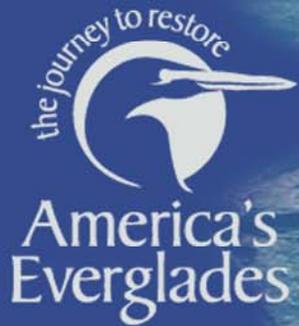
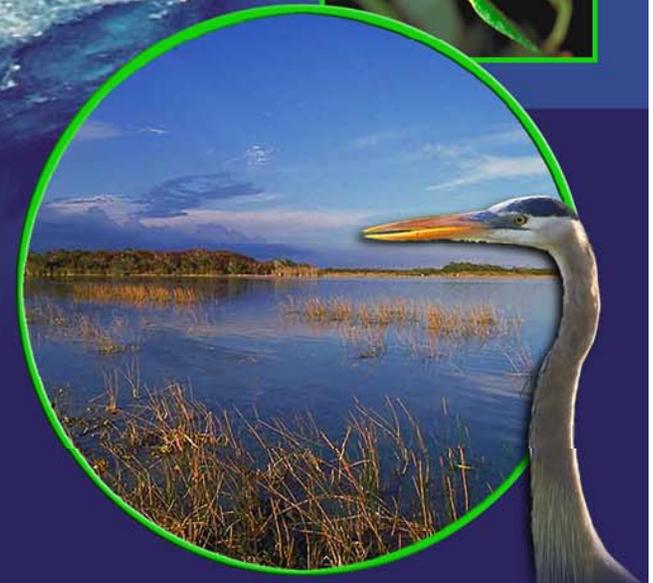


Task Force Update 22 February 2006



the **Restoration** of America's Everglades & the South Florida Ecosystem



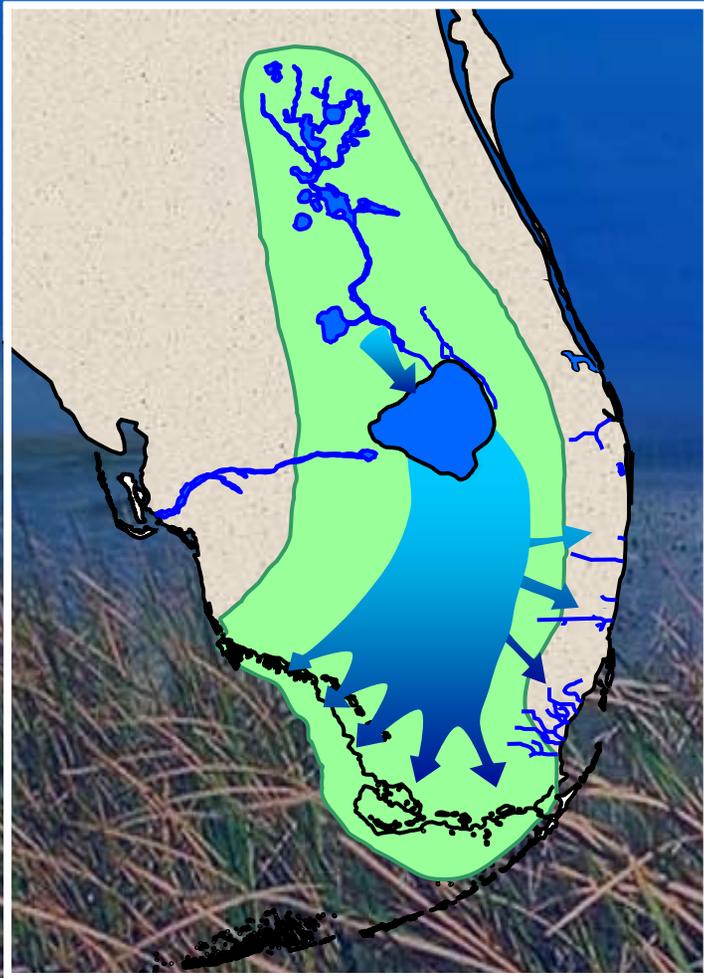
Topics

- **Background**
- **Foundation Project Update**
- **CERP Update**
- **Program Efforts**

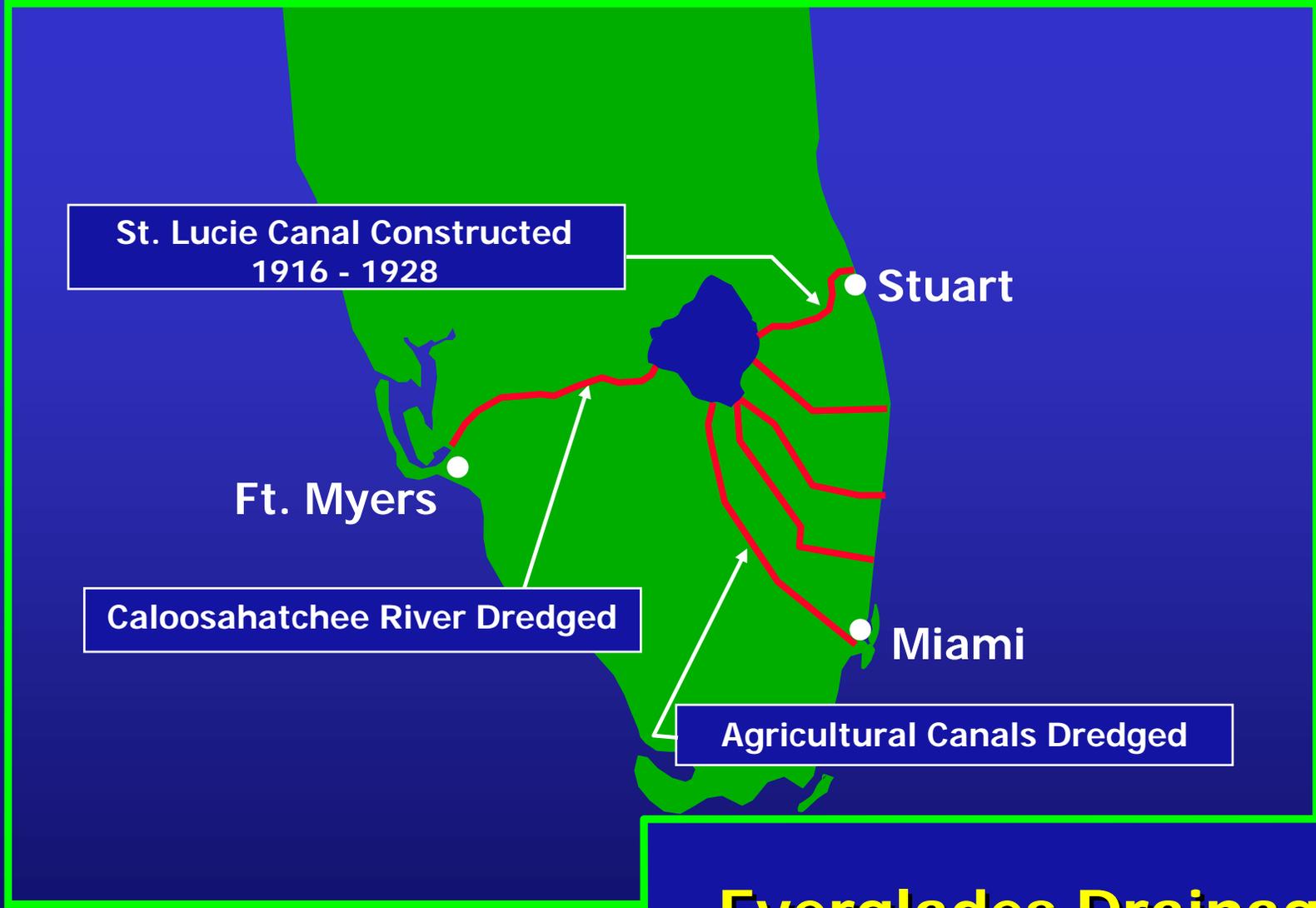


The "Original" Everglades Ecosystem

"River of Grass"



- Water connected the system, from top to bottom
- 9 million acres of wetlands providing a variety of habitat
- Diverse mosaic of landscapes and seascapes



St. Lucie Canal Constructed
1916 - 1928

Stuart

Ft. Myers

Caloosahatchee River Dredged

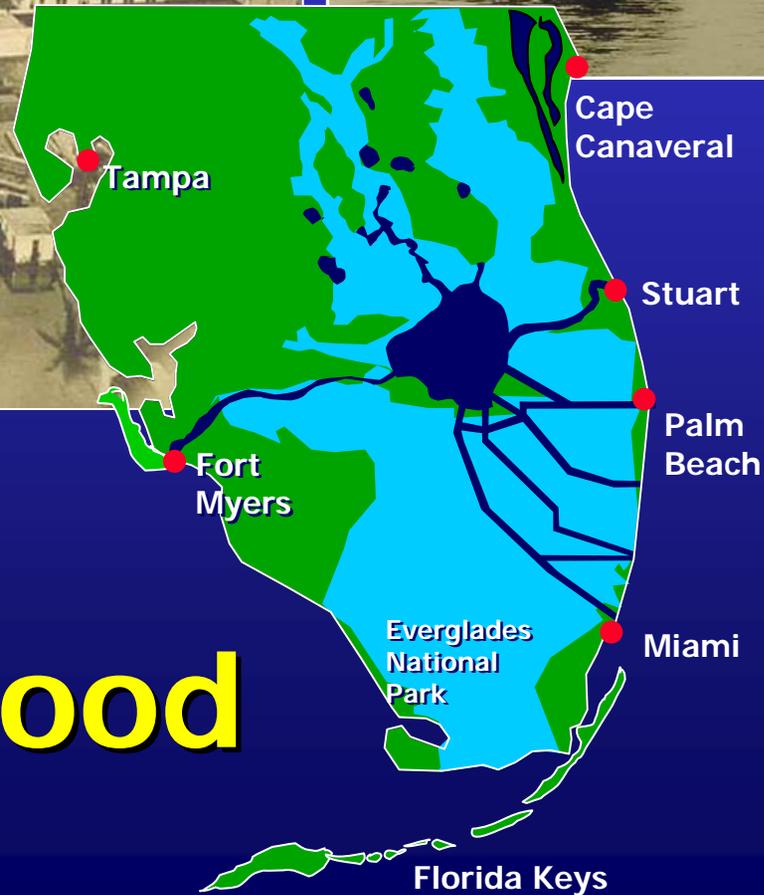
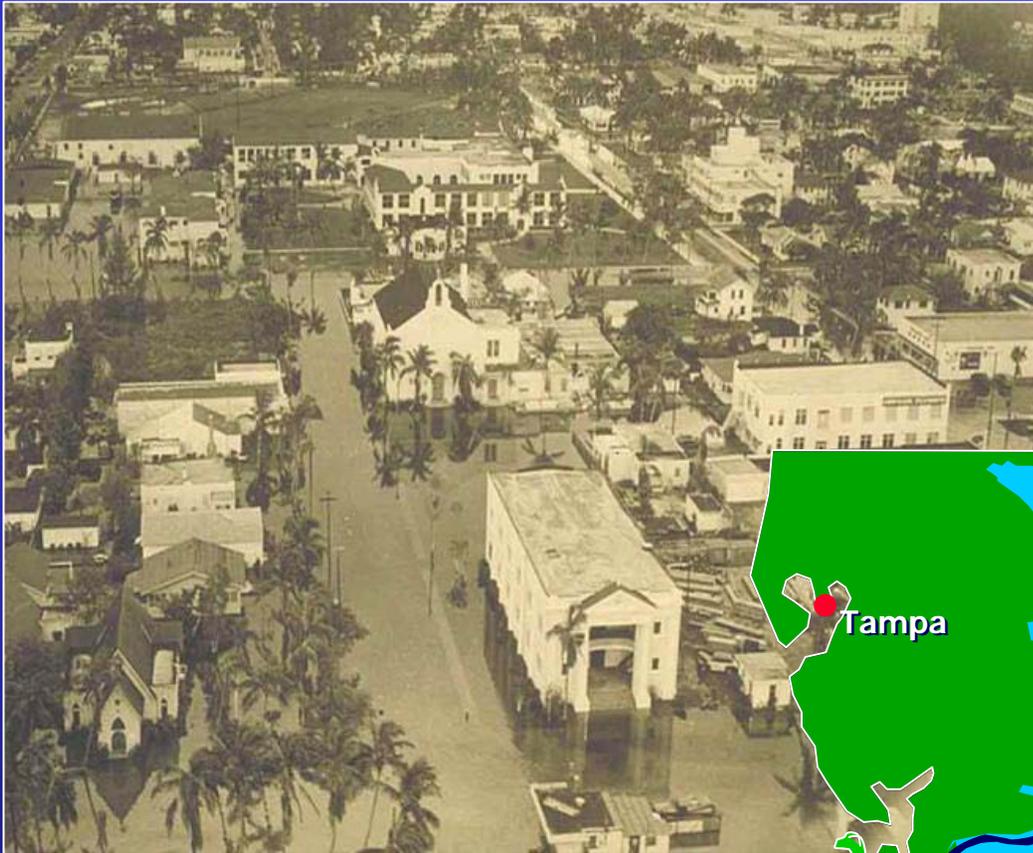
Miami

