

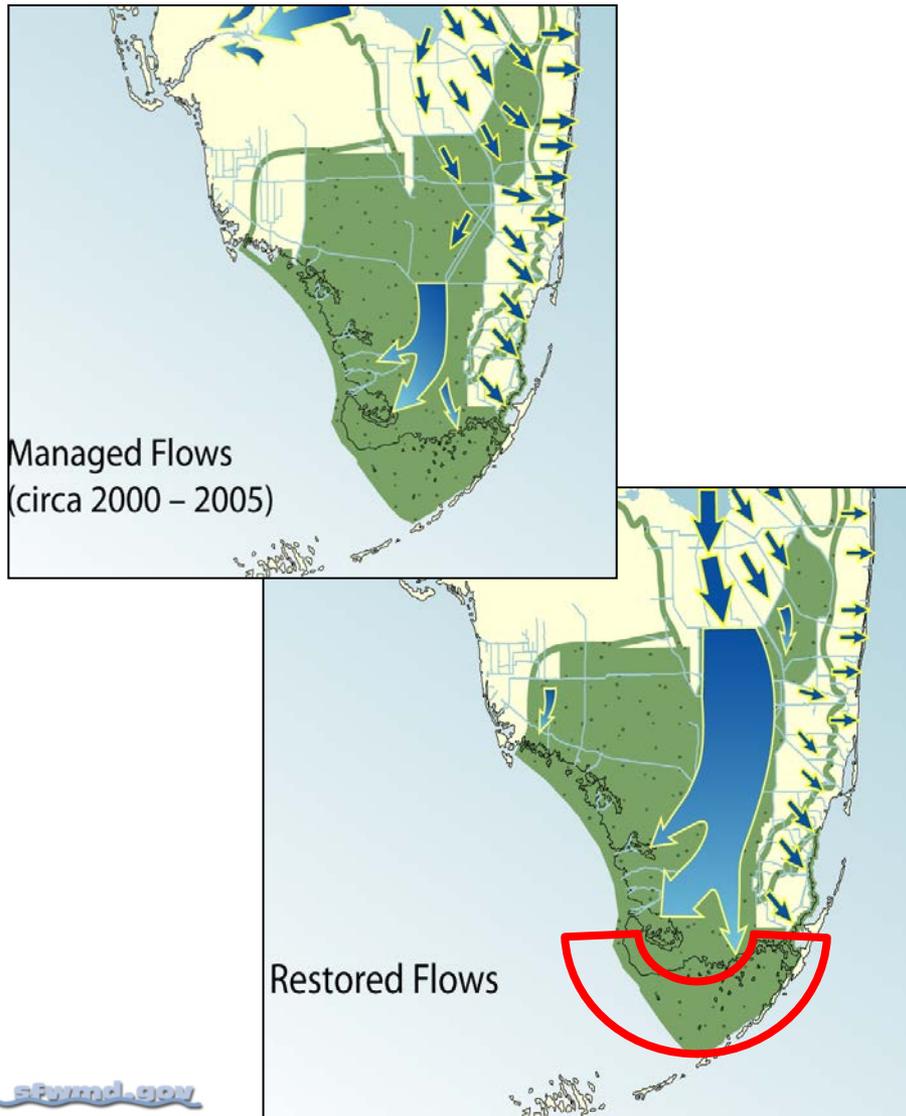


# **Proposed Agreement with Audubon of Florida's Tavernier Science Center for Southern Everglades Monitoring**

Terrie Bates, Water Resources Division

November 14, 2013

# Multiple Restoration Project Components & Operations to Affect