CENTRAL AND SOUTHERN FLORIDA (C&SF) FLOOD CONTROL DISTRICT BOUNDARY

CANAVERAL HARBOR
BREVARD
ST. PETERSBURG HARBOR
TAMPA HARBOR
PINELLAS
PORT MANATEE
MANATEE
UPPER ST. JOHNS RIVER BASIN PROJECT
SJRWMD
SFWMD
Atlantic Ocean
FT. PIERCE HARBOR
FT. PIERCE
ST. LUCIE
SARASOTA
CHARLOTTE COUNTY
LAKE OKEECHOBEE
ST. LUCIE RIVER
JUPITER/CARLIN
PALM BEACH HARBOR
MIDTOWN
GASPARILLA ISLAND
Gulf of Mexico
CALOOSAHATCHEE RIVER
LOSOM
EVERGLADES AGRICULTURAL AREA
BOYNTON BEACH
OCEAN RIDGE
DELRAY BEACH
NORTH BOCA
BOCA RATON
CAPTIVA ISLAND
SWFCWP
WERP
WCA 1
WCA 2
WCA 3A
WCA 3B
C&SF FLOOD RESILIENCY SEC 203 STUDY
BROWARD COUNTY II
PORT EVERGLADES
BROWARD COUNTY III
COLLIER COUNTY
MIAMI-DADE BACK BAY CSRM STUDY
HAULOVER BEACH PARK
BAL HARBOUR
SURFSIDE
MIAMI BEACH
C&SF FLOOD RESILIENCY SEC 216 STUDY
MIAMI HARBOR
KEY BISCAYNE
EVERGLADES NATIONAL PARK
BBSEER
BISCAYNE BAY AND BISCAYNE NATIONAL PARK
FLORIDA BAY
FLORIDA KEY, MONROE COUNTY
KEY WEST

8 5 19 11 18 6 7 14 2 1 17 9 20 15 21 3 13 4 12 10 16

COLLABORATION
PROJECTS AND STUDIES
MONITORING DATA MODELING ANALYSES OPERATIONS
INFORMATION SHARING
PROJECTS AND STUDIES

**IMPORTANT NOTE ABOUT THIS PRODUCT:**

THE PRODUCT DOES IS NOT INCLUSIVE OF ALL ONGOING PROJECTS AND STUDIES (DOES NOT ILLUSTRATE LOCATIONS OF SMALL AUTHORITY PROJECTS AND STUDIES, SHALLOW DRAFT HARBORS, OR IWW.

NOT TO SCALE

## I

## SOUTH FLORIDA ECOSYSTEM RESTORATION (SFER) PROJECTS, STUDIES, AND REGULATION SCHEDULES

### # NON-CERP (CURRENT)

1) Seminole Big Cypress
2) West Palm Beach Canal Stormwater Treatment Areas (STAs)
3) Modified Water Deliveries (MWD) to Everglades National Park (ENP)
4) C-111 South Dade
5) Kissimmee River Restoration (KRR)
6) Herbert Hoover Dike (HHD)
7) Lake Okeechobee System Operating Manual (LOSOM)
8) Shingle Creek & Kissimmee River Study

### # CERP (CURRENT)

9) Site 1 Impoundment
10) Picayune Strand Restoration Project (PSRP)
11) Indian River Lagoon – South (IRL-S) C-44 Reservoir and STA
12) C-111 Spreader Canal Western Project
13) Biscayne Bay Coastal Wetlands (BBCW) – Phase 1
14) Caloosahatchee River C-43 Reservoir
15) Broward County Water Preserve Areas (BCWPA)
16) Melaleuca Eradication (system-wide)
17) Central Everglades Planning Project (CEPP)
18) Loxahatchee River Watershed Restoration Project (LOWRP)
19) Lake Okeechobee Watershed Restoration Project (LOWRP)
20) Western Everglades Restoration Project (WERP)
21) Southern Everglades Restoration

### LARGE STUDY OUTLINES (CURRENT AND FUTURE)

WESTERN EVERGLADES RESTORATION PROJECT (WERP)

LAKE OKEECHOBEE WATERSHED RESTORATION PROJECT (LOWRP)

BISCAYNE BAY AND SOUTHEASTERN EVERGLADES RESTORATION (BBSEER)

SOUTHWEST FLORIDA COMPREHENSIVE WATERSHED STUDY (SWFCWP)

Does not authorize USACE action but includes recommendations for site-specific studies that can be implemented by others, as well as those that USACE may be uniquely suited to implement.

C&SF FLOOD RESILIENCY STUDIES

Studies purpose is to enhance existing C&SF coastal water control system functionality and capacity to improve flood risk management and resiliency which has been degraded by inland inundation and changed conditions within southern Palm Beach, Broward and Miami Dade Counties.

FUTURE COMPREHENSIVE C&SF STUDY

C&SF boundary within SFWMD and SJRWMD is the preliminary study area.