Agricultural Canals Dredged

**Everglades Drainage
District Works
1905-1928**



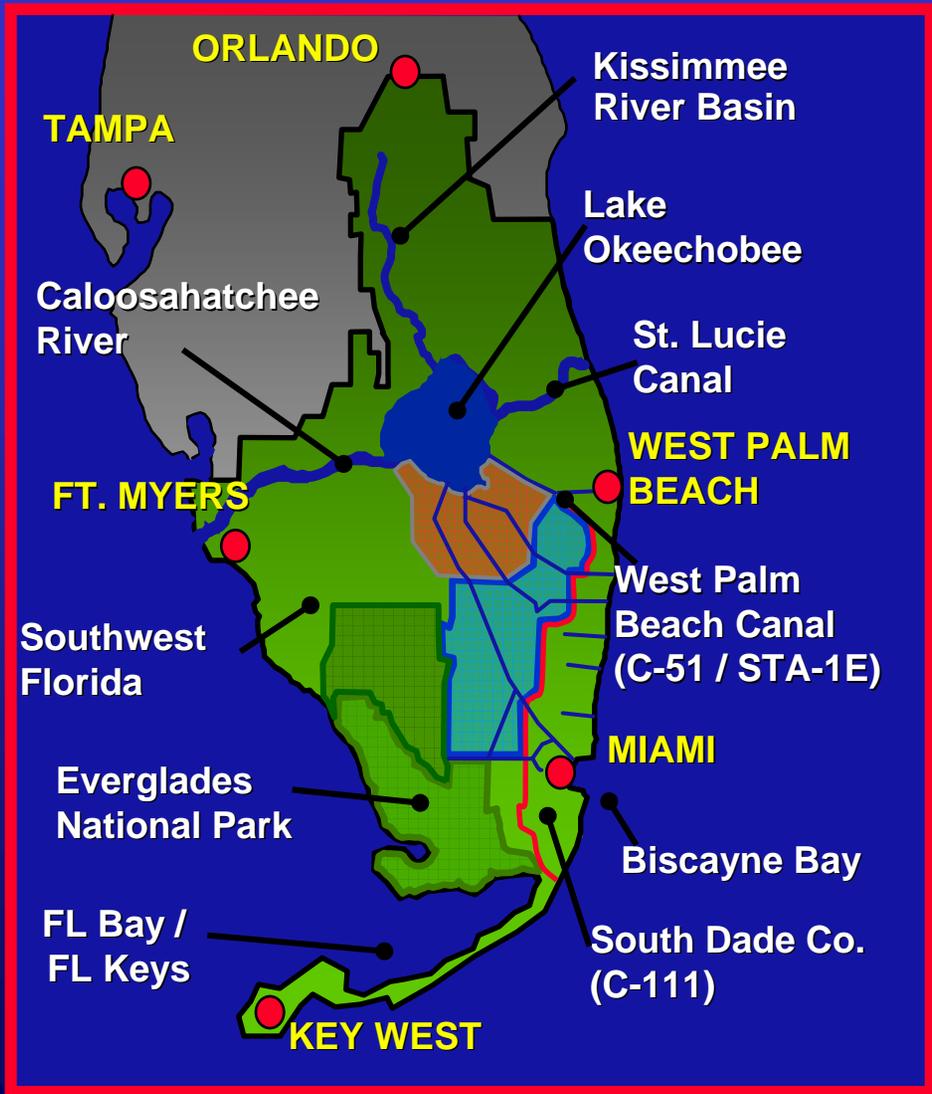
**Hurricanes in 1928
resulted in over
2200 lives lost**



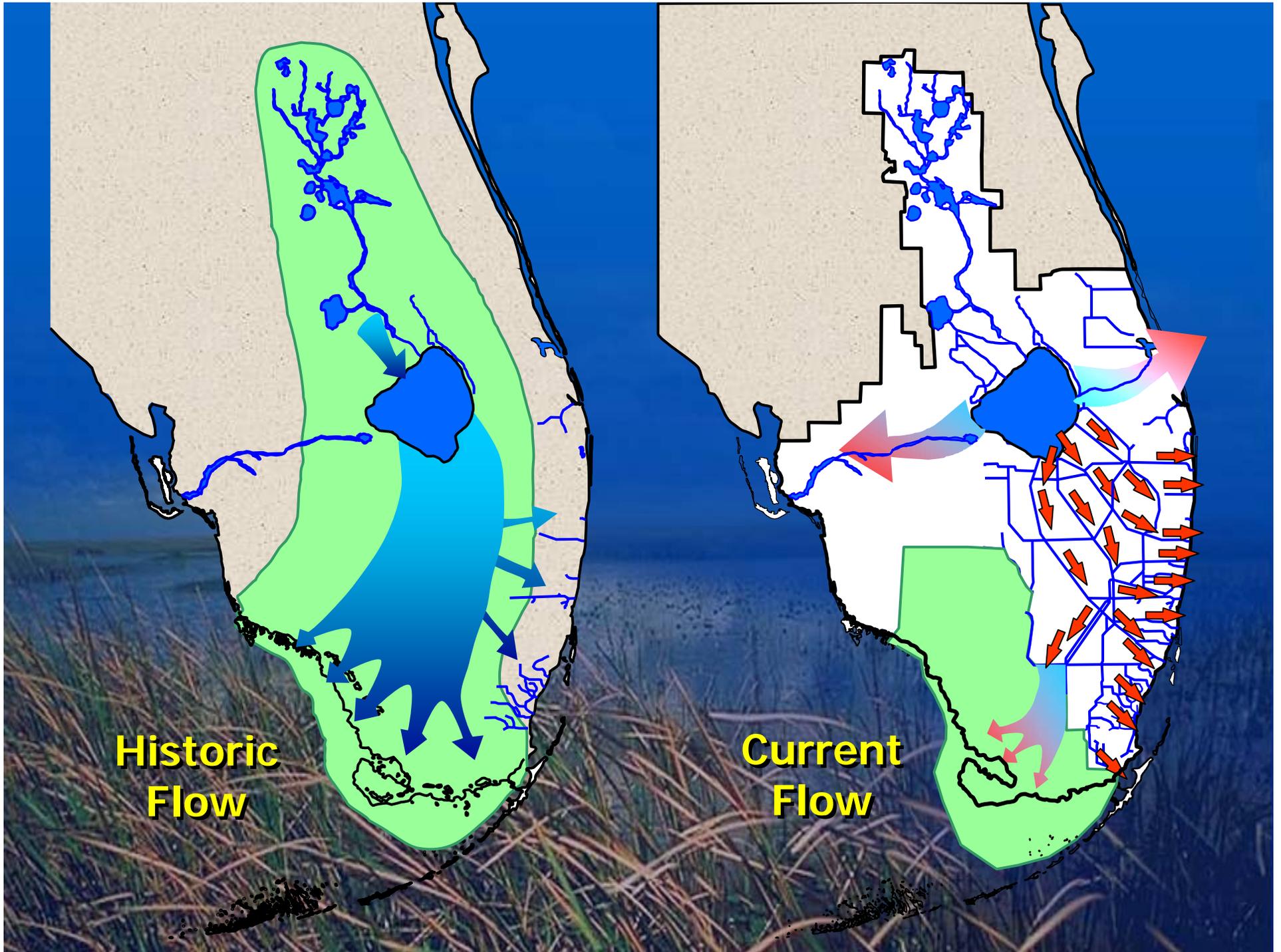
1947 Flood

Areas
Flooded
1947

Central & Southern Florida Project (C&SF)



- **Authorization:** Flood Control Act of 1948 +
- **Purpose:** Flood Control, Water Conservation & Control, Salt Water Intrusion, F&W, Water Supply to ENP, FL Bay/FL Keys, & Environmental Restoration
- **Features:** 46 bridges, 10 locks, 670 miles of canals, 809 miles of levees, 130 control & diversion structures, & 16 pump stations
- **Project Cost:** \$2.9B
- **Cost Share:** Varies
- **Local Sponsor:** Various



**Historic
Flow**

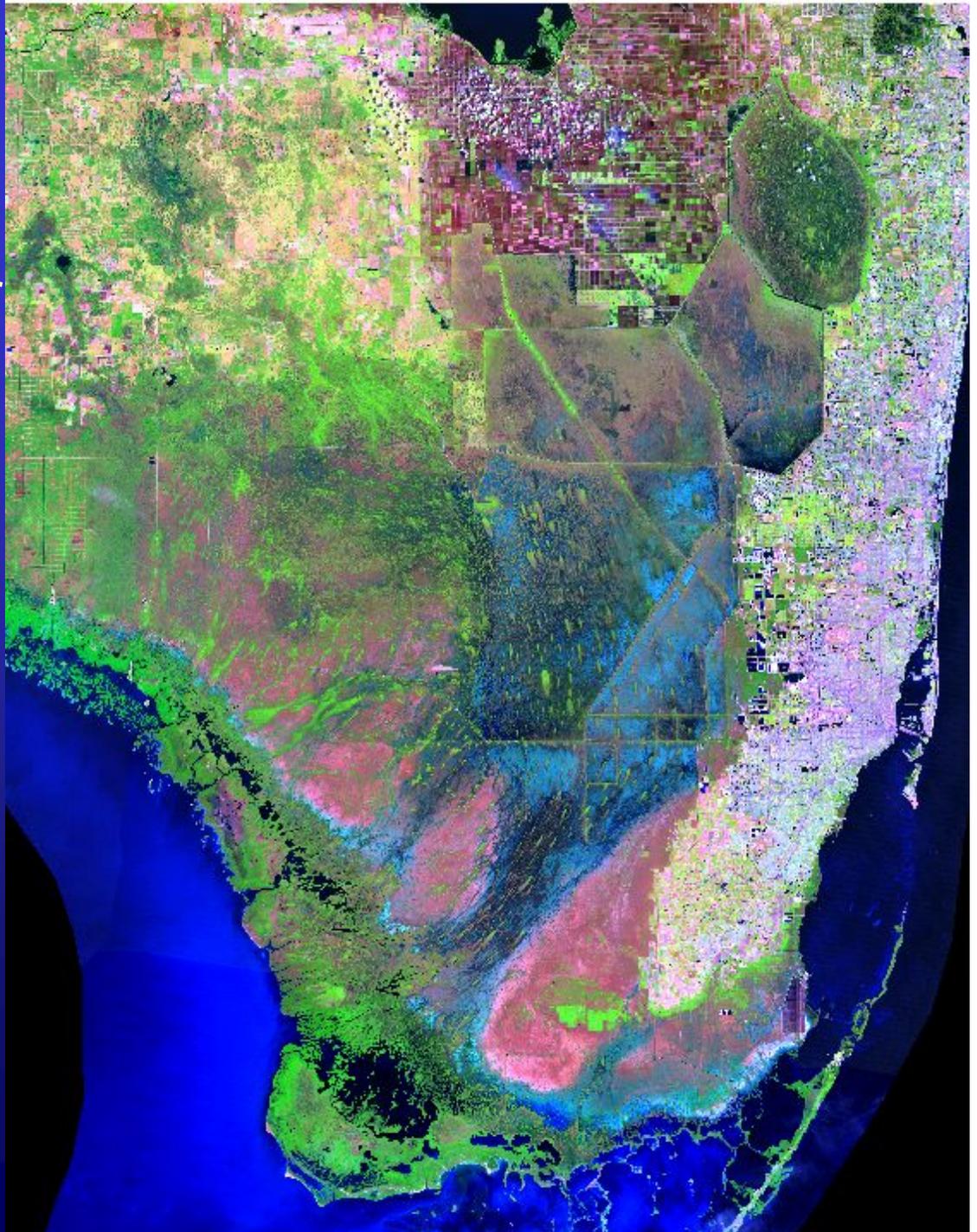
**Current
Flow**

South Florida Flourished



The Ecosystem in Trouble....

- Too much/too little water for the Everglades/south Florida ecosystem
- Massive reductions in wading bird populations
- 68 Threatened and Endangered species
- Degradation of water quality
- Repetitive water shortages and salt water intrusion
- Declining estuary health
- 1.7 billion gallons of water a day wasted to tide



A white egret stands in a field of tall, dry grass. The bird is facing right, with its long neck curved downwards. The background is a clear blue sky. The text "What we are doing about the problem..." is overlaid on the right side of the image in a bold, yellow font with a black outline.

**What we are
doing about
the problem...**

Modified Water Deliveries to Everglades National Park



Completed:

- S-355A&B
- Tigertail Camp
- Removal of 4 miles of L-67 Ext
- Interim S-356
- Report of Tamiami Trail

Ongoing:

- Closeout of RE Acquisition in 8.5 SMA
- Construction of 8.5 SMA work
- Design of Tamiami Trail Bridge Plan

Upcoming:

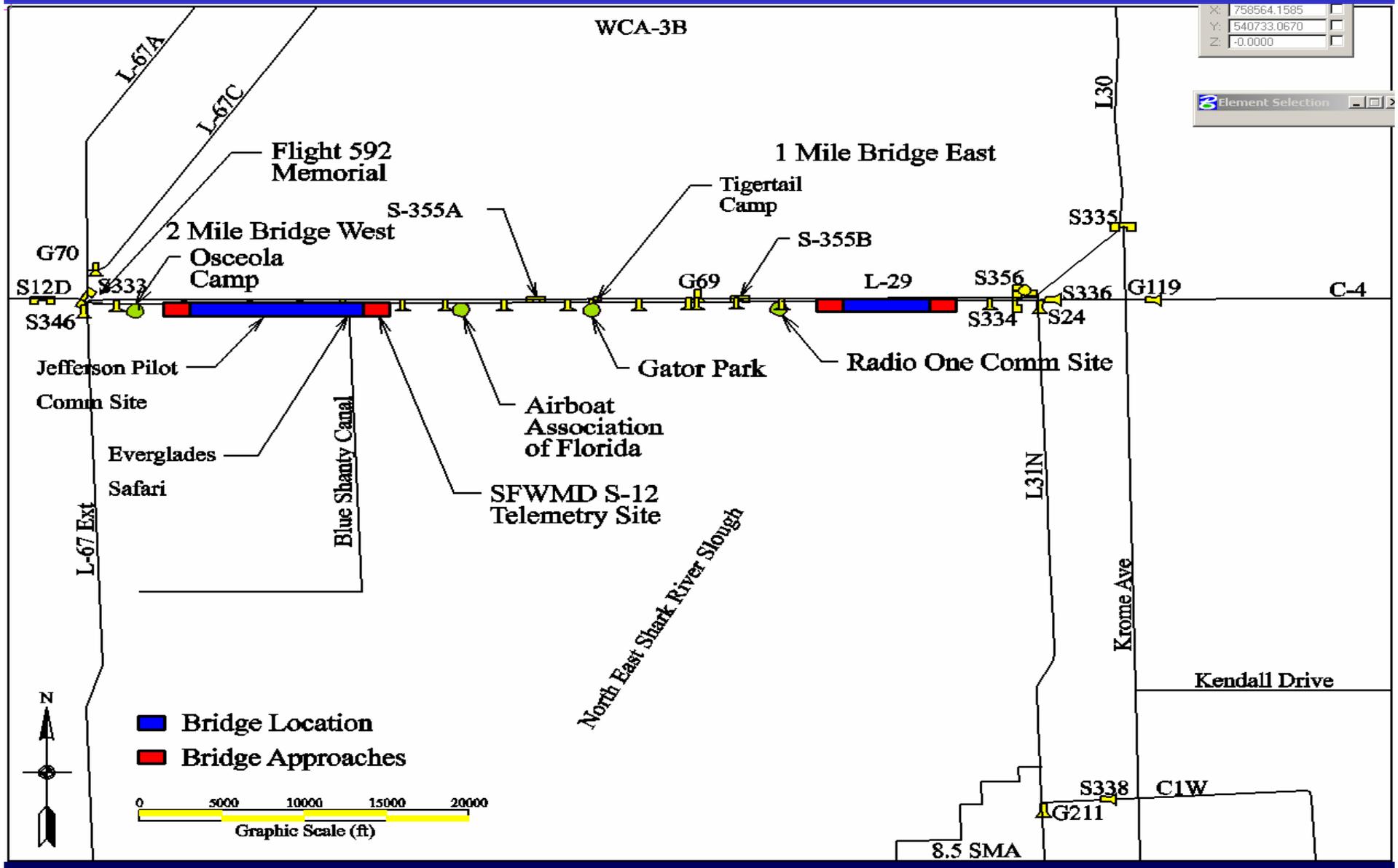
- Tamiami Trail contract in FY 07
- Conveyance Contract in FY 08

