

# South Dade Investigation

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South Florida Water Management District

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# OBJECTIVES

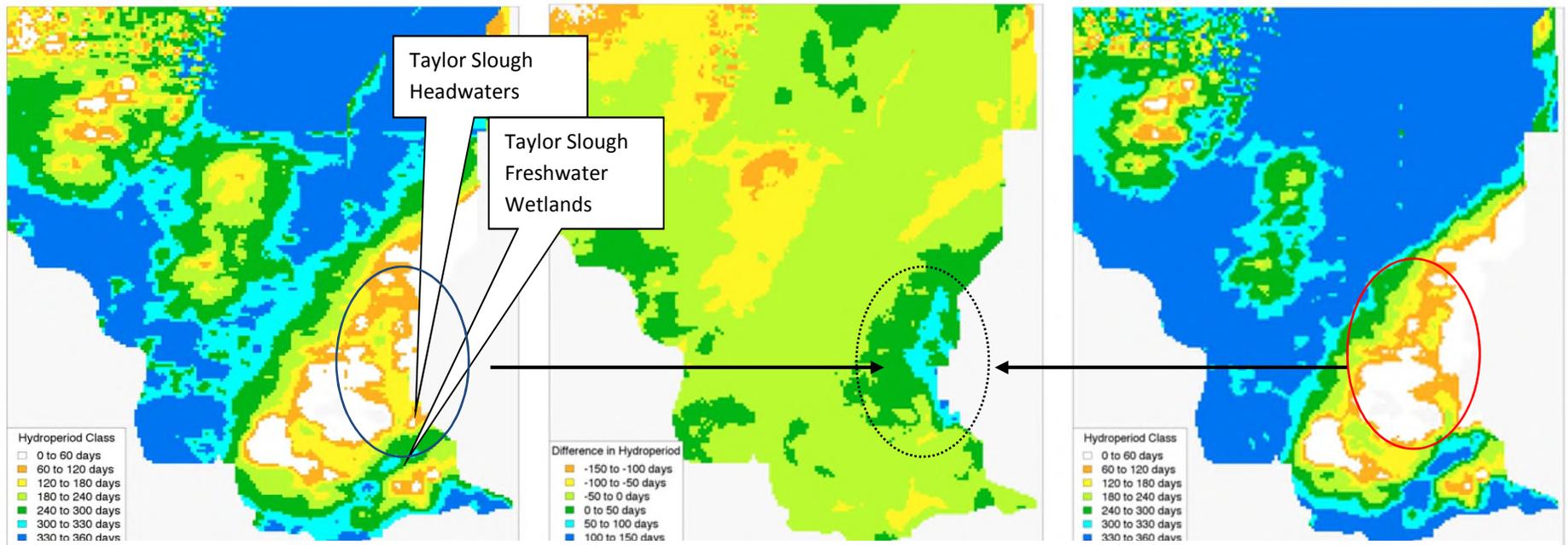


# Thank You! We've heard from...

- Sept 3<sup>rd</sup> and October 15<sup>th</sup> Workshops
- One-on-one meetings with federal, state and local agencies, stakeholders
- Direct contact from interested parties
- SFWMD technical staff
- Communication continues at today's workshop