Flows to Florida Bay

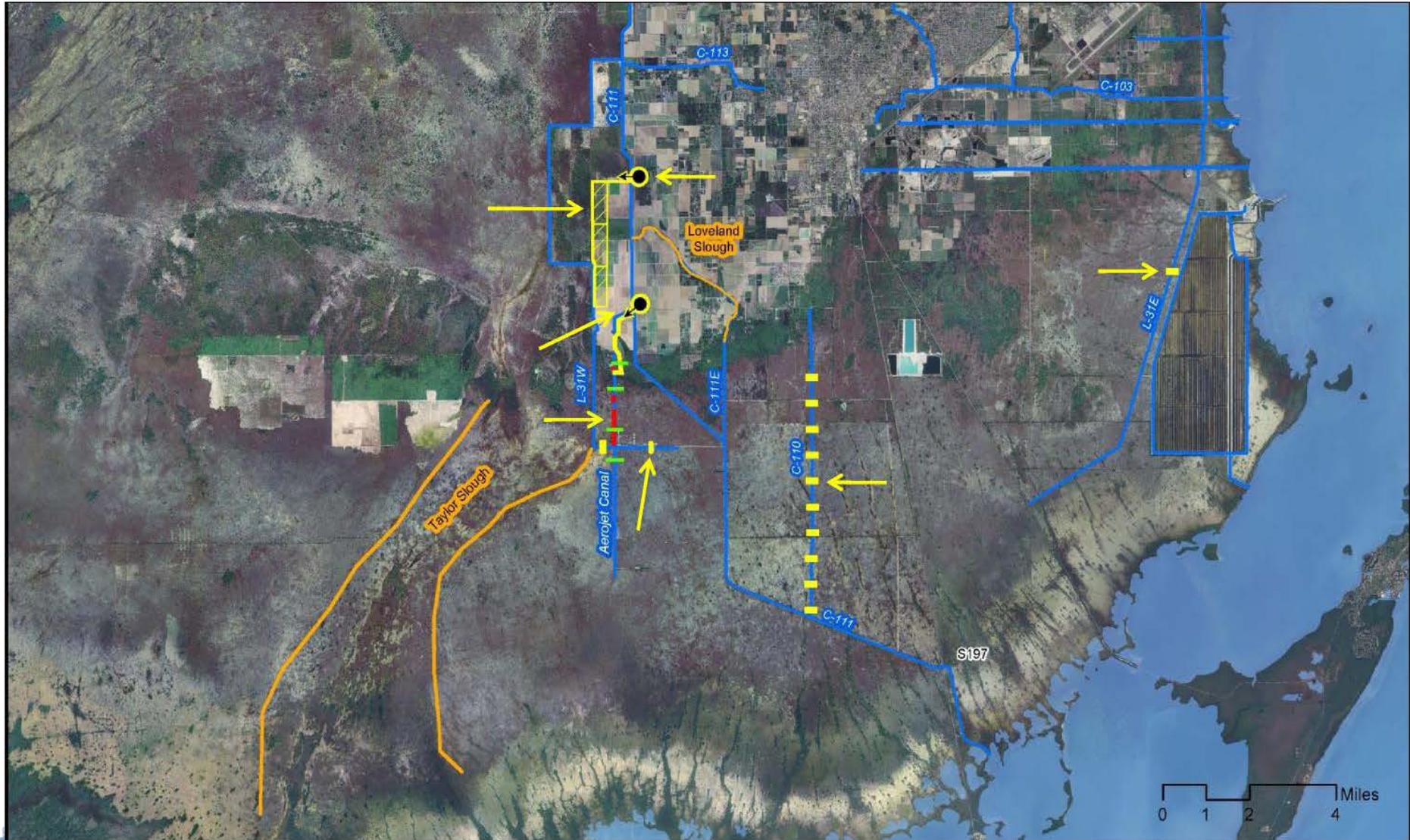


- South Dade Operations
  - ❖ Environmental Restoration Transition Plan
  - ❖ Interim Operations Plan
- L-31 Seepage Barrier
- Tamiami Trail Bridging
- Modified Water Deliveries
- Florida Bay MFL
- C-111 Spreader Canal



