

PALM BEACH COUNTY WRTF/ BROWARD COUNTY WAB JOINT MEETING:

COMPREHENSIVE CENTRAL AND SOUTHERN FLORIDA STUDY – MULTIPURPOSE STUDY FOR BUILDING RESILIENCY

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U.S. ARMY



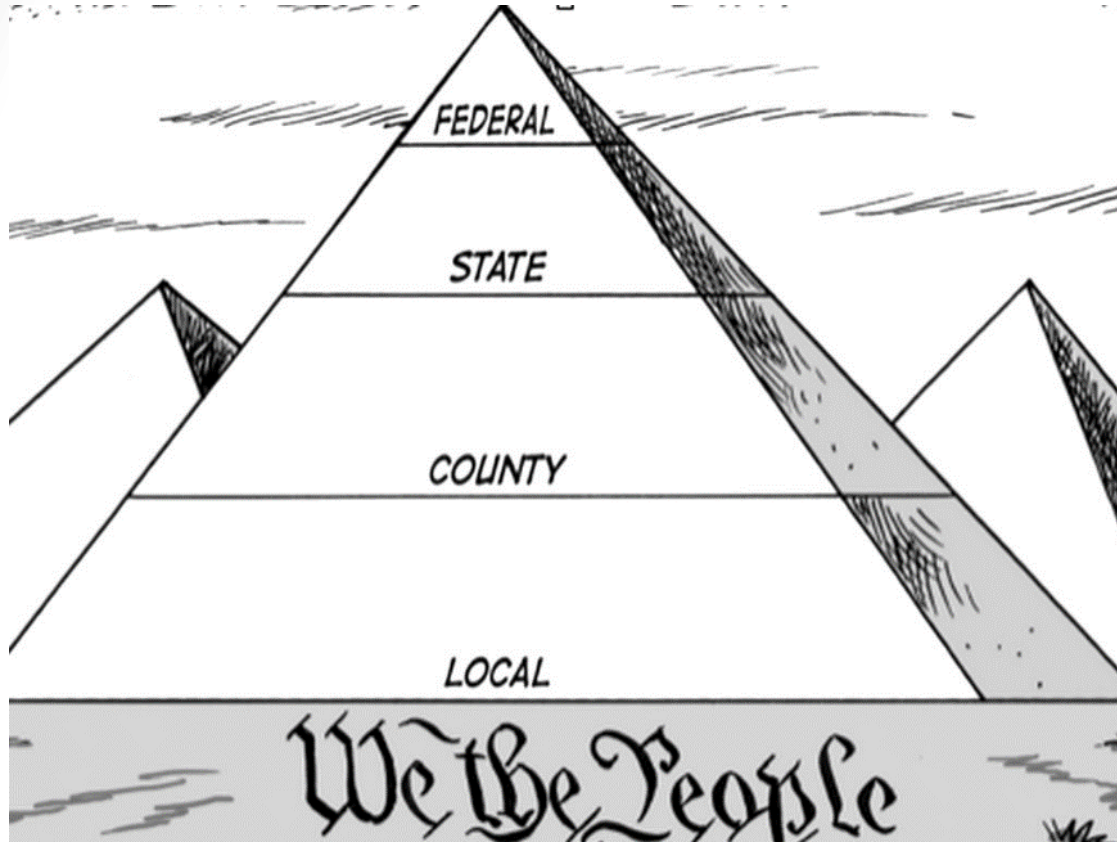
US Army Corps
of Engineers





BUILDING COMMUNITY RESILIENCE

A COMPREHENSIVE AND COLLABORATIVE APPROACH

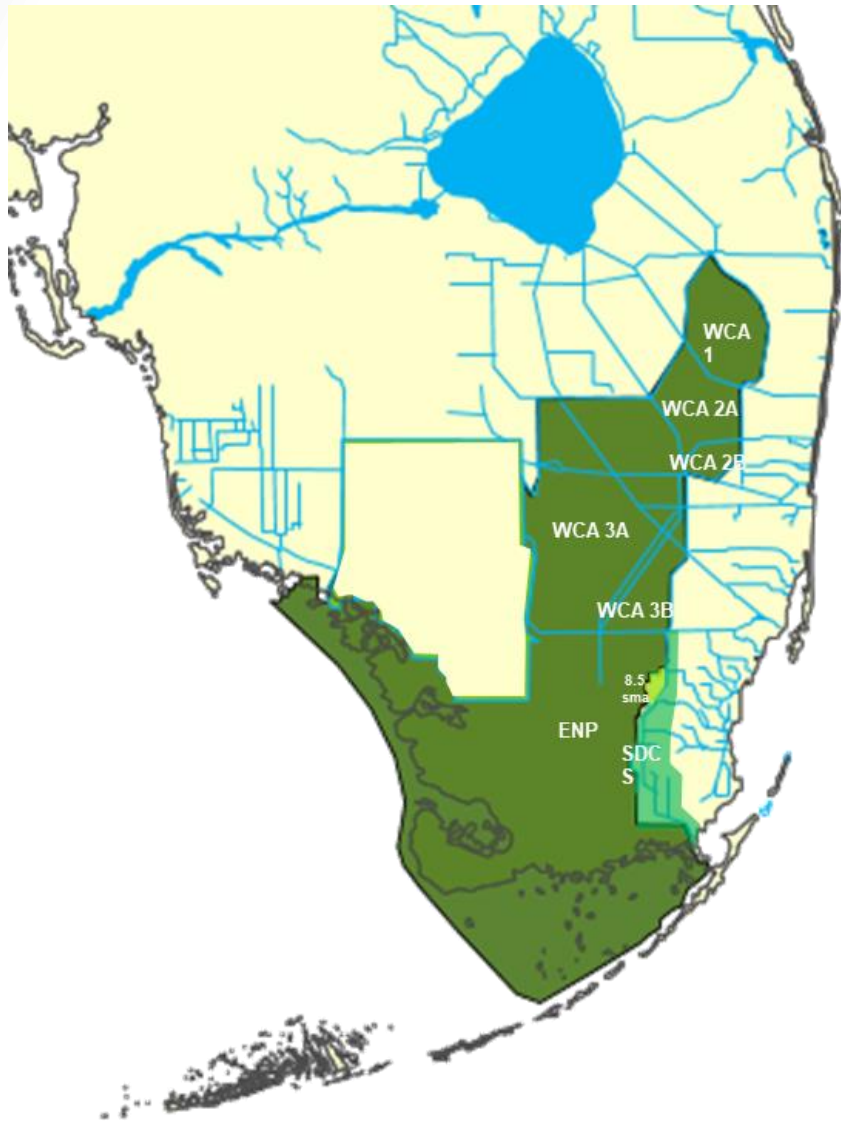


Water Resource infrastructure is the connector



CENTRAL & SOUTHERN FLORIDA (C&SF) PROJECT