8.5 SMA Contract Awarded



Awarded on 20 Sept 2005
For \$16.99 million – Complete by end of 2006

Tamiami Trail - Approved Plan 2 Mile Bridge West and 1 Mile Bridge East



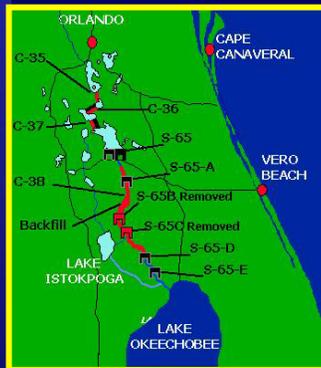
South Florida Ecosystem Restoration continued

Current Program

Modified Water Deliveries to ENP

(Funded Thru DOI)

Kissimmee River Restoration



Critical Projects Program

Continuing Authorities Program (1135, 206)

Central & Southern Florida Project

Upper St Johns

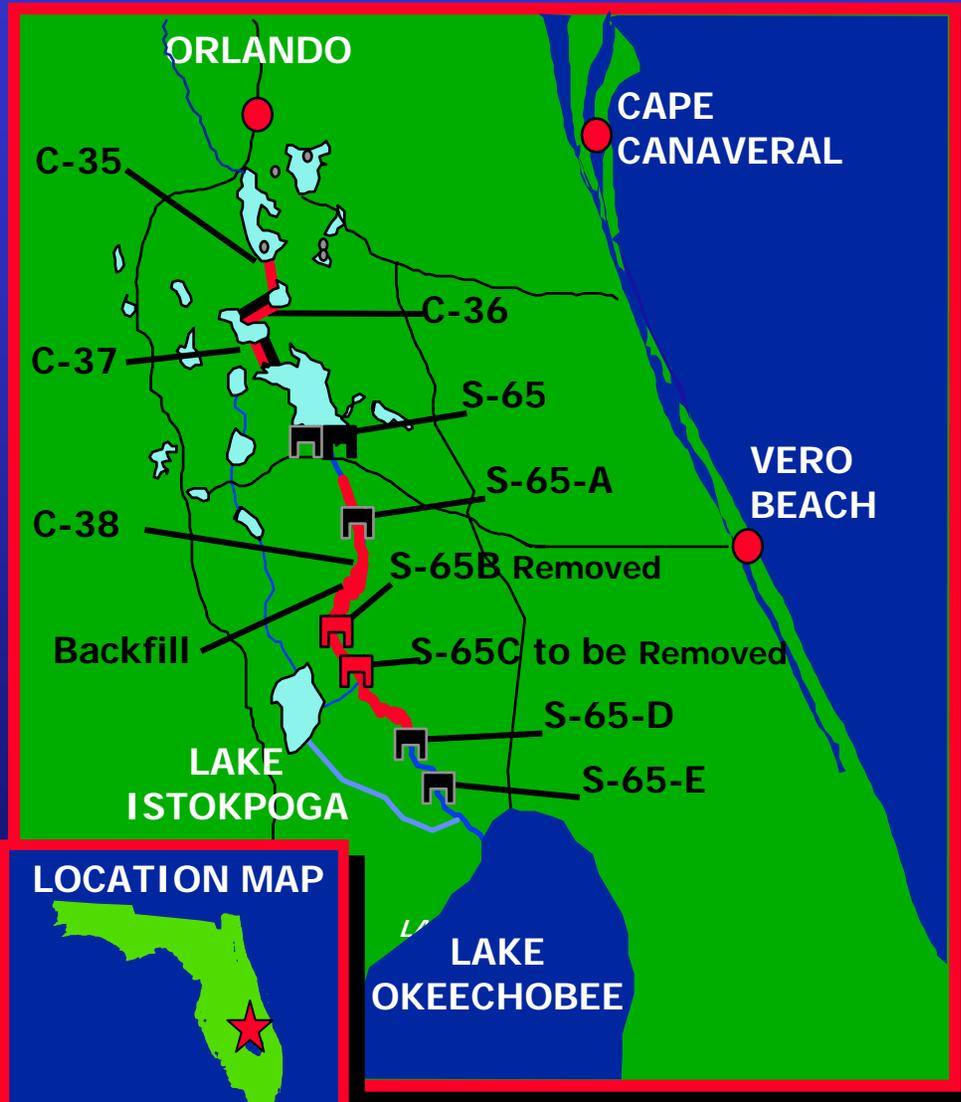
Manatee

C-51 / STA-1E

C-111

CERP

Kissimmee River Restoration



- **Authorization:** WRDA 92
- **Features:** 22 Miles of Canal Backfilling and Structure Removal along with Land Acquisition of over 100,000 acres
- **Project Cost:** \$578 Million
- **Cost Share:** 50/50
- **Local Sponsor:** South Florida Water Management District
- **Status:** Construction Underway, 1st backfill contract for 7 miles complete, Flood proofing work underway. Next backfill contract ready to award to restore 4 more miles
Land acquisition to be complete next month
3 Future Backfill contracts to complete in 2011

South Florida Ecosystem Restoration continued

Current Program

Modified Water Deliveries to ENP

(Funded Thru DOI)

Kissimmee River Restoration

Critical Projects Program



Continuing Authorities Program (1135, 206)

Central & Southern Florida Project

Upper St Johns

Manatee

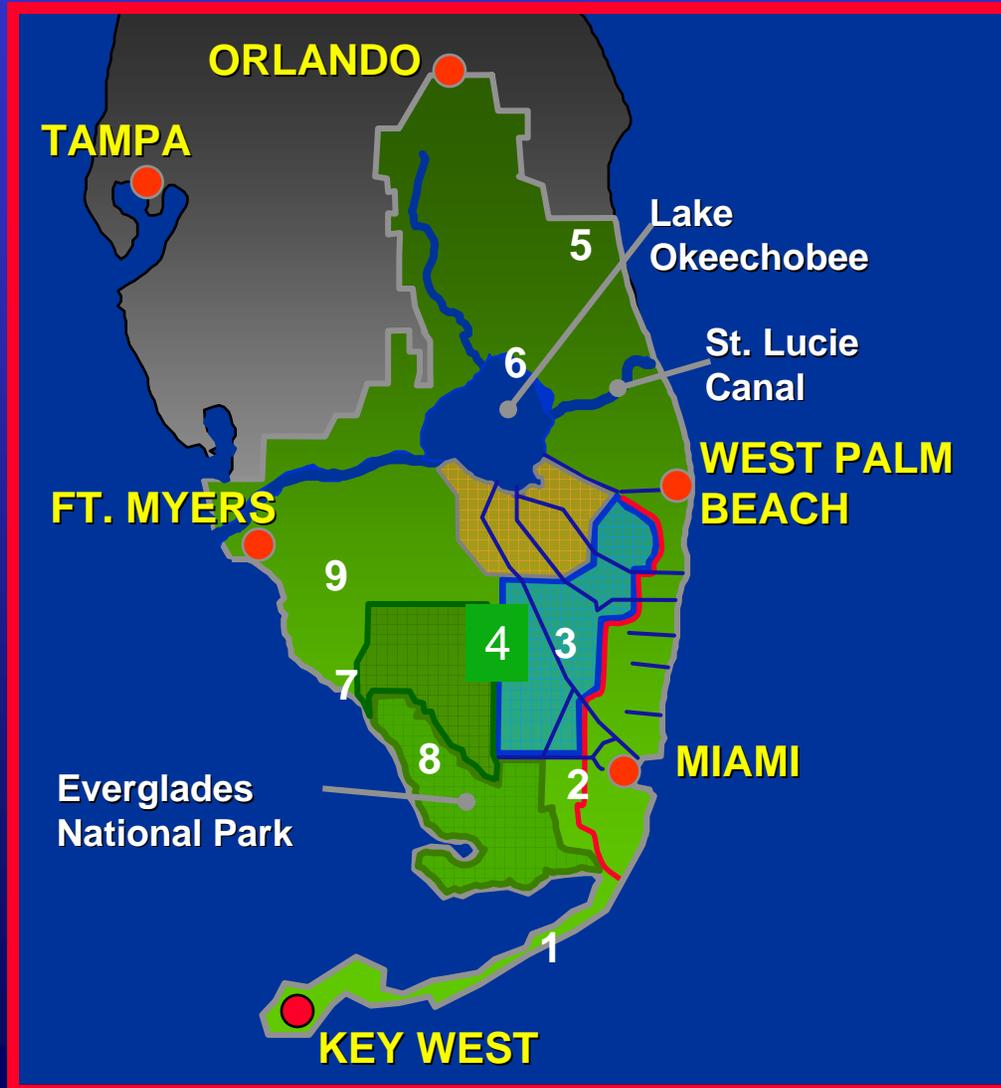
C-51/STA-1E

C-111

CERP

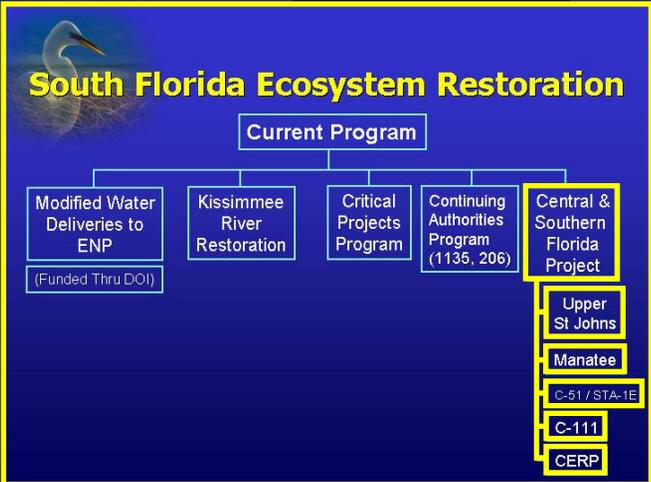
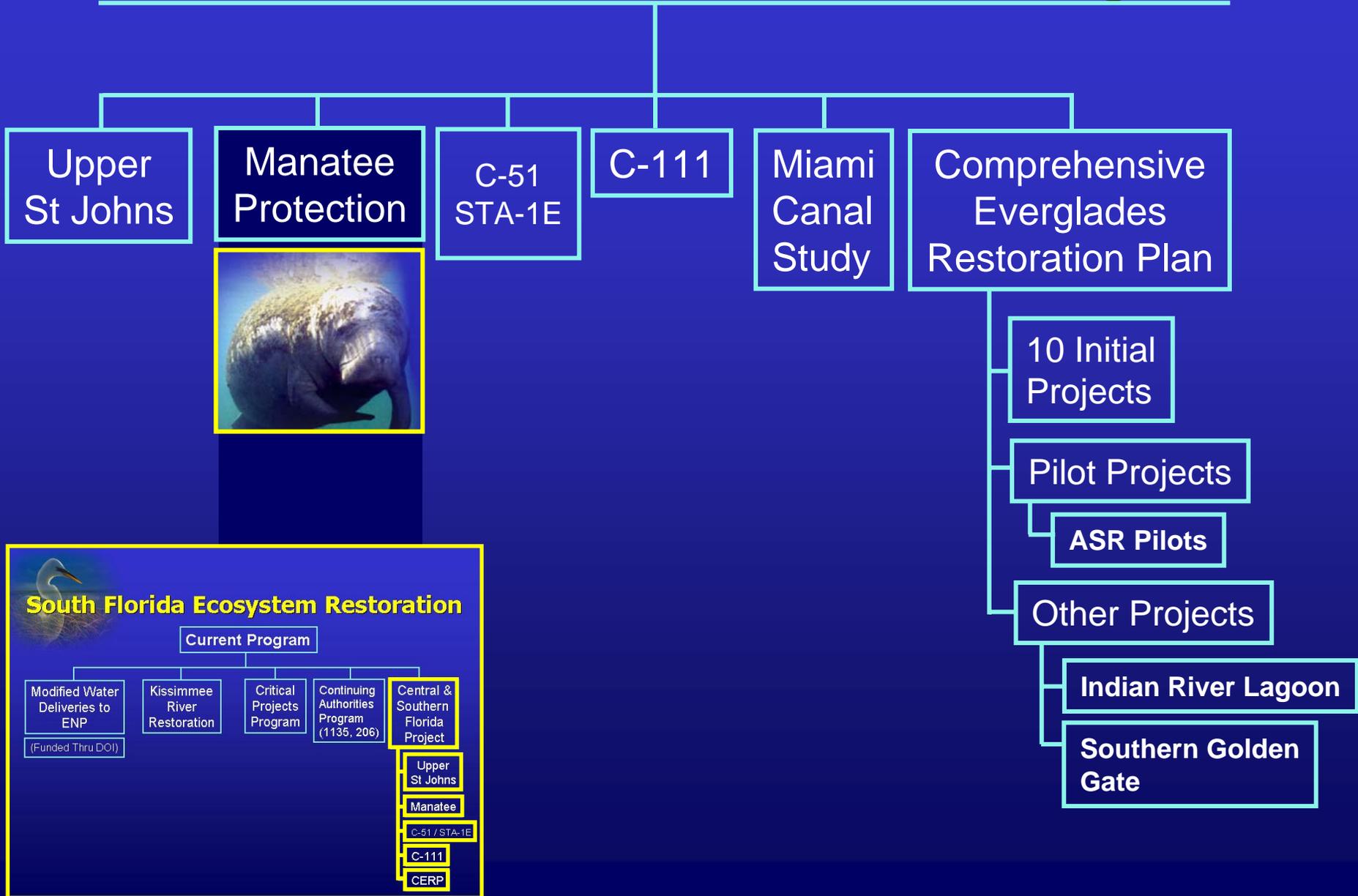
Critical Ecosystem Restoration Projects