# Hydroperiods Based on Everglades Depth Estimation Network (EDEN)



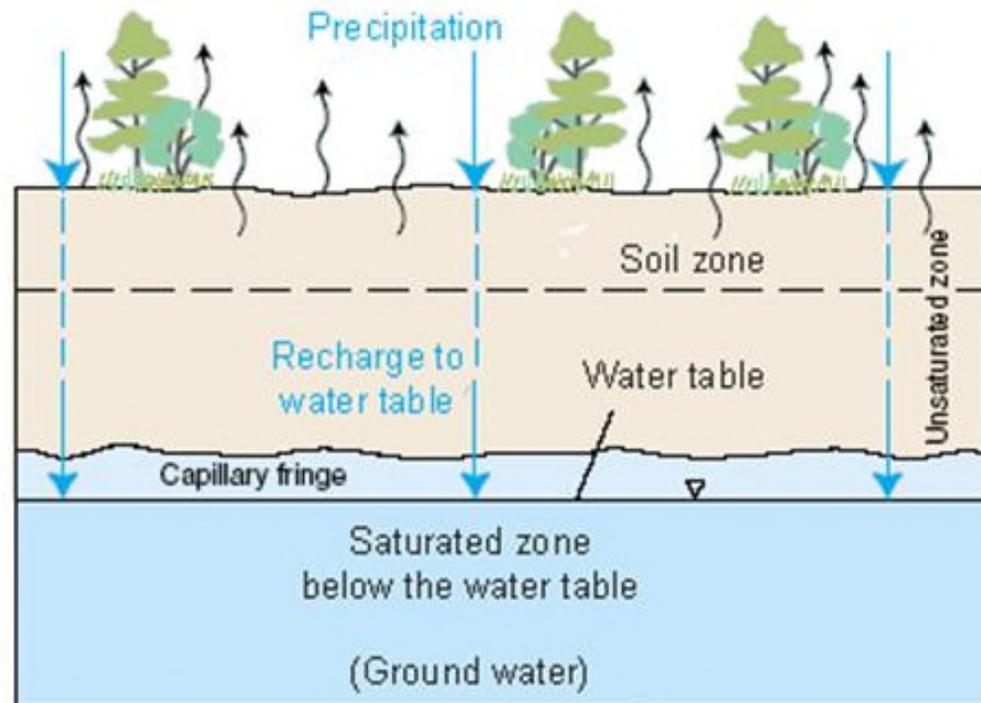
Left panel depicts average annual hydroperiods in ENP for the IOP period (2000–2012). Hydroperiod classes range from 0 to 60 days (white), 60 to 120 days (orange), 120 to 180 days (yellow), 180 to 240 days (light green), 240 to 300 days (light blue), and 330 to 360 days (dark blue).

Right panel depicts average annual hydroperiods in ENP for the pre-IOP period (1992–1999). Center panel depicts the difference between average annual hydroperiods for IOP less pre-IOP period. Hydroperiod difference classes include -150 to -100 days shorter (orange), -100 to -50 days shorter (yellow), -50 to 0 days shorter (light green), 0 to 50 days longer (dark green), 50 to 100 days longer (light blue), 100 to 150 days longer (dark blue).

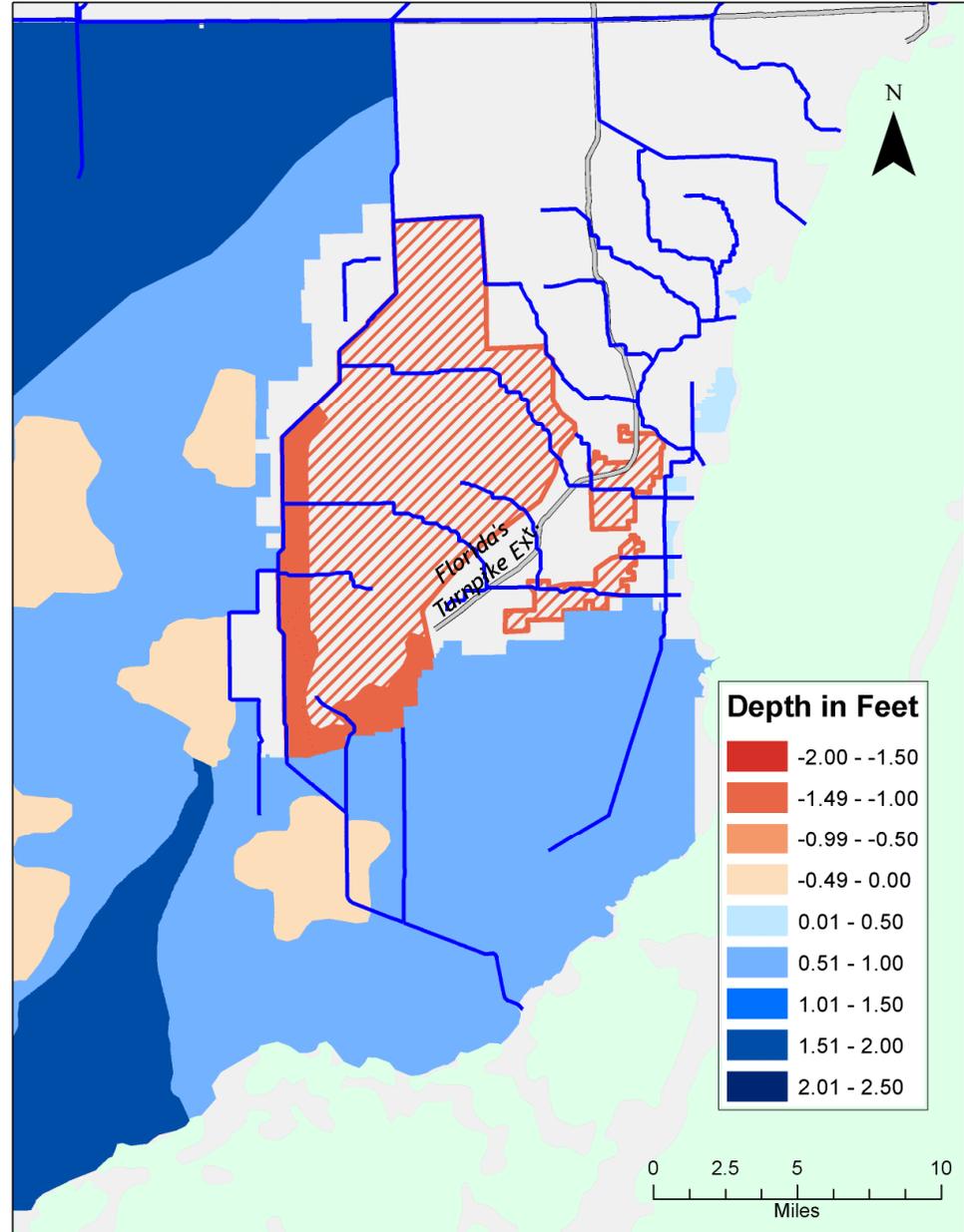
The circled area in each figure represents the same area of interest that indicates increased hydroperiods between the two time periods.