THE BACKBONE OF THE WATER RESOURCE SYSTEM



- Congressionally authorized by the Flood Control Acts of 1948 and 1954
- Large multi-purpose water resources project
- System includes canals, levees/berms, pump stations and water control structures

Balance multiple congressionally-authorized project purposes:

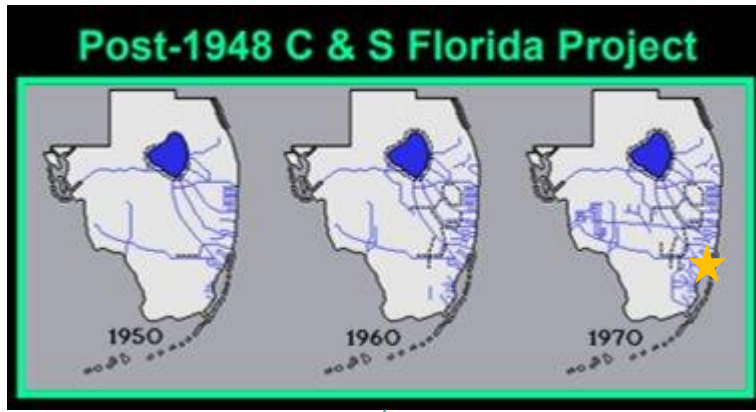
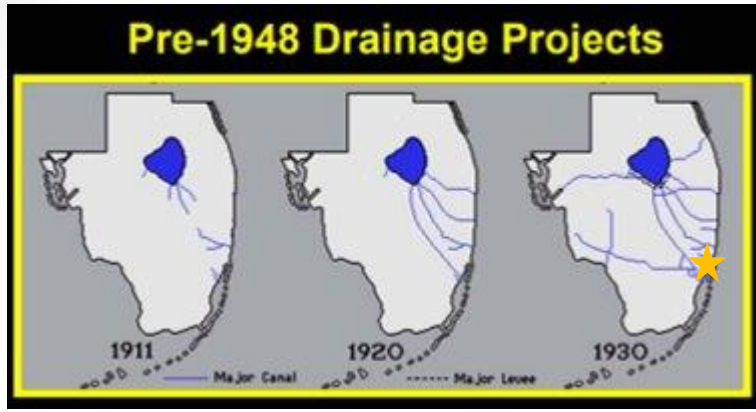
- Flood control
- Navigation
- Water supply
- Enhancement of fish and wildlife
- Recreation