# Project Features

## C-111 Spreader Canal





# Monitoring Objectives



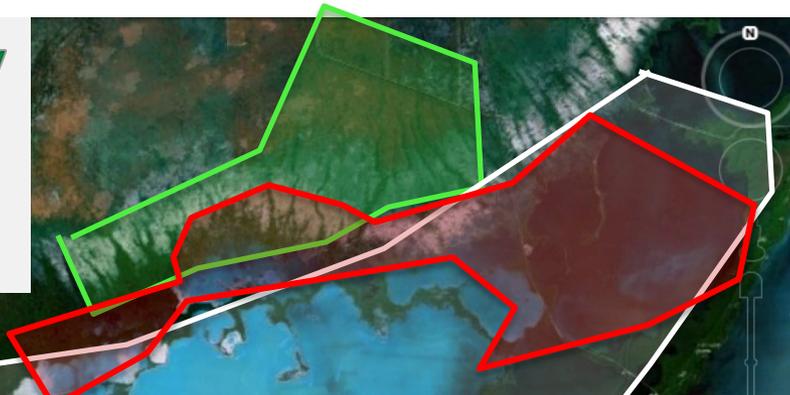
- Assess the post-construction operation of the C-111 Spreader Canal Project and any hydrologic and ecological impacts downstream
- Quantify relationships between salinity and water levels with SAV and prey fish
- Improve & verify hydrologic and biologic models to distinguish changes due to natural variation from water management operations





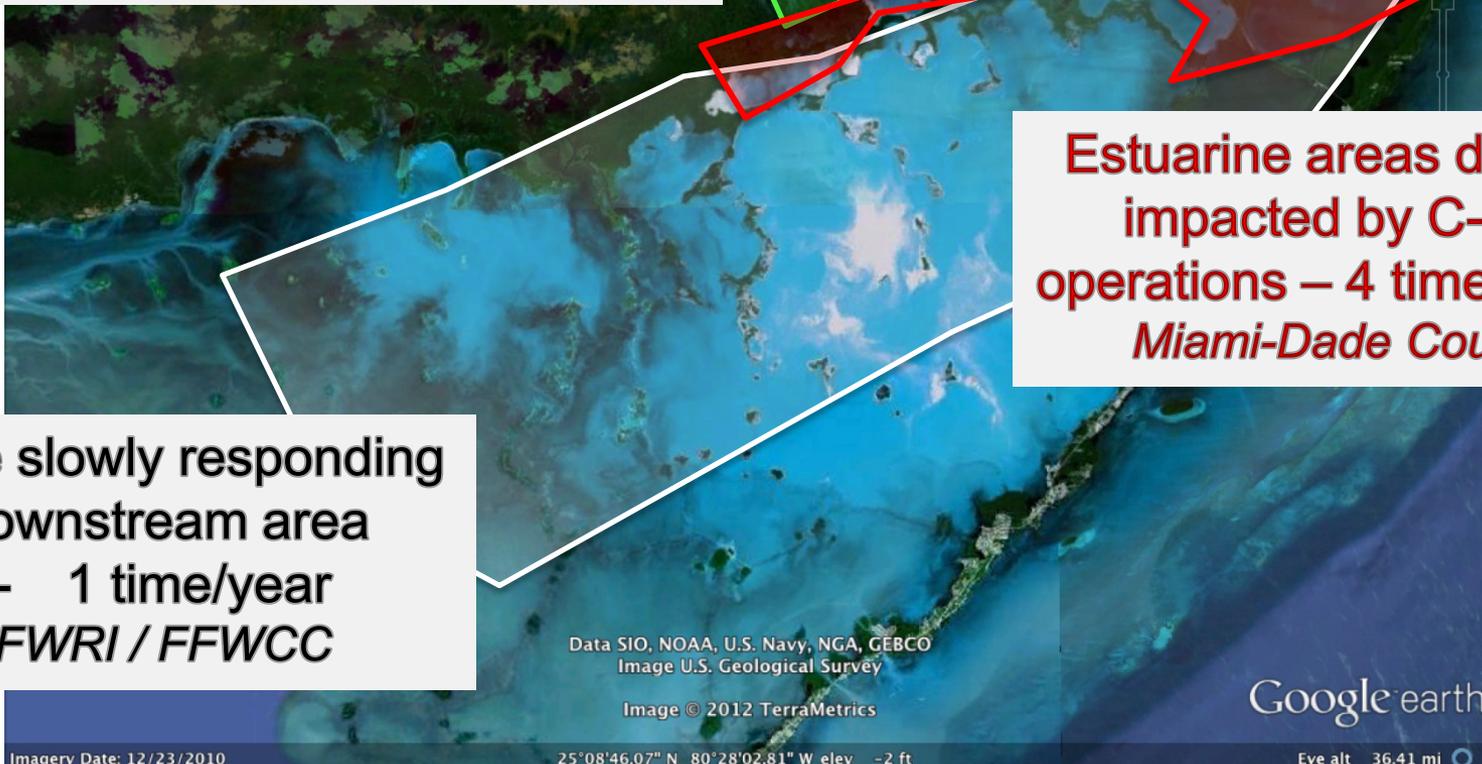
# Florida Bay - Tiered SAV Sampling Coordinated through RECOVER