# What is Important to Grow Crops?

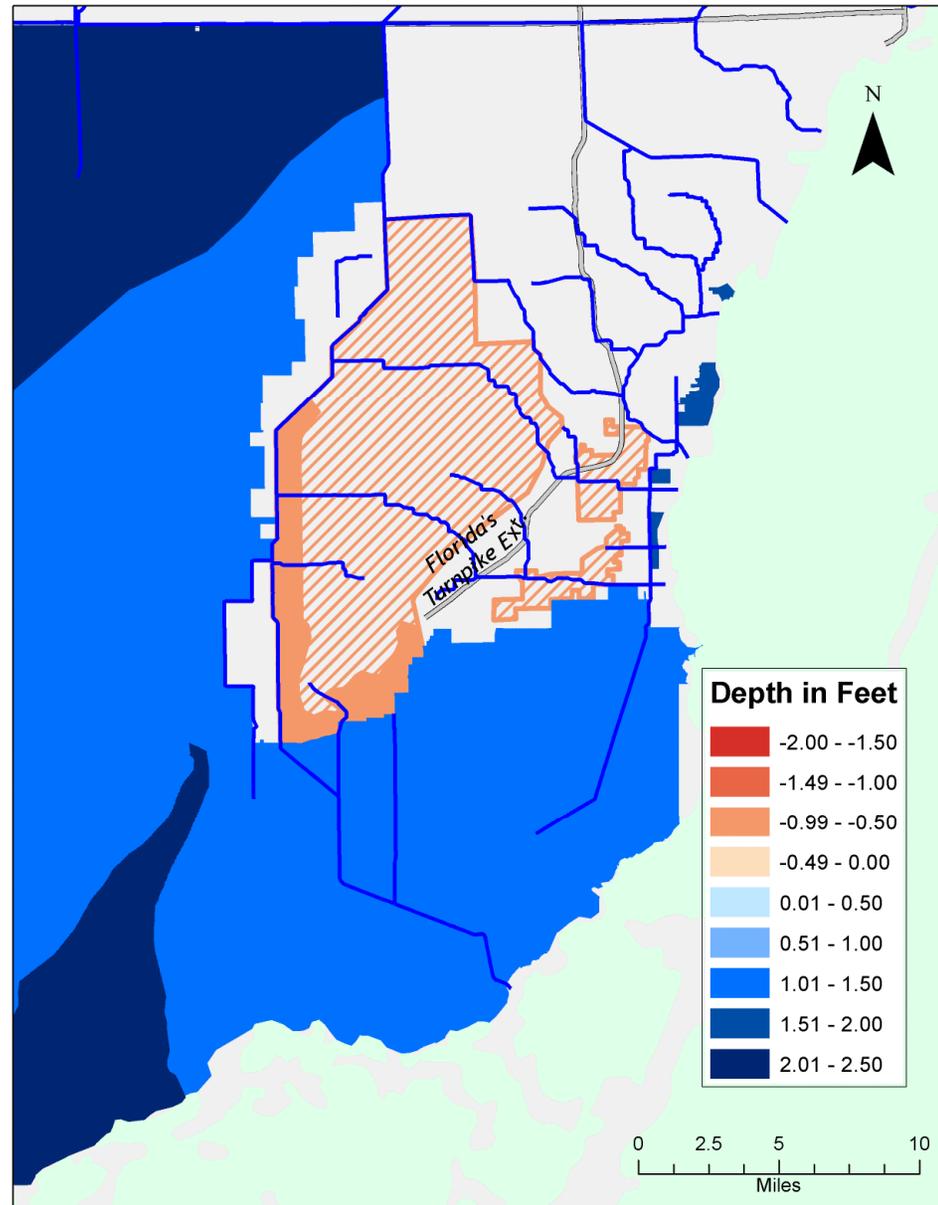
Rainfall, micro-topography, soil water content, infiltration, capillary movement and root zone depth are important factors