Study purpose is to evaluate current water resource system needs in light of climate change, population growth and land use changes to recommend comprehensive solutions to increase long-term community resiliency.

Primary focus includes flood risk management, drainage and water control, prevention of saltwater intrusion, water supply, groundwater recharge, preservation of fish and wildlife, preservation of Everglades National Park, navigation, and recreation.

FUTURE SOUTHERN EVERGLADES STUDY

Preliminary study area based on current IDS components includes areas in and adjacent to northern WCA-3A and parts of WCA-3B.

## II

## COASTAL NAVIGATION PROJECTSAND STUDIES IN CENTRAL AND SOUTH FLORIDA

Authorized CSRM* Projects

New CSRM* Studies (+ Back Bay)

Authorized Navigation Projects (DEEP DRAFT)

* CSRM: Coastal Storm Risk Management

## COMMUNITY RESILIENCE AND INTEGRATION

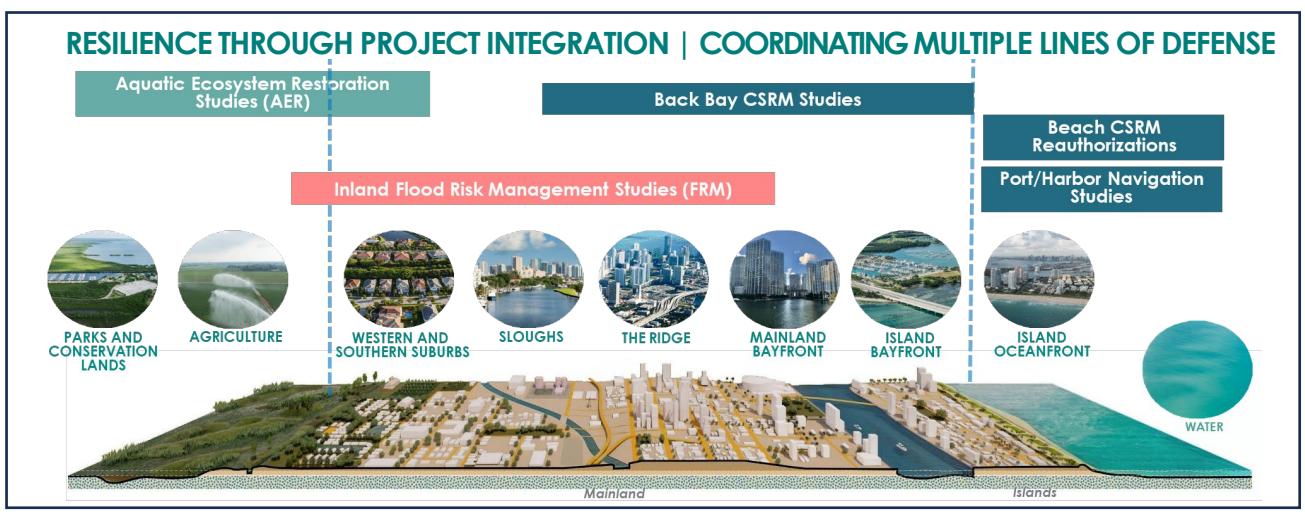
In this context, the term "community" includes both the human and natural environments.

A resilient community can recover faster after natural events such as storm-induced flooding, as well as manmade events – by acting in advance to identify and reduce vulnerabilities. These communities can also better resist the potential effects of sea level rise, climate variability, and other potential threats. Seeking opportunities through integration of actions at all levels of the public and private sectors can increase both resilience and overall efficiencies in fostering stronger communities.

### FLOOD RESILIENCY AND THE U.S. ARMY CORPS OF ENGINEERS

Given the nature of the U.S. Army Corps of Engineers (USACE) mission as a water-resources engineering organization, we are uniquely suited to address resiliency across all our business lines. The graphic to the right illustrates how projects and studies can be integrated across programs to increase resiliency and sustainability. Tools of integration, such as Regional Sediment Management (RSM), can help find opportunities to address water resources problems and flooding more efficiently and effectively.

Source of Base Graphic: Miami-Dade County




# PROJECT/STUDY INTEGRATION AND RESILIENCE

LAKE OKEECHOBEE
1
2
PALM BEACH COUNTY
3
4
JUPITER/CARLIN
WEST PALM BEACH
PALM BEACH HARBOR
MIDTOWN
BOYNTON BEACH
OCEAN RIDGE
DELRAY BEACH
NORTH BOCA
BOCA RATON
HENDRY COUNTY
5
EAA
WCA 1
15
6
PALM BEACH COUNTY
BROWARD COUNTY
7
C&SF FLOOD RESILIENCY (SEC 203) STUDY
WCA 2
BROWARD COUNTY II
FT. LAUDERDALE
PORT EVERGLADES
WCA 3A
8
BROWARD COUNTY III
9
COLLIER COUNTY
BROWARD COUNTY
MIAMI-DADE COUNTY
MIAMI-DADE BACK BAY CSRM STUDY
SUNNY ISLES
HAULOVER BEACH PARK
BAL HARBOUR
SURFSIDE
MIAMI BEACH
MIAMI
MIAMI HARBOR
16
C&SF FLOOD RESILIENCY (SEC 216) STUDY
WCA 3B
10
11
KEY BISCAYNE CSRM STUDY
Kendall
MONROE COUNTY
MIAMI-DADE COUNTY
EVERGLADES NATIONAL PARK
BBSEER
12
BISCAYNE NATIONAL PARK
13
Homestead AFB
BISCAYNE BAY
Model Lands
FPL
14
Southern Glades
CARD SOUND
MANATEE BAY
Eastern Panhandle
BARNES SOUND
FLORIDA BAY

