CENTRAL AND SOUTH FLORIDA SYSTEM, FLOOD RISK MANAGEMENT STUDY, AND RESILIENCY NEEDS

Joint Palm Beach County Water Resources Task Force and Broward County Water Advisory Board Workshop

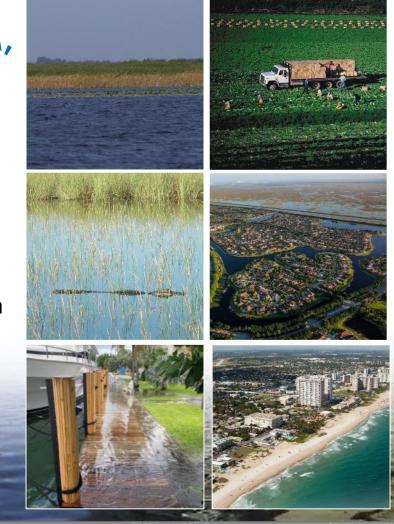
On Behalf of Colonel Drew Kelly, Presented by:

Eva B. Vélez, P.E., Strategic Program Manager, Ecosystems Branch and Jason Engle, P.E., Chief, Water Resources Engineering Branch U.S. Army Corps of Engineers, Jacksonville District

2 June 2021







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BUILDING COMMUNITY RESILIENCE A COMPREHENSIVE AND COLLABORATIVE APPROACH



SHARED RESPONSIBILITY

An Effective Resilience-focused Strategy Requires a Coordinated and Integrated Approach Across All Levels of the Public and Private Sectors

- The problems related to climate change are uncertain, broad, and complex
- It is essential to survey and assess relationships among all public and private sector deliverables and capabilities – at local, regional, state and federal levels – to determine the most appropriate and effective packaging of programs, projects, and services to accomplish resilience and sustainability objectives





BUILDING COMMUNITY RESILIENCE A COMPREHENSIVE AND COLLABORATIVE APPROACH



HOW DOES IT ALL FIT TOGETHER?

Collaboration is key to identify and assess impacts, connections, dependencies, relationships, causes, economies of scale, etc. – that are needed to more fully and adaptively plan, implement, integrate, and operate programs and projects for more resilient and sustainable communities in the long term, and in the face of climate change.



The C&SF System is the connector





UNDERSTANDING THE C&SF SYSTEM IS THE KEY

- When you look at this image, what you see depends on your perspective
- Operations of the C&SF are the basis of adaptation – form the context for all other actions



BUILDING COMMUNITY RESILIENCE HOW DOES IT ALL COME TOGETHER?



The conditions and operations of the C&SF system, the benefits of CERP, and climate change science will form the context of the C&SF Flood Risk Management Infrastructure Resiliency Study

WATERSHED-BASED

- Water Management and Operations of the Central and South Florida (C&SF) Project
- Comprehensive Everglades Restoration Plan (CERP)
- C&SF Flood Risk Management (FRM) Infrastructure Resiliency Study (Focused and Comprehensive Studies)

COASTAL

- Navigation Projects
- Coastal Storm Risk Management (Beach and Backbay)
- Regional Sediment Management
- South Atlantic Coastal Study and the Southeast Florida Focus Area



CENTRAL & SOUTHERN FLORIDA (C&SF) PROJECT



- WCA WCA 2 OM VOLUMES BY REGION WCA 2 WCA 3A WCA 3 ENP NOT TO SCALE
- The System Operating Manual (SOM) for the C&SF consists of 7 volumes
- Organized according to geographical regions
- Provide a system-wide framework for the operation of components of the C&SF Project and CERP projects
- Ensure that projects function in a coordinated, systematic way
- SOM updates are underway in conjunction with CERP implementation (on Integrated Delivery Schedule)
- America's Everglades serve as a natural and nature-based feature that protect the C&SF system which in turn provides flood protection and water supply to millions of Floridians