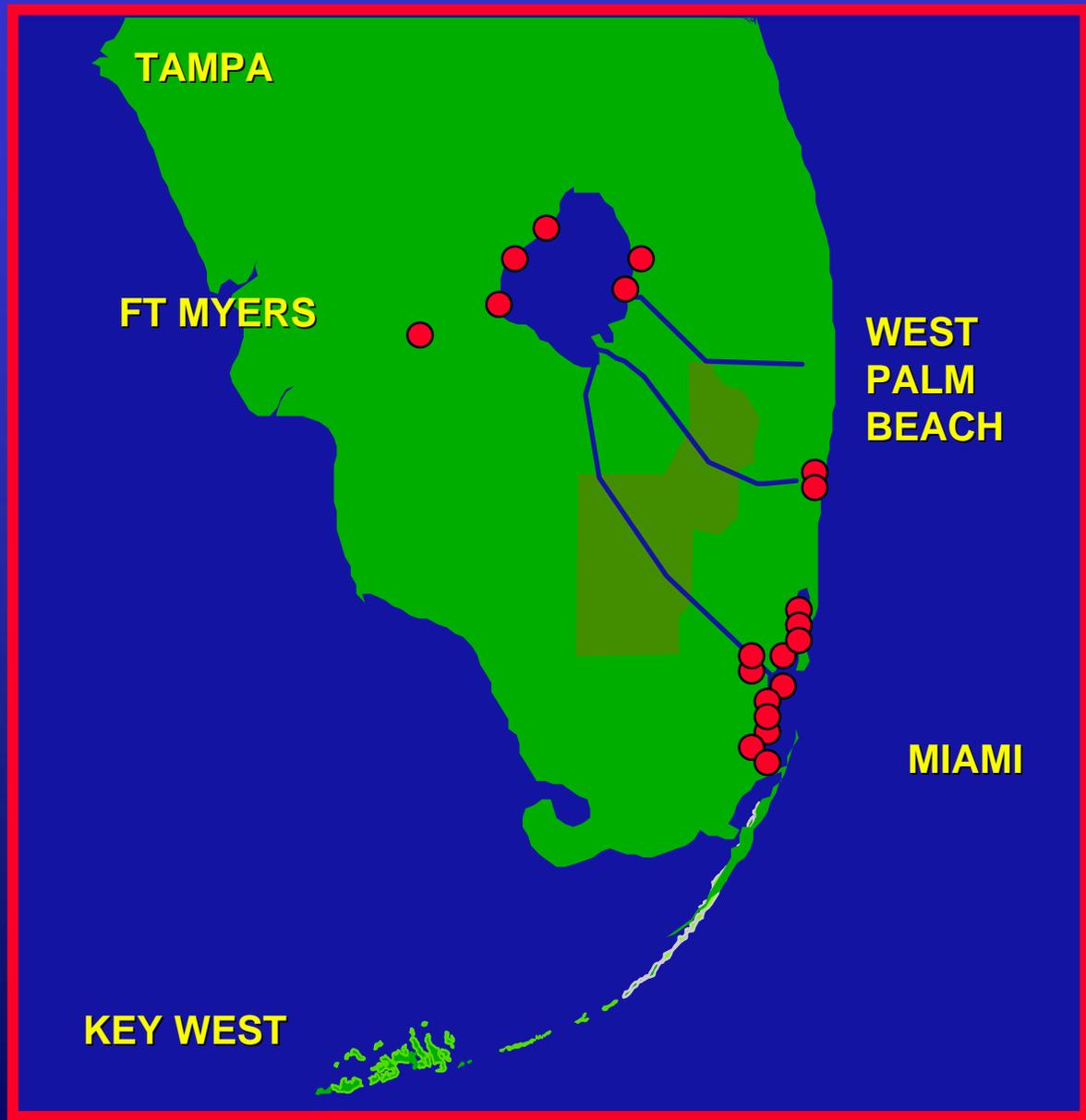
Special Program authorized by Congress in 1996
at total cost of \$150 million



1. Keys Carrying Capacity
2. C-4 East Coast Canals
3. Western C-11
4. **Seminole-Big Cypress**
5. Ten Mile Creek
6. **Lake Okeechobee**
7. Southern CREW
8. Tamiami Trail Culverts
9. Lake Trafford Restoration

Central & Southern Florida Project





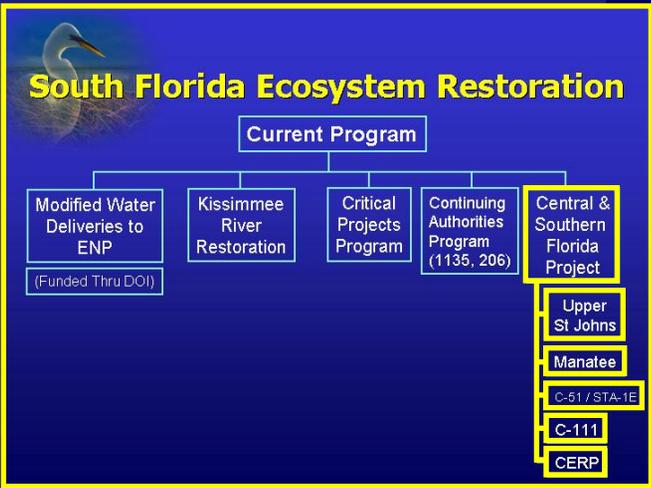
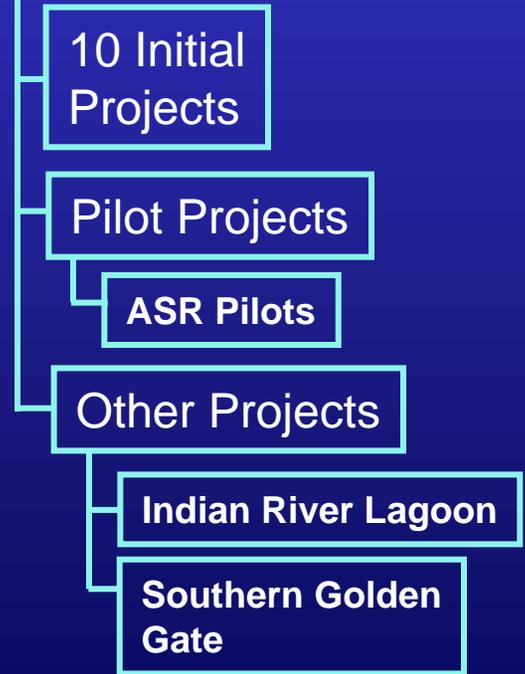
CENTRAL AND SOUTHERN FLORIDA PROJECT

Manatee Pass Gates



Phase 1 nearly complete
Phase 2 work starting

Central & Southern Florida Project



CENTRAL AND SOUTHERN FLORIDA PROJECT

West Palm Beach Canal (C-51) / STA 1E

PROJECT COSTS

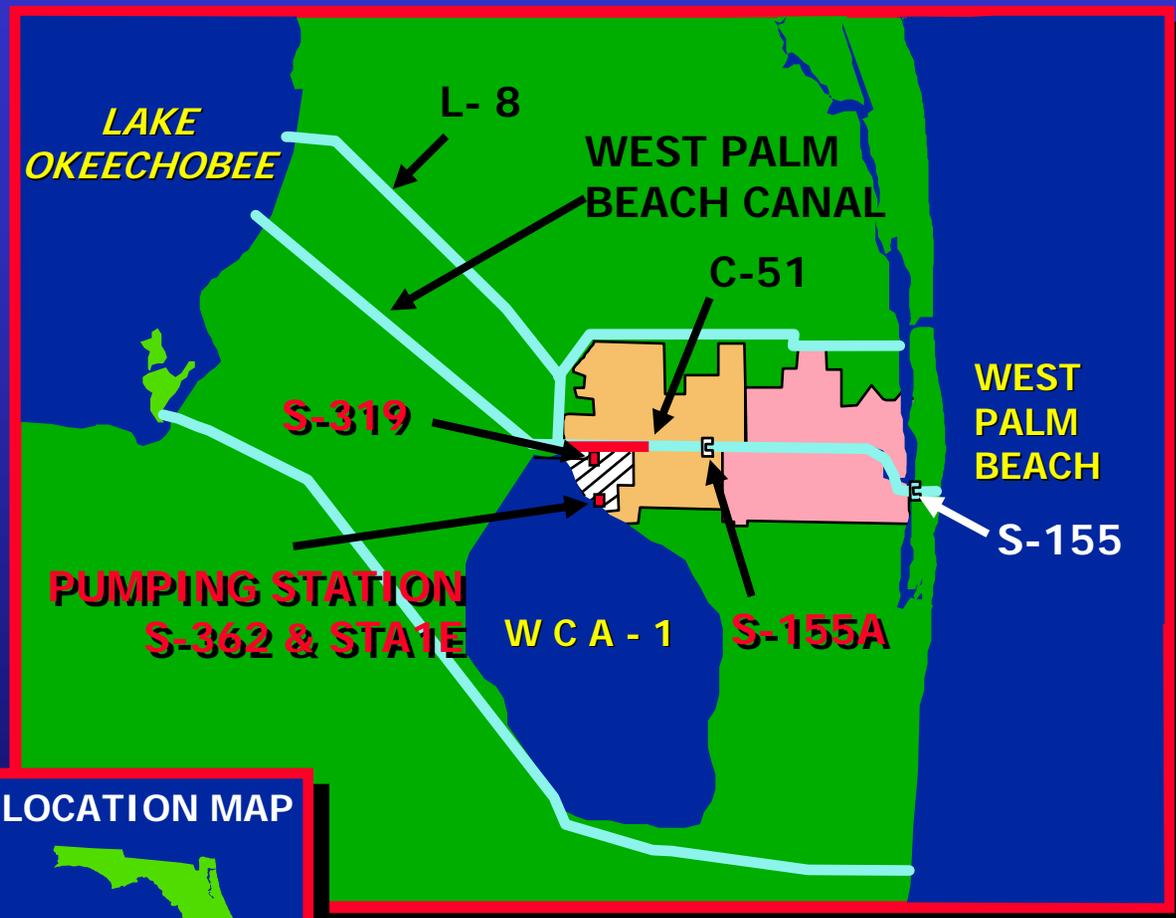
Total	\$259,100,000
Federal	\$232,900,000
Non-Fed	<u>\$ 26,200,000</u>

COST SHARING: 91/9

SPONSOR: SFWMD

PURPOSE: Flood Control, Water Quality, Water Supply

STATUS: Construction complete with transfer to SFWMD for operations. PSTA field test contract awarded. L-40 work under design with award later this year



Field Test !

STA-1E

Conceptual Plan to Achieve 10 ppb Phosphorus



Emergent Growth



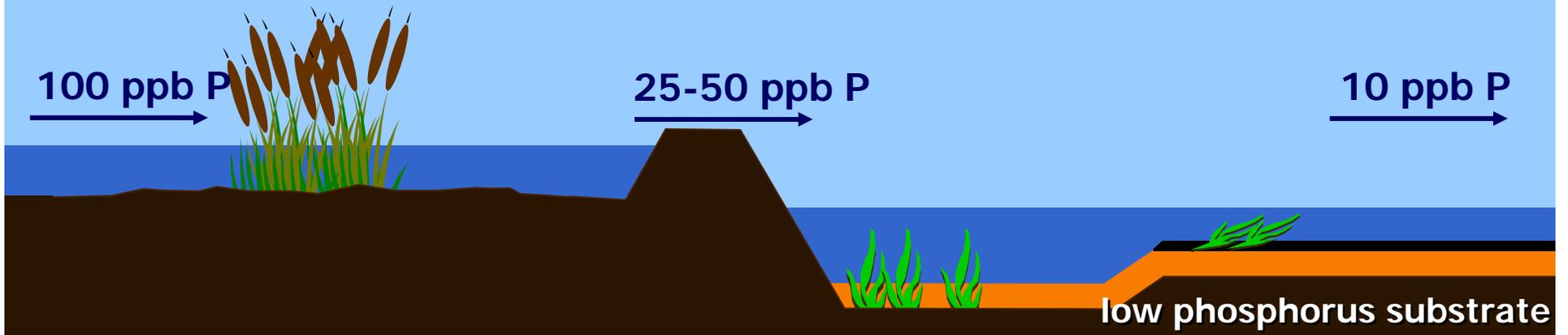
Submerged Aquatic Vegetation (SAV)

1 yr of sedimentation

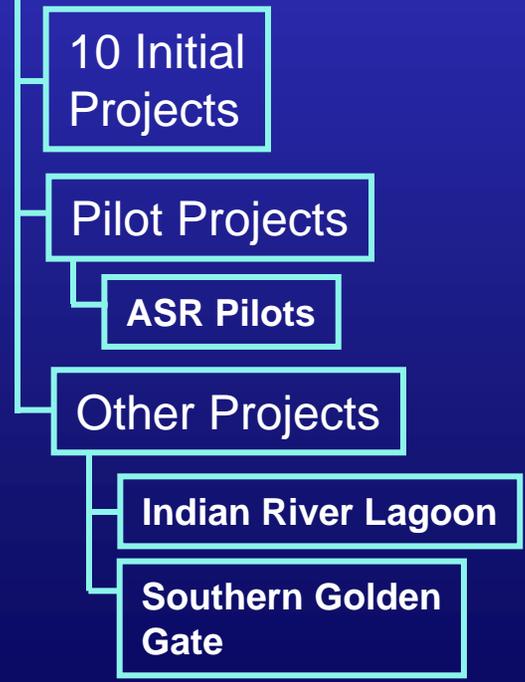
2 cm



Periphyton (PSTA)



Central & Southern Florida Project



CENTRAL AND SOUTHERN FLORIDA PROJECT SOUTH DADE COUNTY (C-111)