CENTRAL & SOUTHERN FLORIDA (C&SF) PROJECT



CHANGED CONDITIONS



Downtown Miami



USACE RESILIENCY THROUGH PROJECT INTEGRATION

Coordinating Multiple Lines of Defense



Comprehensive Everglades Restoration Plan (CERP)

Back Bay CSRM Studies

CS&F (216) Flood Resiliency Study (FRM)

Beach CSRM Reauthorizations

Port/Harbor Navigation Studies



PARKS & CONSERVATION LANDS



AGRICULTURE



WESTERN & SOUTHERN SUBURBS



SLOUGHS



THE RIDGE



MAINLAND BAYFRONT



ISLAND BAYFRONT



ISLAND OCEANFRONT



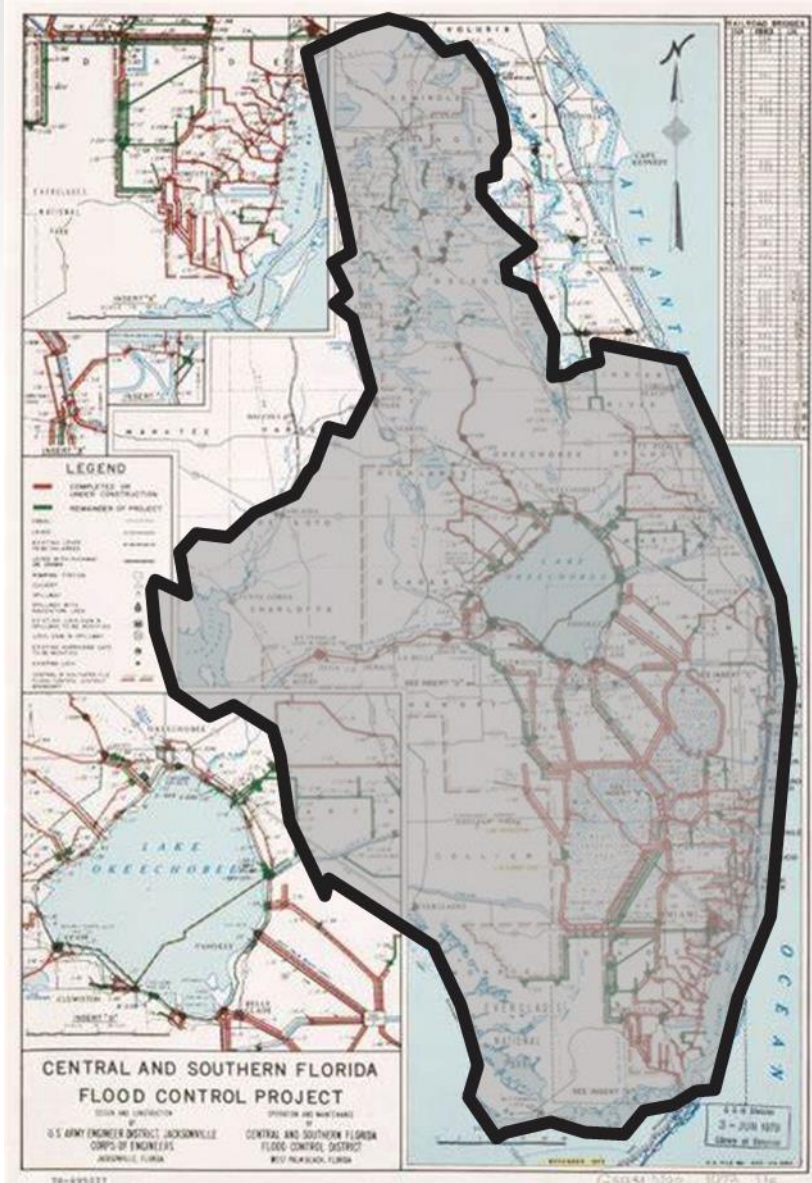
WATER





COMPREHENSIVE CENTRAL AND SOUTHERN FLORIDA STUDY

Overview



Authority –

- Division H Section 8214 of the National Defense Authorization Act for Fiscal Year 2023.