Mangrove creeks affected by  
C-111 operations  
– 6 times/year  
*Audubon Tavernier Center*



Estuarine areas directly  
impacted by C-111  
operations – 4 times /year  
*Miami-Dade County*

More slowly responding  
downstream area  
- 1 time/year  
*FWRI / FFWCC*



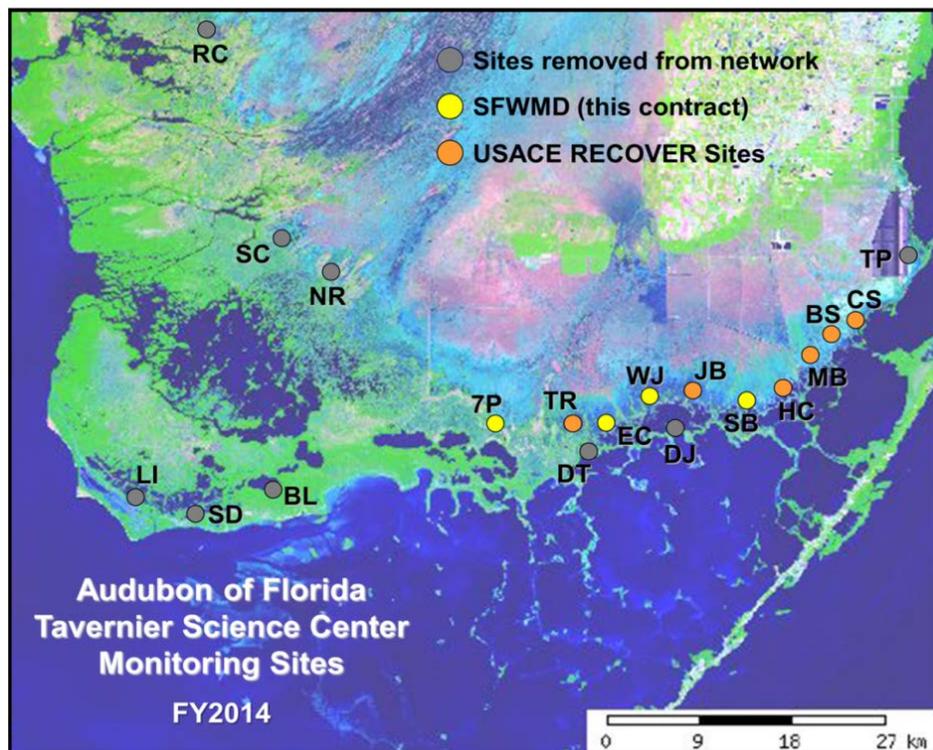
Imagery Date: 12/23/2010

25°08'46.07" N 80°28'02.81" W elev -2 ft

Eye alt 36.41 mi



# Proposed Mangrove Transition Zone Monitoring



- USACE Permit for C-111 Spreader Canal project requires this monitoring
- Audubon has established network, experience and necessary permits from ENP Park for data collection
- Monitoring optimized and leveraged with other CERP / USACE stations
- USACE permit provides for annual evaluation of monitoring and modification as appropriate



## Staff Recommendation

Approval of a three-year agreement with Audubon of Florida's Tavernier Science Center, for hydrology, aquatic vegetation, and prey-base fauna monitoring in the Southern Everglades mangrove communities and approving a sole source as an exception to the general standards of competition in an amount not to exceed \$390,000, of which \$130,000 is budgeted, and the remainder is subject to Governing Board approval of the FY15 and FY16 budgets (Contract #4600002916).