PROJECT COSTS

Total	\$274,670,000
Federal	\$137,335,000
Non-Fed	\$137,335,000

COST SHARING: 50/50

SPONSOR: SFWMD

PURPOSE: Environmental Restoration, Flood Control, and Water Supply

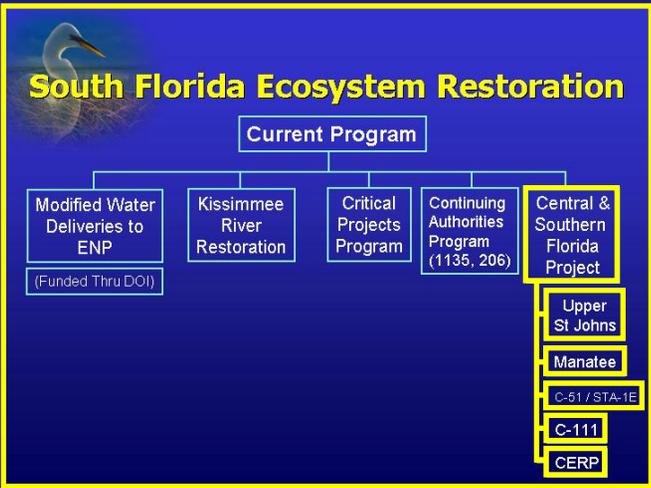
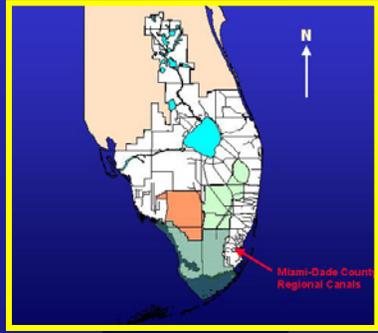
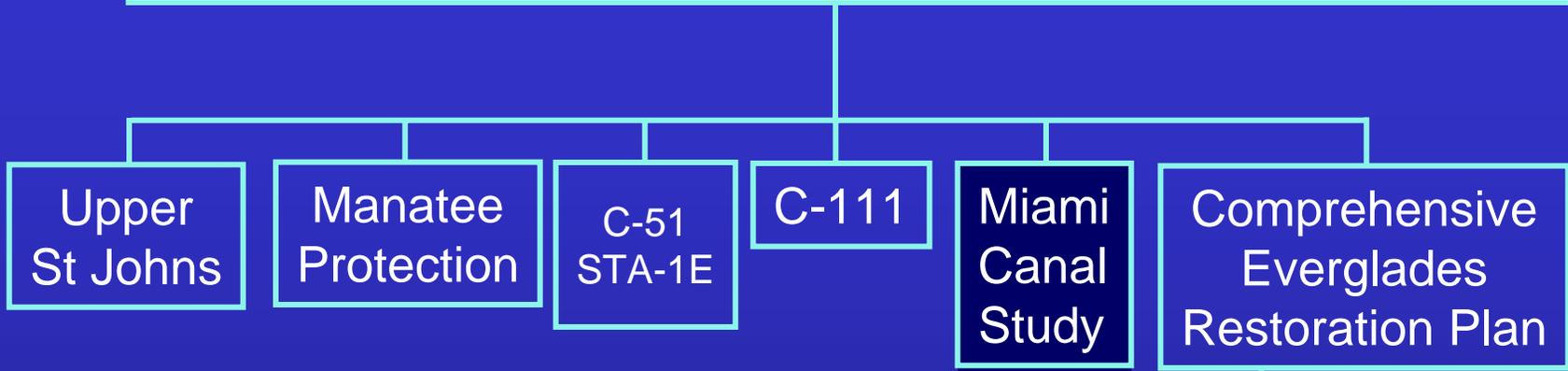
STATUS: Design continuing on next phase of buffer construction. Construction scheduled for S-331 Command Bldg followed by remaining detention basins and permanent pump stations



LOCATION MAP



Central & Southern Florida Project



Lake Okeechobee Regulation Schedule Review



Scope:

- Modification of current WSE schedule
- Options to reduce number and frequency of high water events and large discharges to estuaries

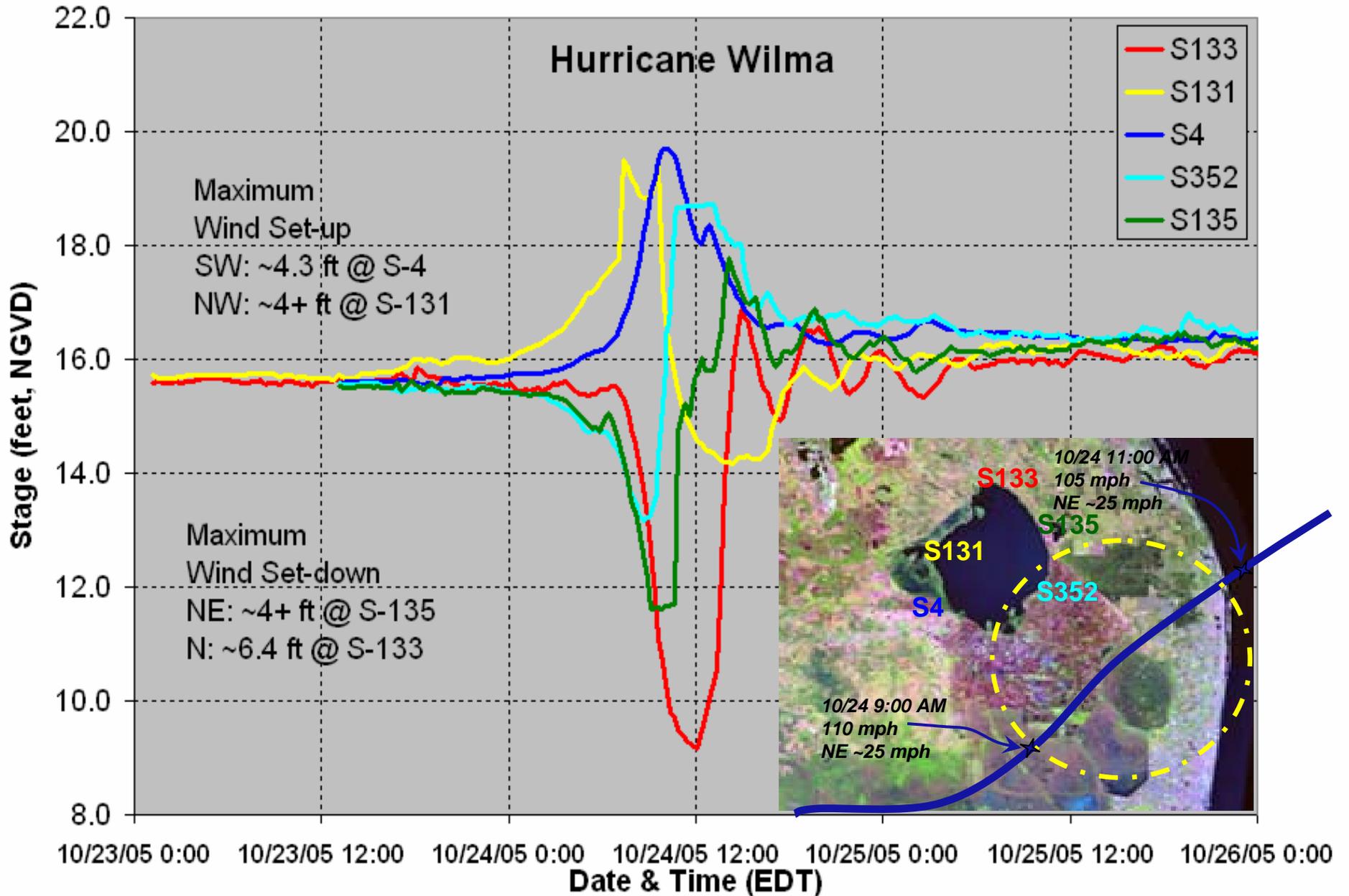
Status:

- Developing Alternatives
- Completion in Dec 06

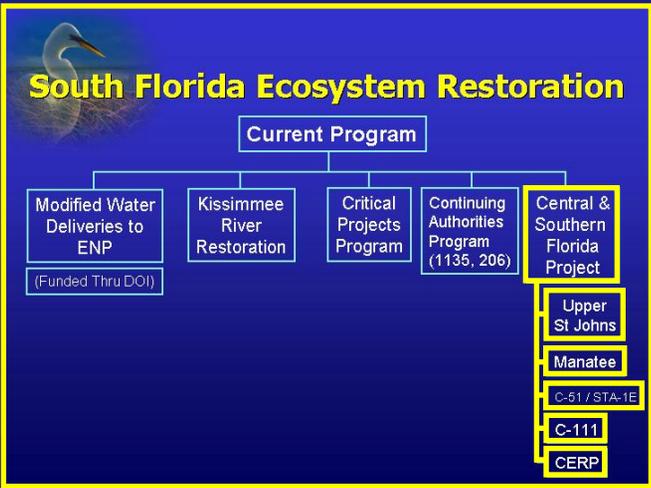
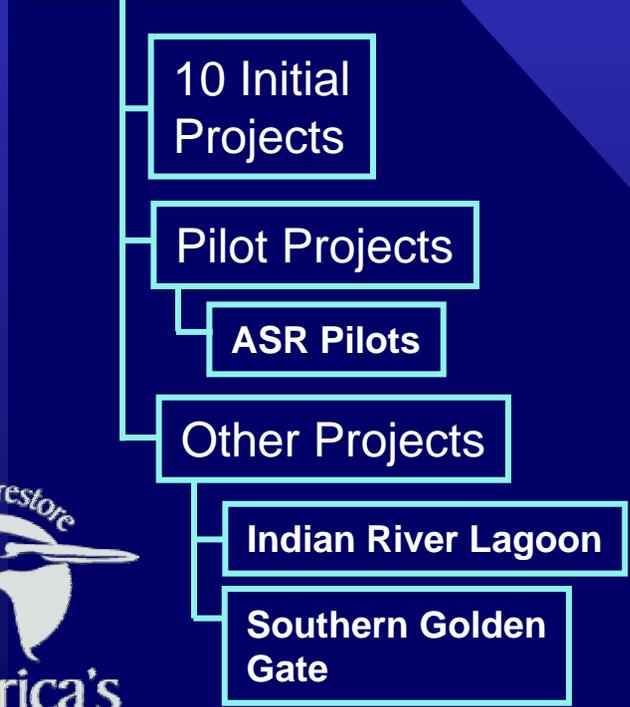
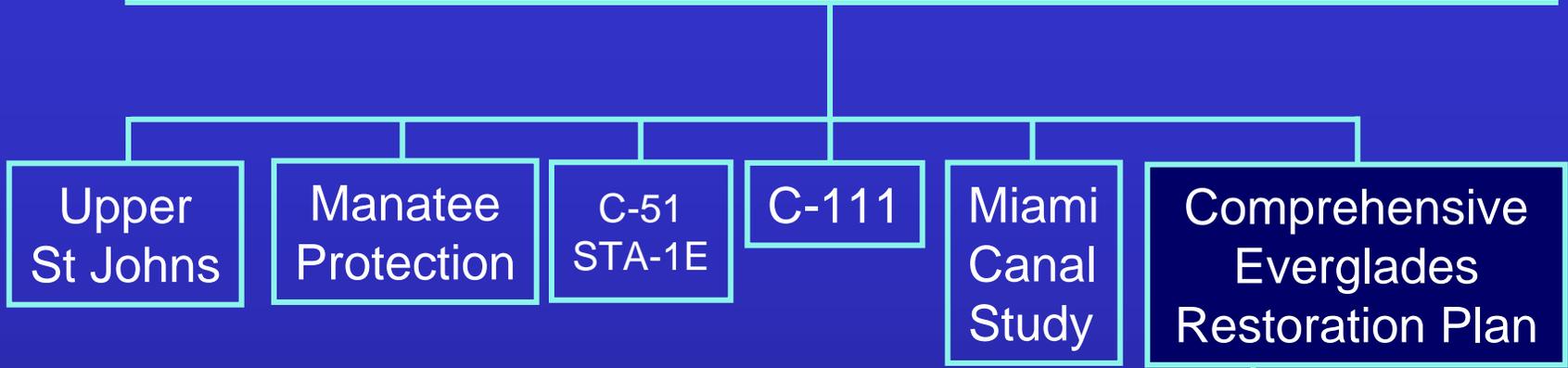
Issues:

- Potential impacts to water supply
- HDD

Lake Okeechobee Stages



Central & Southern Florida Project



CERP is all about Getting The Water Right

Quantity

Quality

Q

Q

T

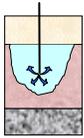
D

Timing

Distribution



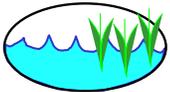
68 CERP Components



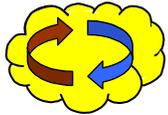
Aquifer Storage
& Recovery – 330
Wells



Surface Water
Storage Reservoir –
170,000 acres



Stormwater Treatment
Areas (STAs) – 36,000
acres



Reuse Wastewater at 2
Regional Plants



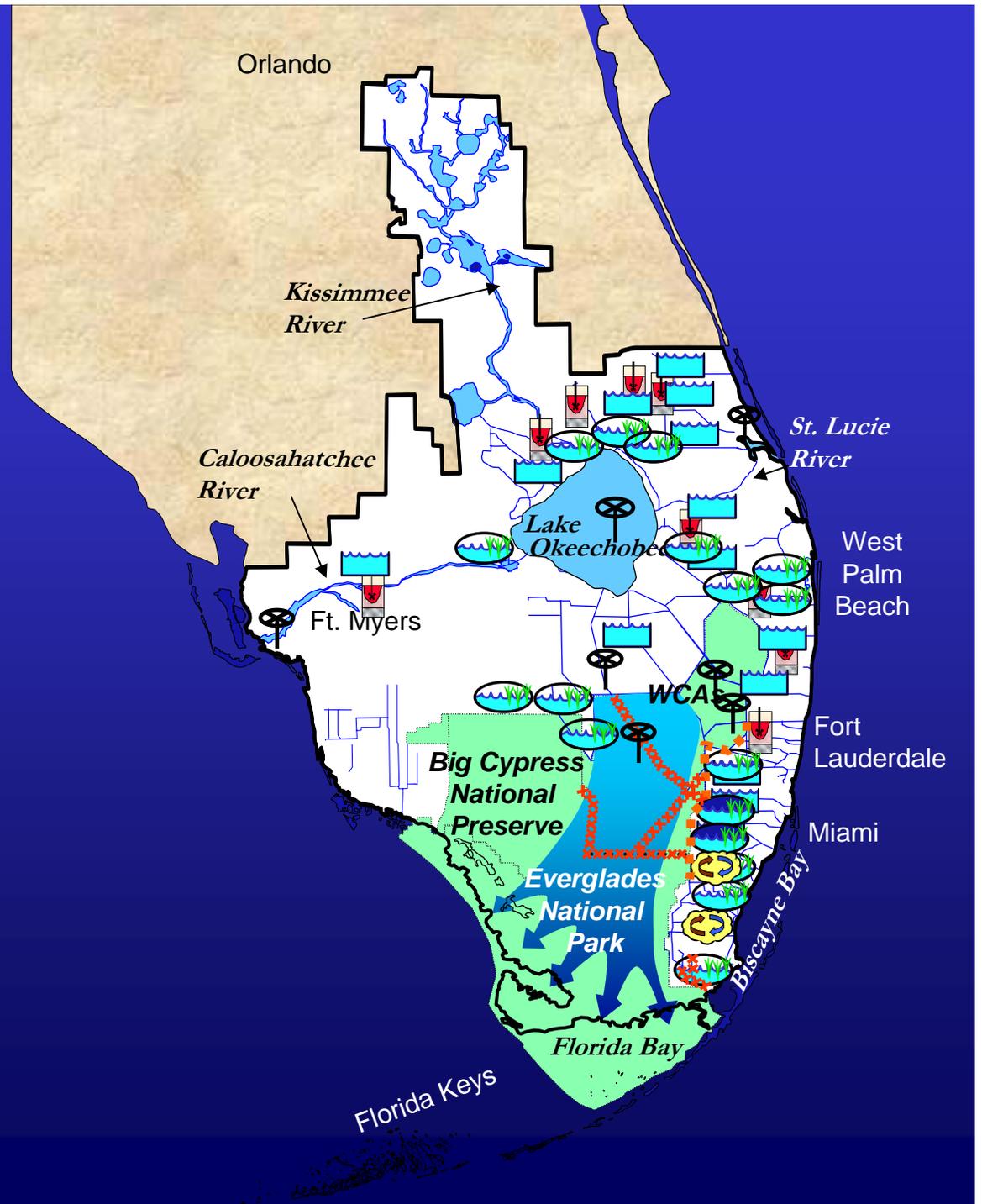
Seepage Management



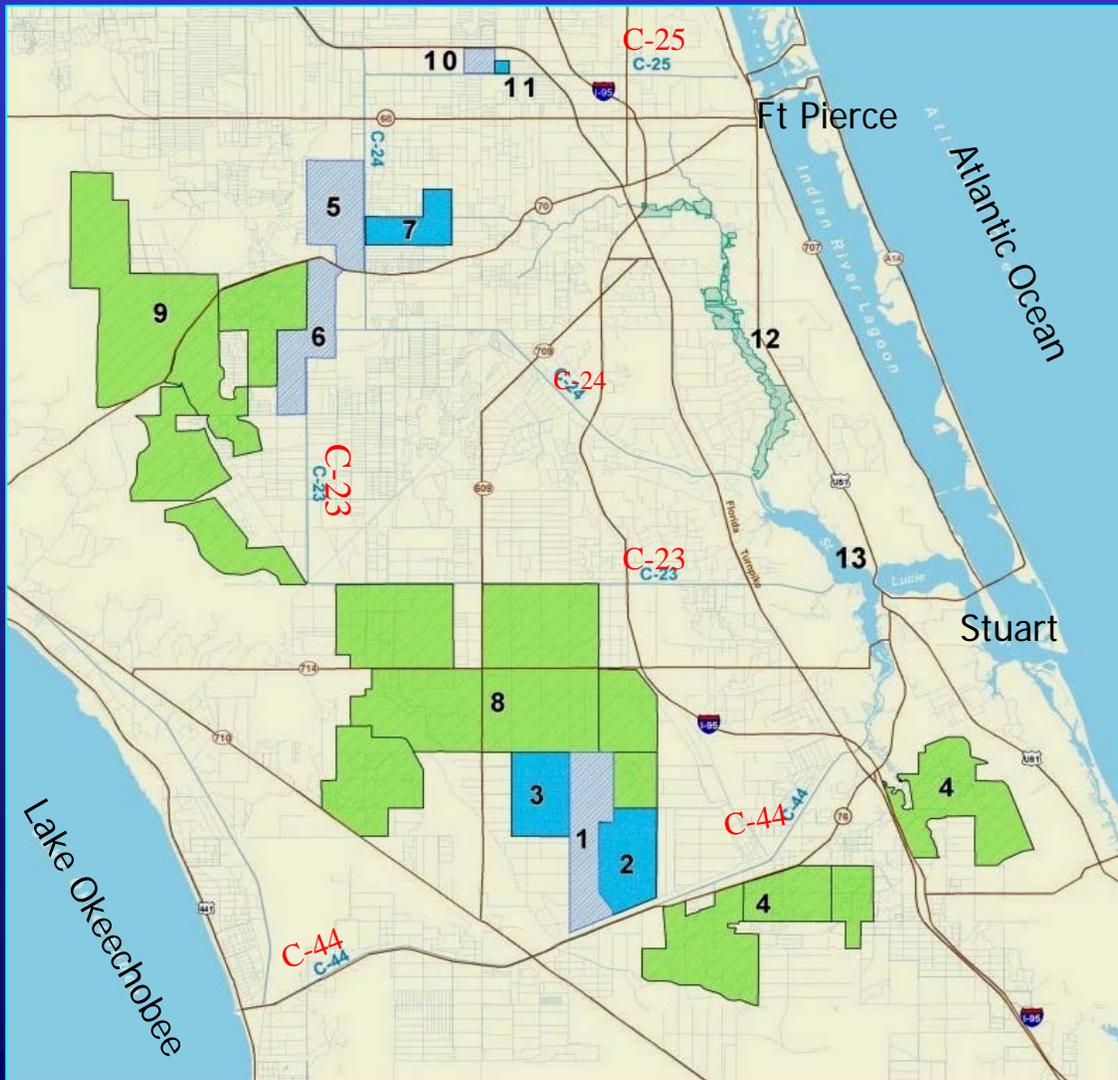
Removing 240 miles of
Barriers to Sheetflow



Operational Changes



Indian River Lagoon – South Restoration Plan



Plan:

- Reservoirs at C-44, 23, 24, 25 with STA's, 90,000 acres of Natural Storage, Muck removal, artificial reef. \$1.2 Billion

Status:

- Chief of Engineer's Report in August 04
- ASA(CW) has forwarded report to Congress
- Acceler8 proceeding with Design of C-44 Reservoir
- Land acquisition ongoing
- Design of C-23/24 reservoirs underway by Corps

Issues:

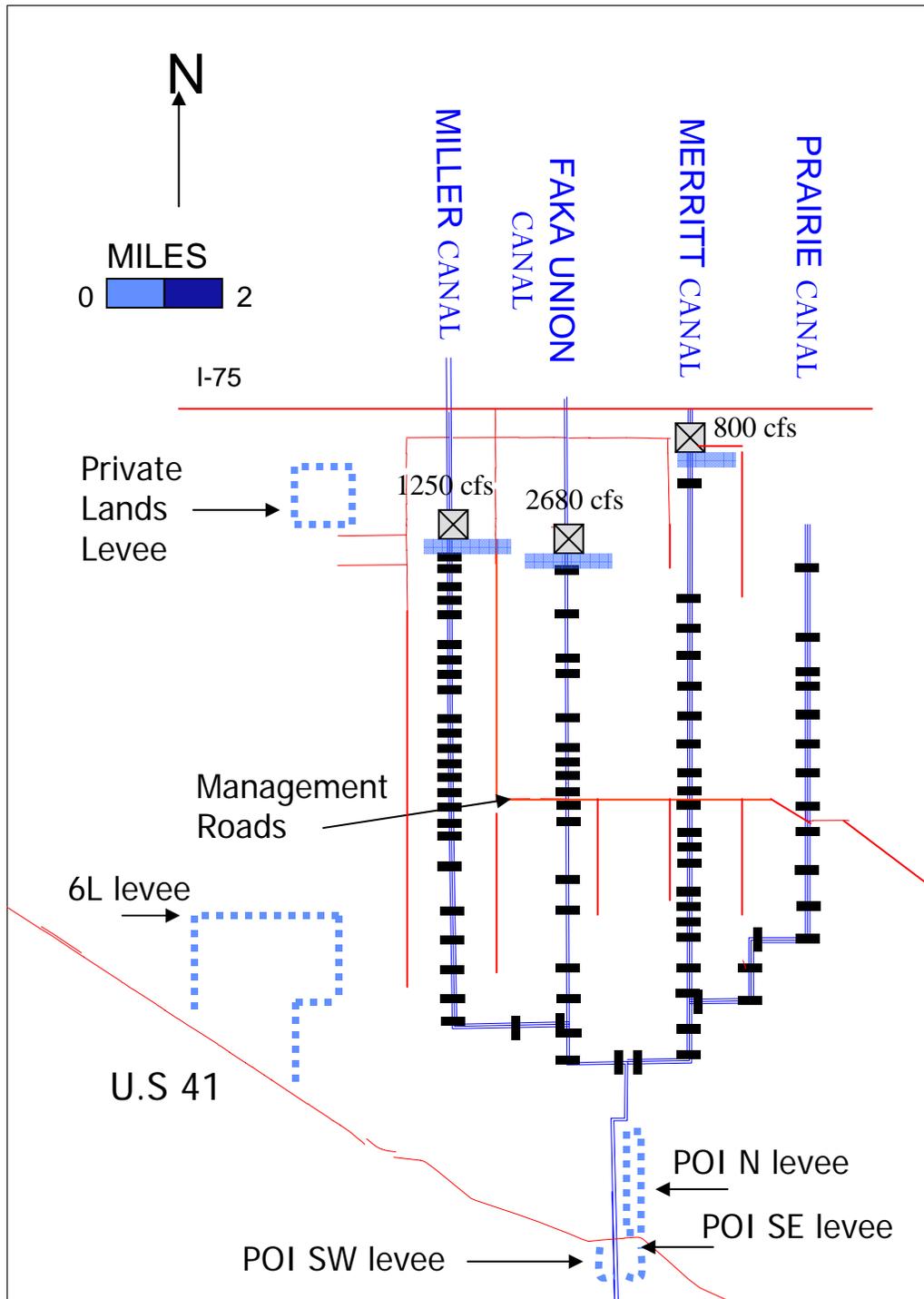
- Draft WRDA 2006 includes project

Picayune Strand Restoration

Plan: 3 Pump Stations with spreaders, 83 canal plugs, 227 miles of road removal, 3 main flood protection levees, 55,000 acres to be restored - \$349 mil

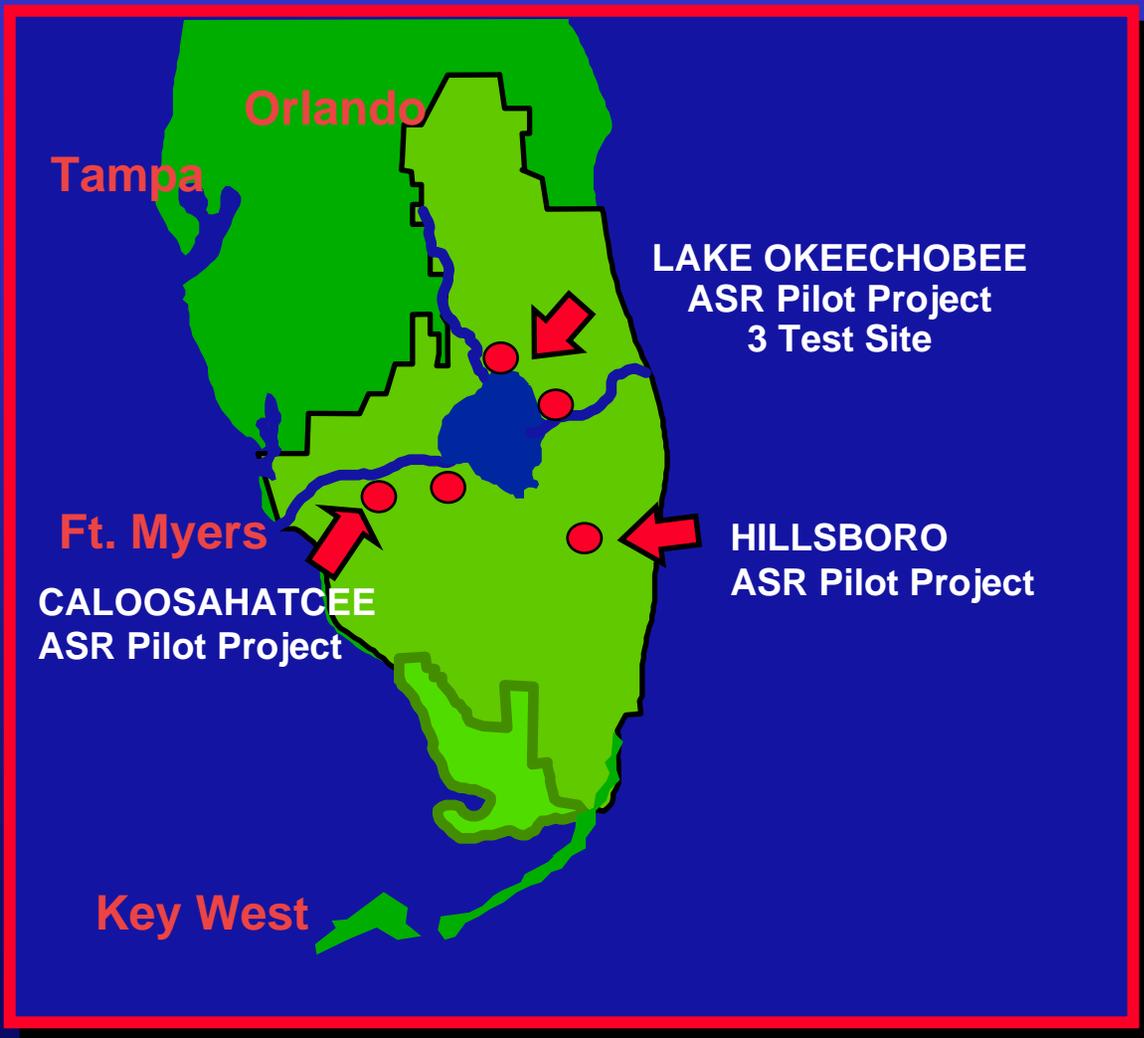
Status:

- Construction of Prairie canal plugs completed by SFWMD
- Chief's Report signed in Sept
- Land acquisition essentially complete
- Acceler8 proceeding with Design of recommended features
- Cultural Resource Survey underway by Corps
- State Div of Forestry developing land use plan
- Included in Draft WRDA 2006