Scope –

- Feasibility study for **resiliency** and **comprehensive improvements** or modifications to existing water resources development projects in the central and southern Florida area
- Purposes of flood risk management, water supply, ecosystem restoration (including preventing saltwater intrusion), recreation, and related purposes.



- Recommend cost-effective structural and nonstructural projects for implementation that provide a **systemwide approach** to solutions

Key themes –

- Increase system-wide community resiliency
- Strategic long-term planning through collaboration with Federal, state, and local entities
- Focus on comprehensive benefits
- Address effects from compound flooding, climate variability, and land use changes
- Incorporate natural and nature-based features to enhance benefits



COMPREHENSIVE CENTRAL AND SOUTHERN FLORIDA STUDY



Overview

What is different about the "Comp Study"?

- The way we look at flood risk – compound flooding and comprehensive solutions

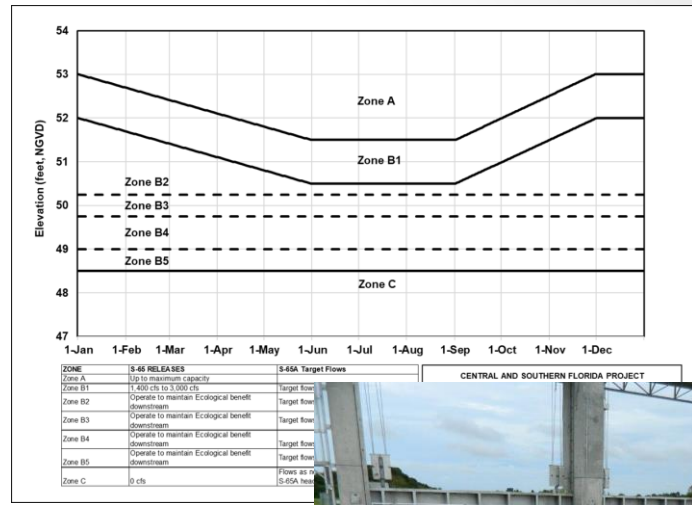


together

- Comprehensive AUTHORITY allows planning for multipurpose projects



- Infrastructure and operations planning together to optimize solutions





C&SF FLOOD RESILIENCY (SECTION 216) STUDY



Overview

Scope –

- Address C&SF system resiliency in the high risk areas in Lower East Coast focused on most immediate needs at coastal structures

Current Efforts –

- PDT meeting scheduled 7-8 March 2024 to review draft evaluation metrics;
- SFWMD/SAJ Team completed FWOP H&H modeling; PDT workshop held 12 April 2024 to present overview of available data
- SAJ/SFWMD teams working on evaluation of FWOP data
 - SAJ Economics team is producing FDA model data to support NED evaluation
 - SFWMD contractor (HDR) producing GIS based evaluation to support RED, EQ, and OSE account evaluations

Upcoming Efforts –

- Evaluation discussions with PDT July 2024
- Location Prioritization discussions August 2024



Sponsor and USACE Business Line –

- South Florida Water Management District
- Flood Risk Management (FRM) business line

Website:

www.saj.usace.army.mil/CSFFRS



G-54 Structure (Sewell Lock) and flooding in Ft Lauderdale 2020.



C&SF C-7 canal Miami



AREAS DOWNSTREAM OF COASTAL STRUCTURES



C&SF Flood Resiliency Study –

- Solutions for flood risk management may include opportunities for adding control structures closer to the coast
- Mitigation for impacts of increased releases

Comprehensive Central and Southern Florida Study –

- Evaluation of compound flooding impacts and development of solutions
- Opportunities for integration with existing coastal storm risk management authorities to develop solutions
- Integration with state and local projects to address needs

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