BUILDING COMMUNITY RESILIENCE MEASURES IN ACTION

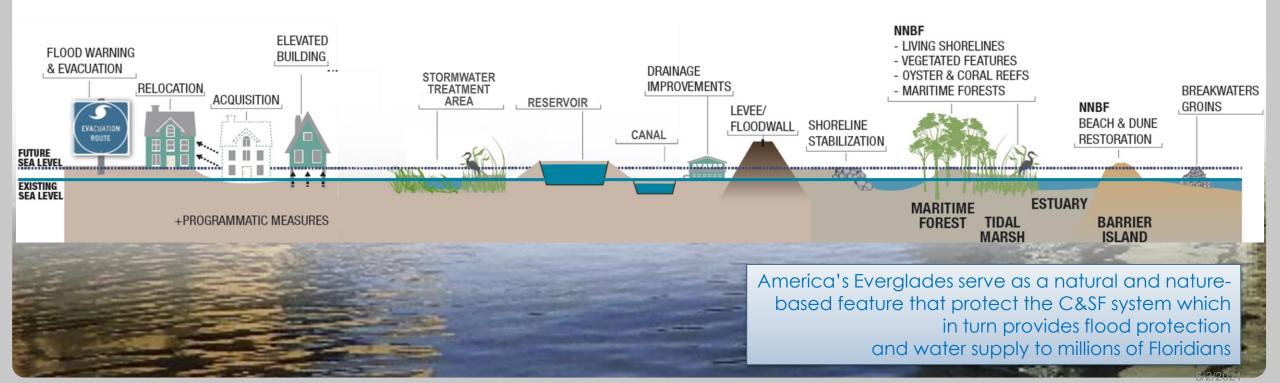


□ NATURAL □ STRUCTURAL □ NATURE-BASED □ NON-STRUCTURAL

CLIMATE CHANGE ADAPTATION OPPORTUNITIES

Each mission area contributes a collection of measures to combine into projects to help

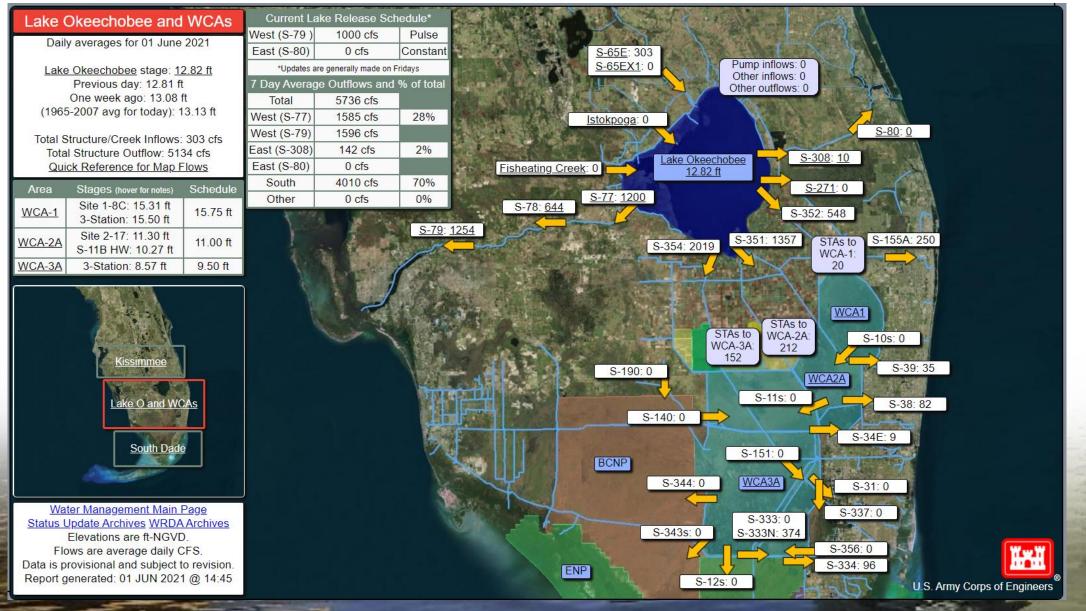
adapt to climate change and render a community more resilient





