservoir and STA – Protecting St. Lucie Estuary



- 3,400-acre Reservoir
- 6,290-acre Stormwater Treatment Area (STA)
- Captures and Treats C-44 Basin Runoff

Storage Progress Continues West of Lake Okeechobee



Restoring Fresh Water Flow to Biscayne Bay

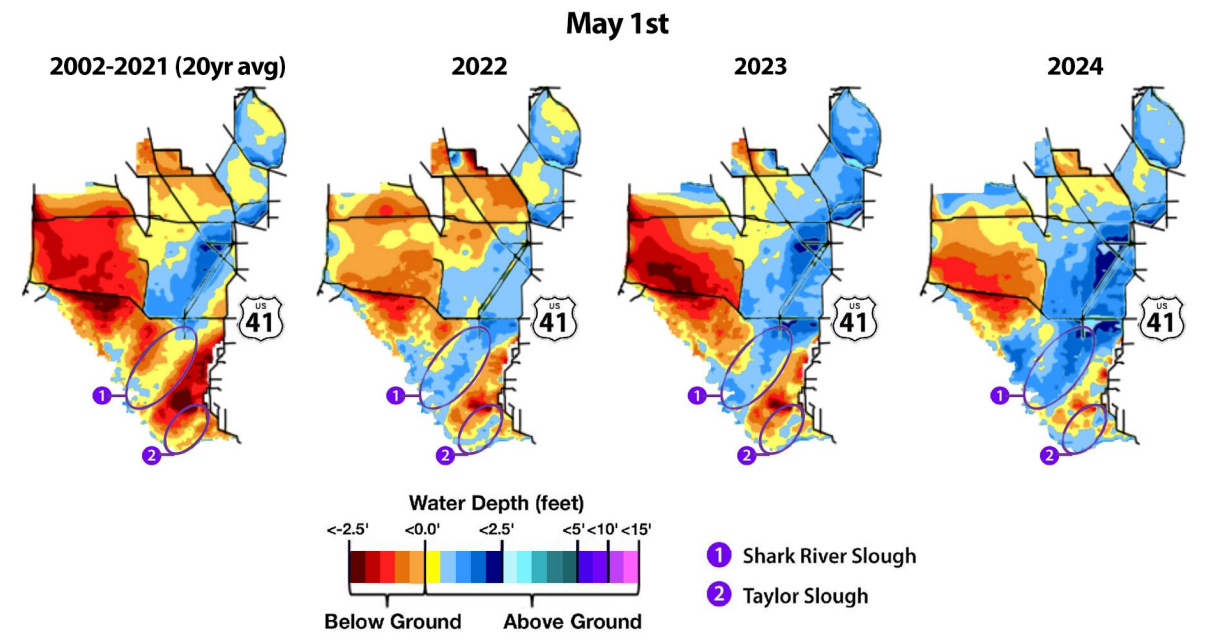


BBCW Cutler Flow Way



S-701

Restoration is Working – Record Hydration in the Everglades

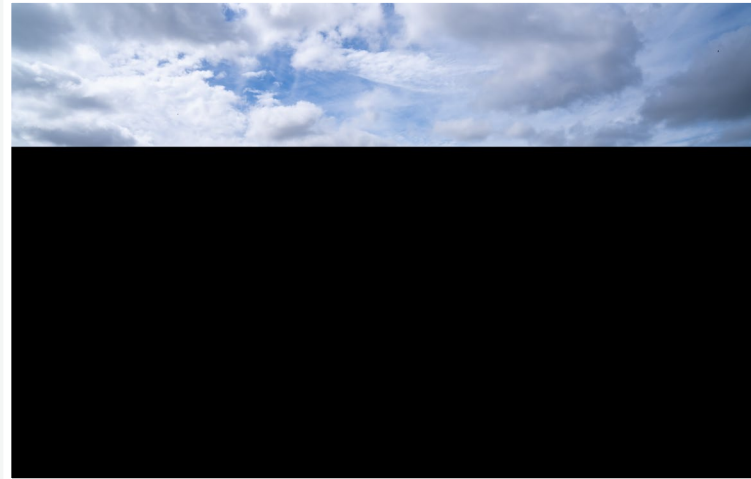


Shark River Slough and Taylor Slough demonstrate that restoration projects and operations work well together to nourish the Everglades and send water south to support the health of Florida Bay.

This Is Going To Be A Big Year



CEPP New Water Seepage Wall
Ribbon Cutting



EAA A2 STA Ribbon Cutting



(C-43) Pump Station Ribbon Cutting



C-44 Reservoir and STA Ribbon Cutting

- Fiscal Year 2024-2025 Tentative Budget = \$1.63 Billion
- **East + West Reservoirs Completed**
- **All IRL Reservoirs under Construction**
- **Clean Water** Entering the Everglades + New 6,000-acre STA
- **Northern + Southern Storage Underway**
- **Tamiami Trail Raised and Ready**
- Restored **Picayune Strand**
- Completed **Biscayne Bay Coastal Wetlands**

Questions?