LEGEND
- STRUCTURES
- CANALS
- FRM/CERP PROJECTS
- CSRM PROJECTS
- NAV PROJECTS

N W E S

NOT TO SCALE

## SOUTH FLORIDA ECOSYSTEM RESTORATION (SFER) AND RESILIENCE PLANNING PROJECTS, OPERATIONAL STUDIES, AND CONSTRUCTION

1) Herbert Hoover Dike Rehabilitation
2) LOSOM
3) Loxahatchee River Watershed Restoration Project
4) IRL-South
5) Central Everglades Planning Project
6) Everglades Agricultural Storage Reservoir
7) Site 1 Impoundment
8) Broward County WPAs
9) C&SF Flood Resiliency (Section 216) Study (FRM)
10) Tamiami Trail Next Steps – Phase 2
11) Biscayne Bay and Southeastern Everglades Ecosystem Restoration (BBSEER)
12) Biscayne Bay Coastal Wetlands (BBCW)
13) S-332 Pump Replacements
14) C-111 Spreader Canal Western Project
15) Melaleuca Eradication
16) Southern Everglades

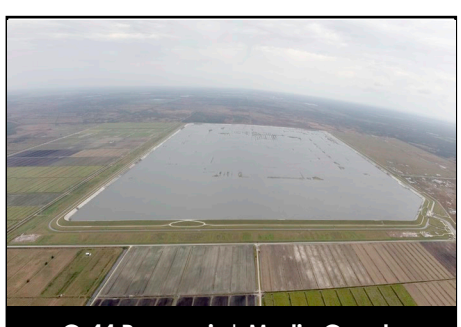
## COASTAL NAVIGATION PROJECTSAND STUDIES IN CENTRAL AND SOUTH FLORIDA

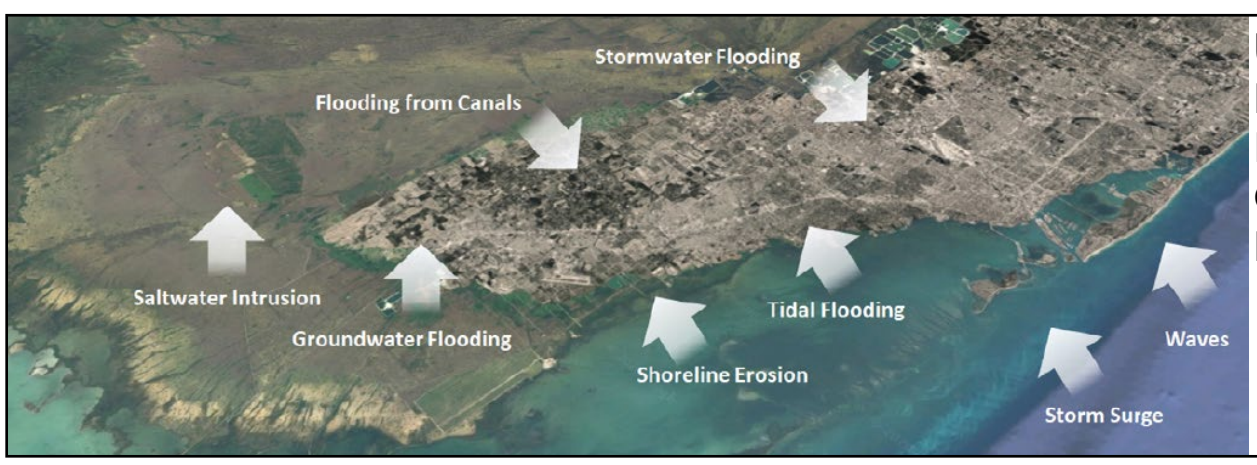
- Coastal Storm Risk Management (CSRM) + Back Bay CSRM
- Authorized Navigation Projects (DEEP DRAFT)


C&SF Water Management | LOSOM Operations


2020 Flooding | Ft. Lauderdale


Port of Miami | Miami-Dade County


C-44 Reservoir | Martin County




## UNDERSTANDING FLOWS AND RELATIONSHIP TO COMPOUND FLOODING RISK

Source: Miami-Dade County Sea Level Rise Strategy (2021)

# FOCUSED AREA MAP | SOUTHEAST FLORIDA PROJECTS