C&SF OPERATIONS/CURRRENT CONDITIONS

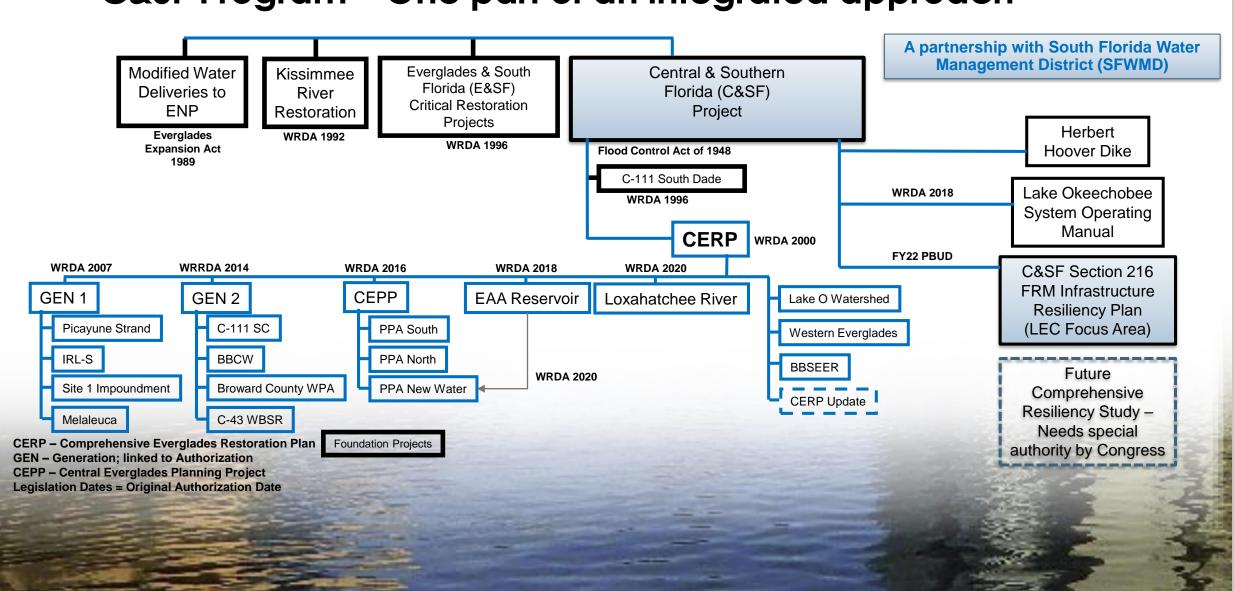




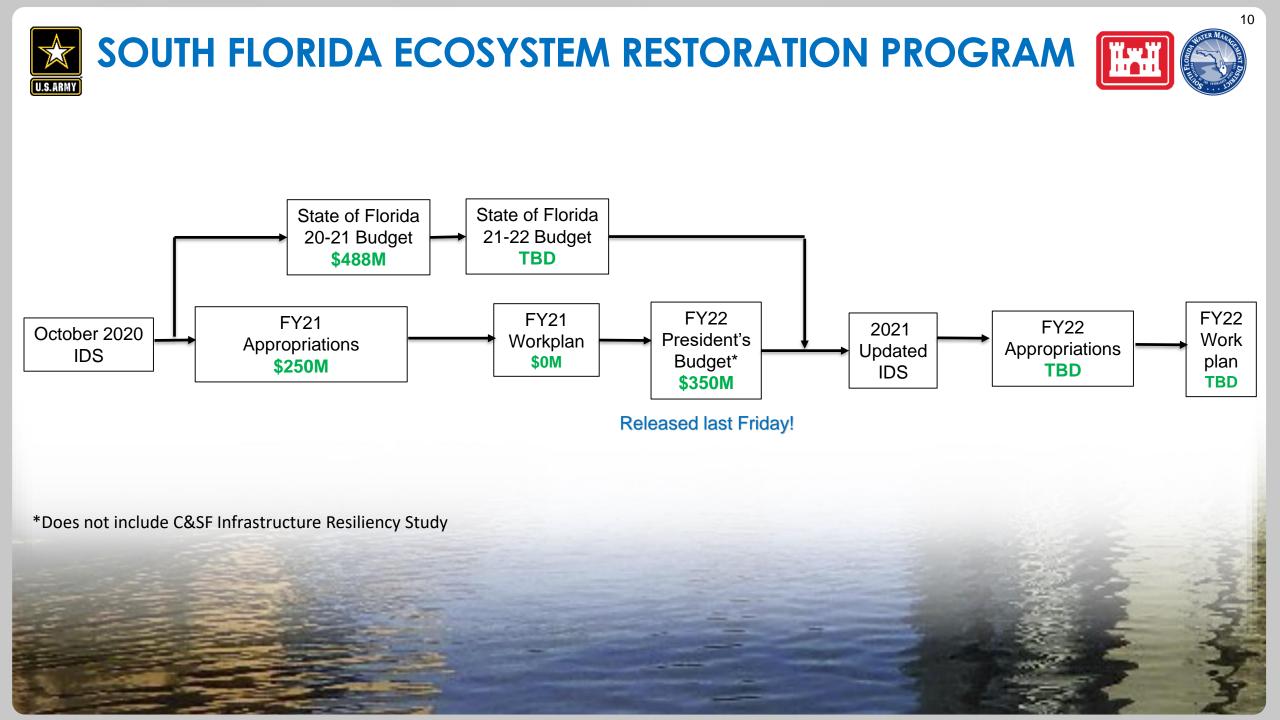


BUILDING COMMUNITY RESILIENCE C&SF Program – One part of an integrated approach





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SECTION 216 C&SF FLOOD RISK MANAGEMENT (FRM) INFRASTRUCTURE RESILIENCY STUDY



- Section 216 C&SF FRM Infrastructure Resiliency Study
 - South Florida Water Management District will be the Non-Federal Sponsor
 - The study will focus on the project features which can <u>reduce the most immediate risk to changing</u> <u>conditions</u>, and the resilience aspects of such infrastructure in terms of flood vulnerabilities resulting from climate change, sea level rise, and population growth
 - Status Update
 - ► New Start in FY22 PBUD (\$500k Fed) Investigations, Flood Risk Management (FRM) Business Line
 - ► FY22 Appropriations Bill by U.S. Congress next step
 - ► Target Execution of new Feasibility Cost Sharing Agreement in June 2022
- Additional Comprehensive Plan is needed
 - Overall C&SF System
 - Development of hydrologic/rainfall climate change scenarios for Florida
 - Separate study authority is needed from Congress





THANK YOU