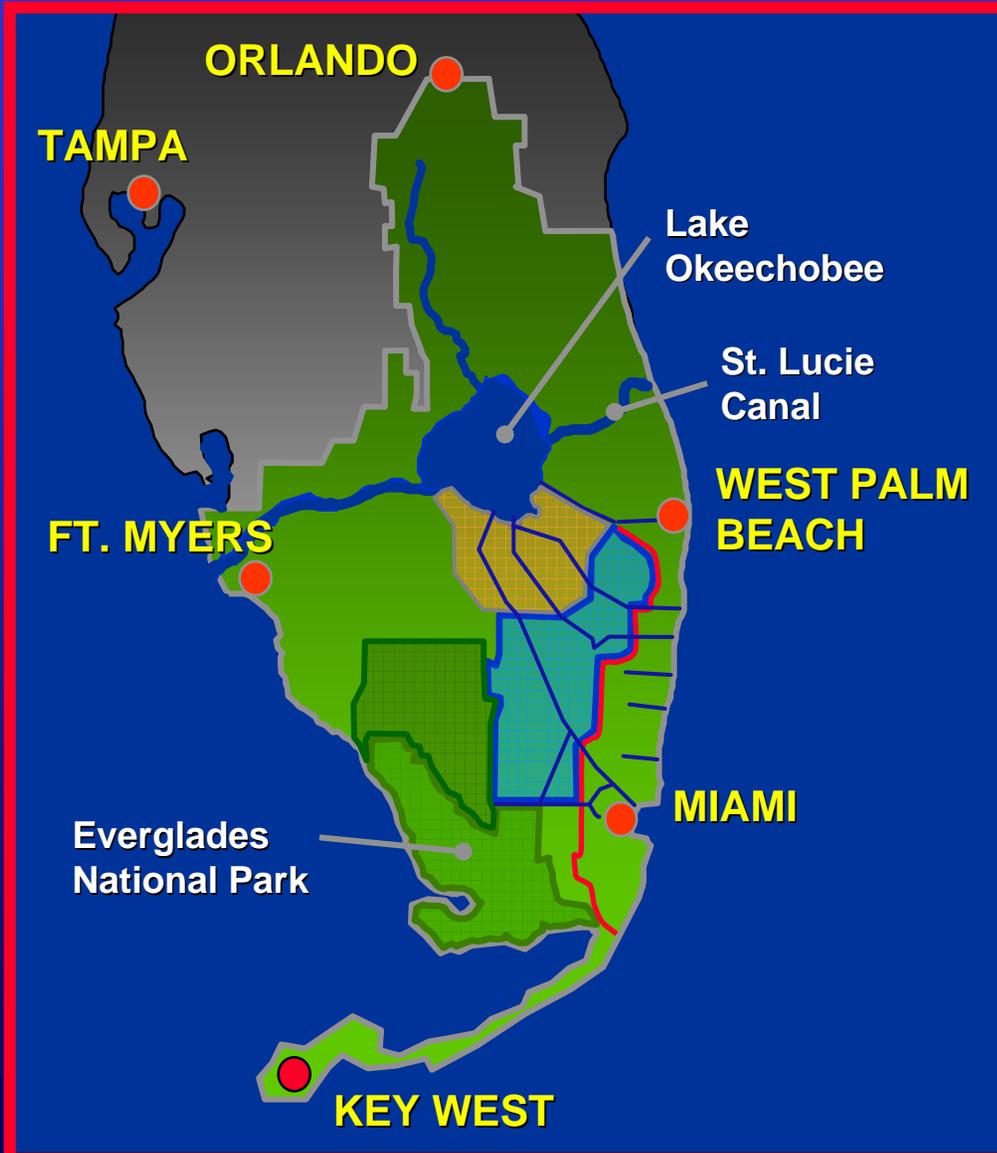


Picayune Strand

Aquifer Storage & Recovery Pilots Field Test for Lake Okeechobee Sites

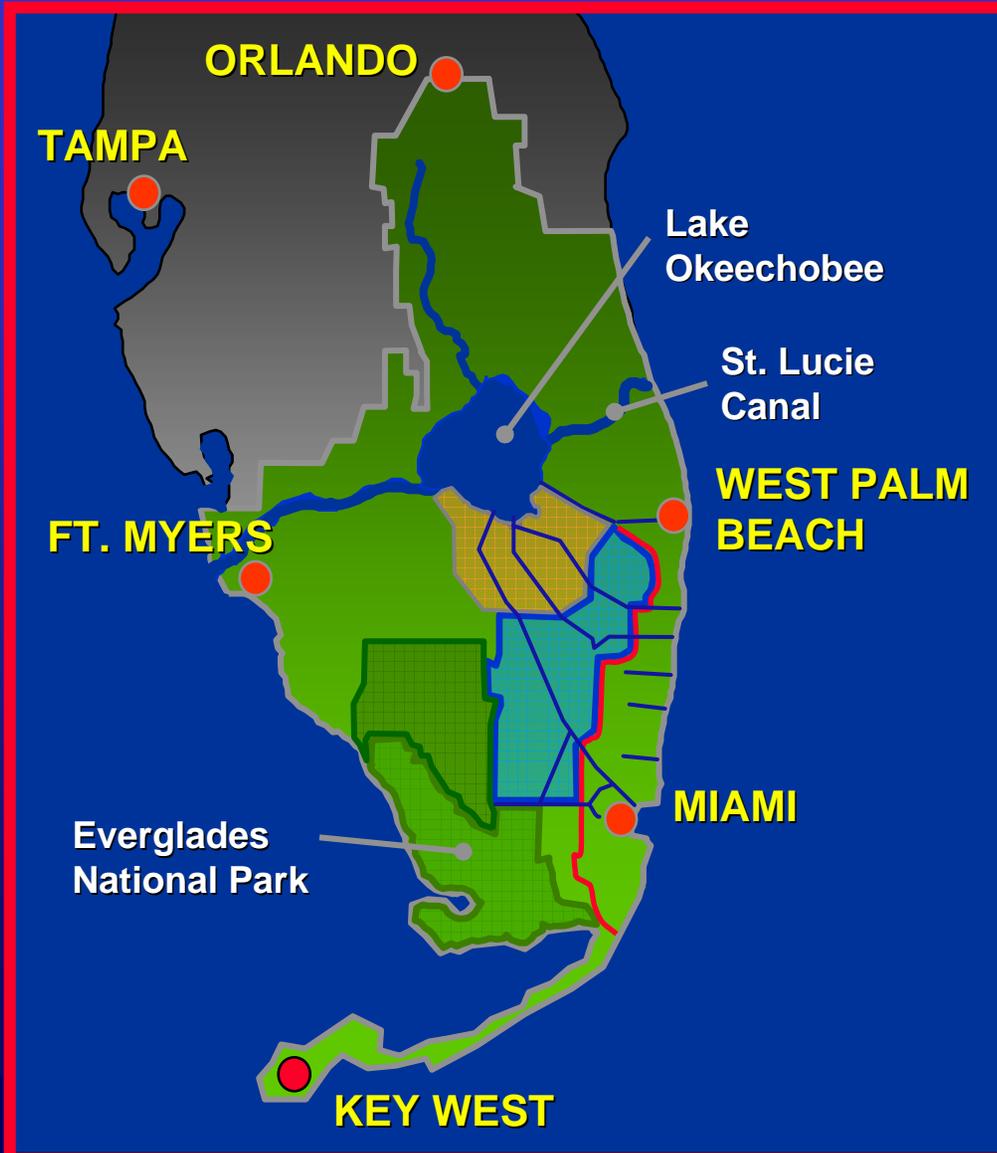


Other Near Term Project Actions



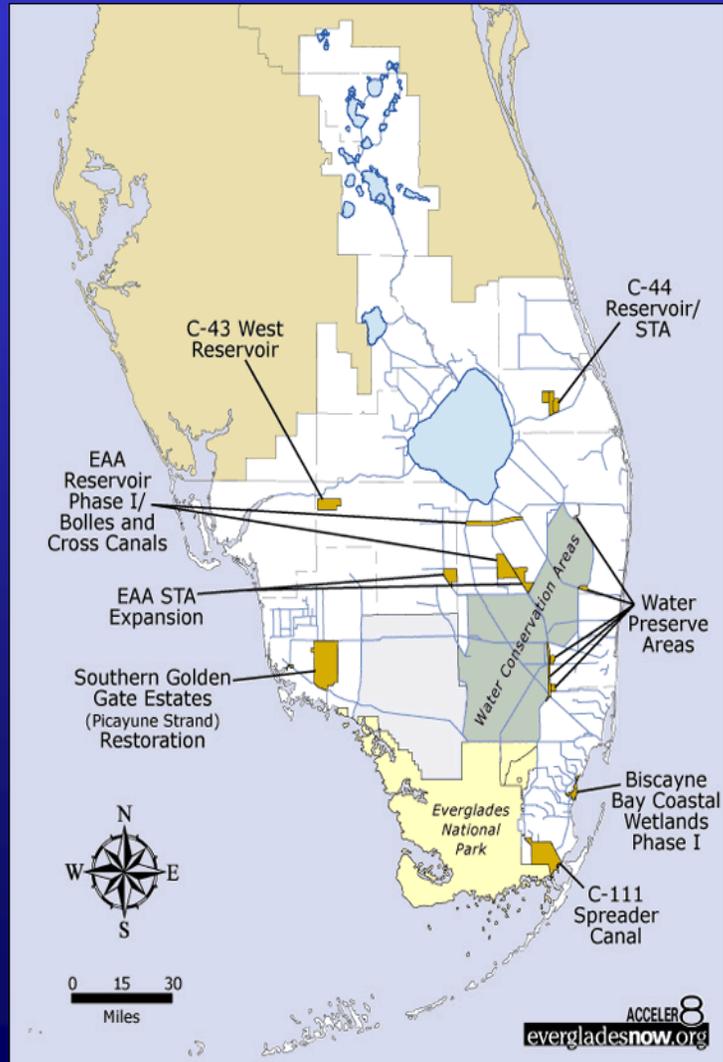
1. Site 1 - Final PIR being prepared.
2. EAA Reservoir – Draft PIR to be released this Friday for comment
3. Broward County Water Preserve Areas – Draft PIR being prepared for release in early March
4. C-43 Basin Reservoir – PIR underway & developing final alternatives to address basin needs.

Other Near Term Project Actions



5. C-111 Spreader Canal – Bridge Alignment selected, developing final alternative plans
6. Winsberg Farms – Preparing Draft PIR
7. North Palm Beach – PIR underway.
8. DECOMP PIR underway developing field test options

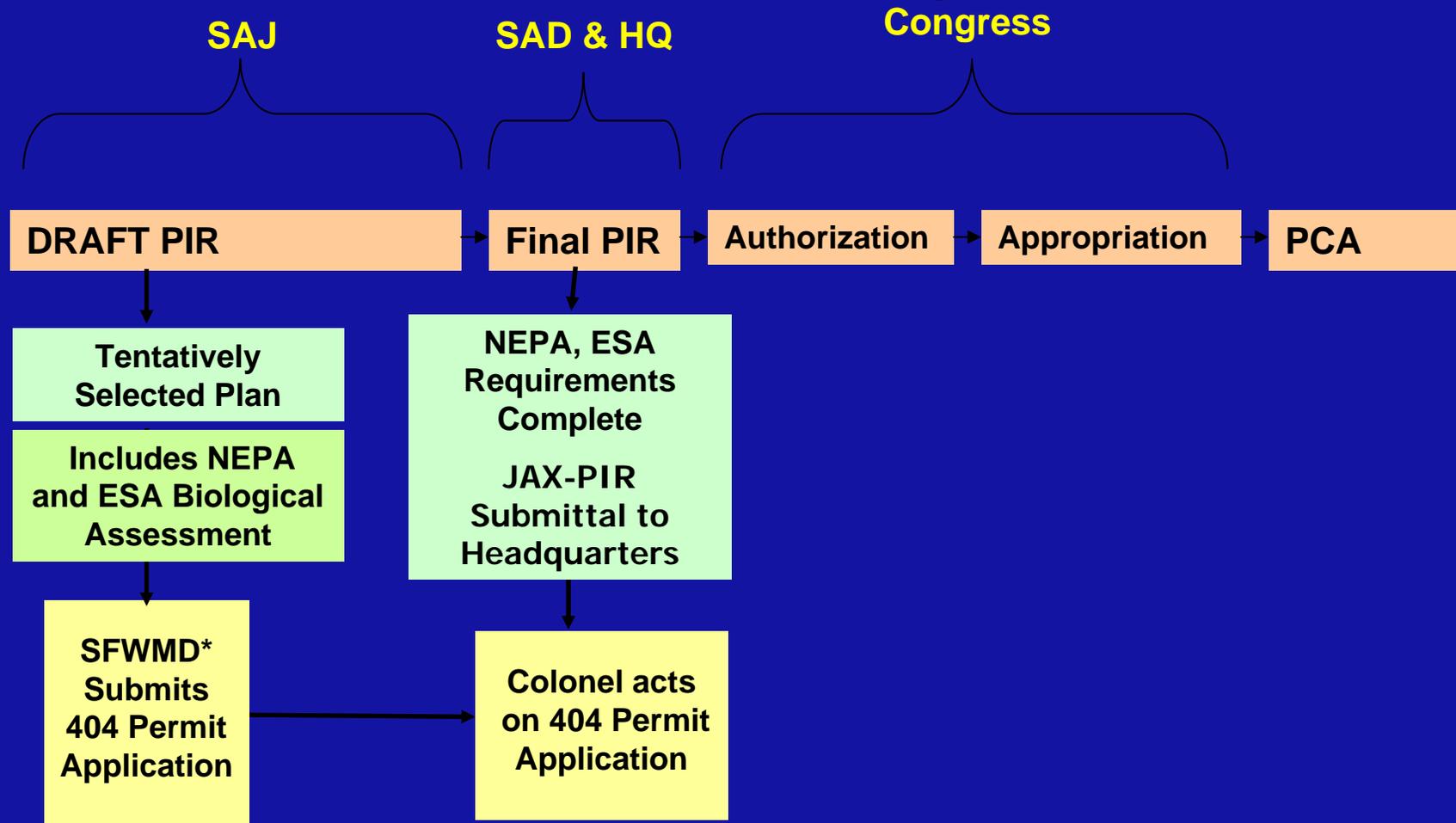
Acceler8 Projects



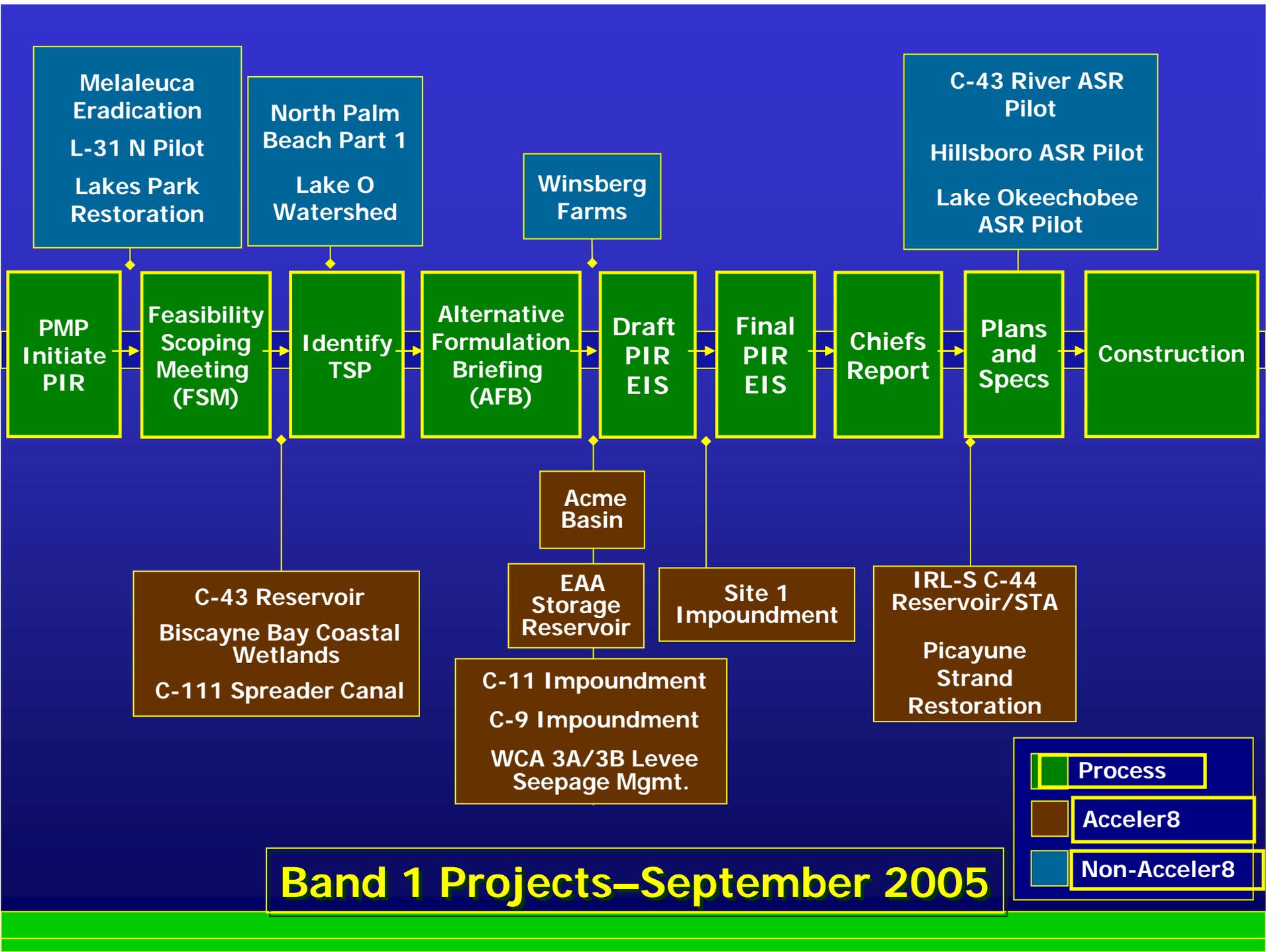
- **IRL S – C44**
- **Picayune Strand**
- **C-43 Storage Reservoir**
- **EAA Storage Reservoir**
- **Biscayne Bay Coastal Wetlands**
- **C-111 Spreader Canal**
- **WPAs**
 - **Site 1**
 - **C-9**
 - **C-11**
 - **Seepage Management**
 - **Acme B**
- **EAA STAs (B&C)**

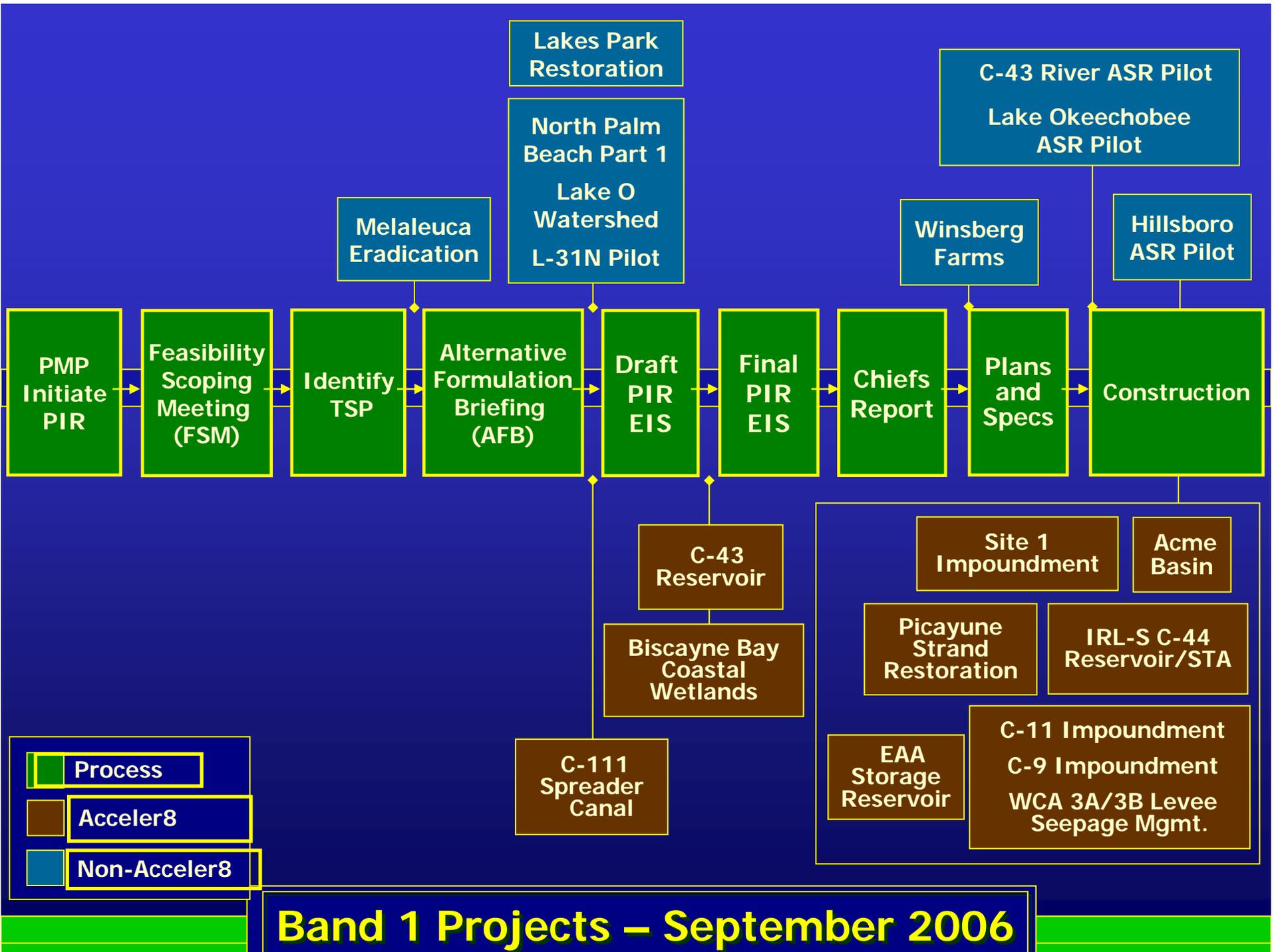
ACCELER8

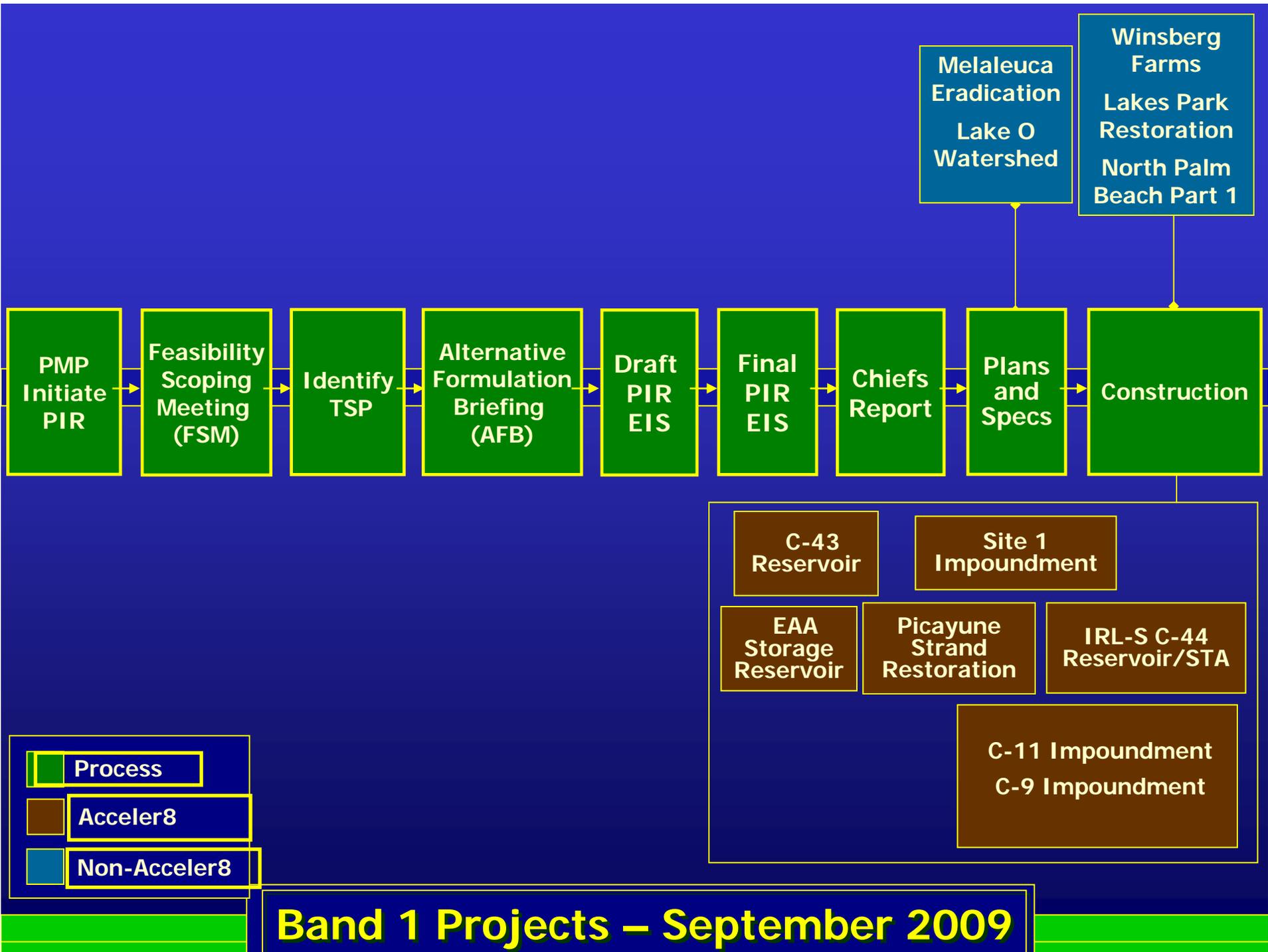
PIR and 404 Permitting Process



*SFWMD coordinates with Corps throughout 404 process and federal agencies dedicate necessary staff for timely review and approval.



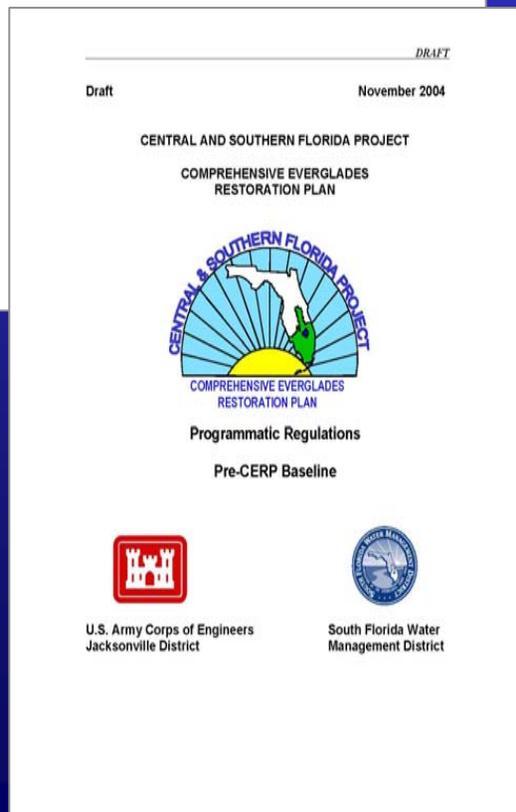
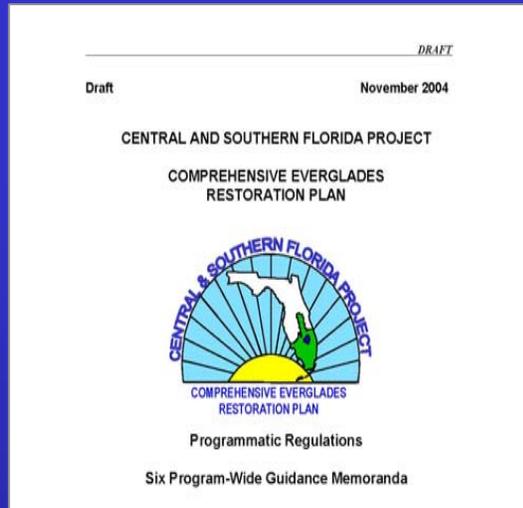






Program Guidance

- 6 Guidance Memoranda are being prepared to guide Project Delivery Teams in development of individual projects - 1, 2, 3, 5, and 6 complete. GM 4 on Identification of water under going revision to simplify process.
- Interim Goals and Targets Agreement drafted. To be presented tomorrow for consultation



5 Year Report to Congress

- Final report is with ASA(CW) prior to submittal to Congress
- Report provides snapshot of accomplishments over first 5 years of CERP implementation and outlook for next 5 years
- Updated Cost for Program - \$10.876 Billion
 - Projects \$9,881 Million
 - AA&M \$ 496 Million
 - Program Coordination \$ 500 Million

Other Ongoing Efforts

- Independent Scientific Review Panel – first report anticipated this summer.
- Draft System Operating Manual posted for review. Compilation of existing Water Control Plans. Future efforts will include revisions to reflect new components as they come on line as well as system wide modifications to achieve more natural flow regimes
- Comprehensive Water Quality Feasibility Study – Working with State DEP to finalize agreement for study.
- Special Report on Exotics completed. Master plan initiated

FY 06 Funding

(Millions)

• C-51	\$ 1.4
• C-111	\$ 4.8
• CERP	\$67.7
• Manatee	\$ 2.9
• Kissimmee	\$13.2
• Critical Projects	\$12.0
• Mod Waters	\$60.0*
• Herbert Hoover Dike	\$16.9
Total	\$178.9

Future Funding

- Kissimmee and Mod Waters need \$45-50 million each per year thru 2009-10 to complete on current schedule
- C-111 needs \$15-25 million over next 3 years to complete on current schedule.
- CERP needs \$70-80+ million per year to continue planning, detailed design, and adaptive assessment and monitoring efforts.
- CERP Construction funding dependent on Congress passing a Water Resources Development Act (none since 2000).

Questions?