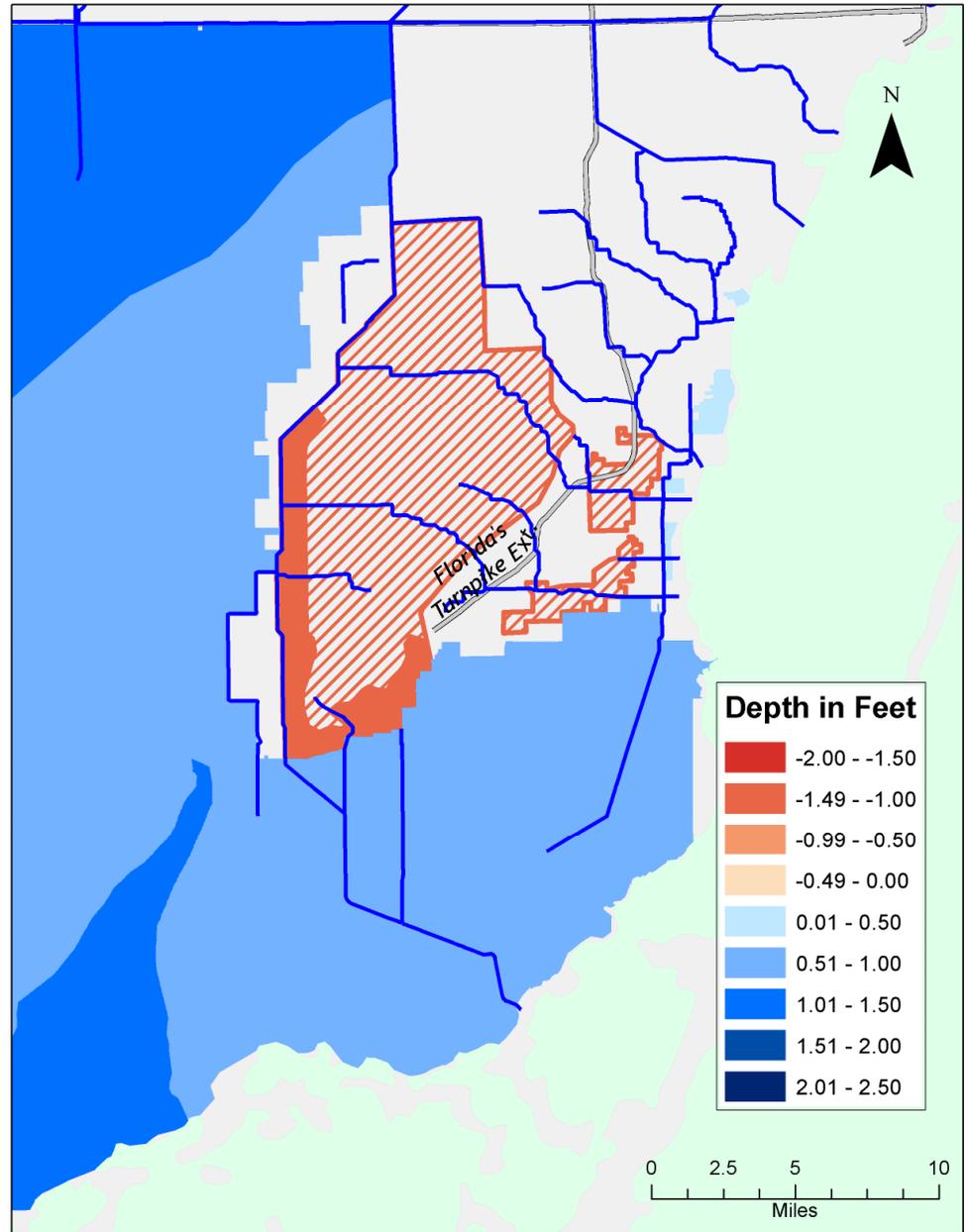
# Early Wet Season



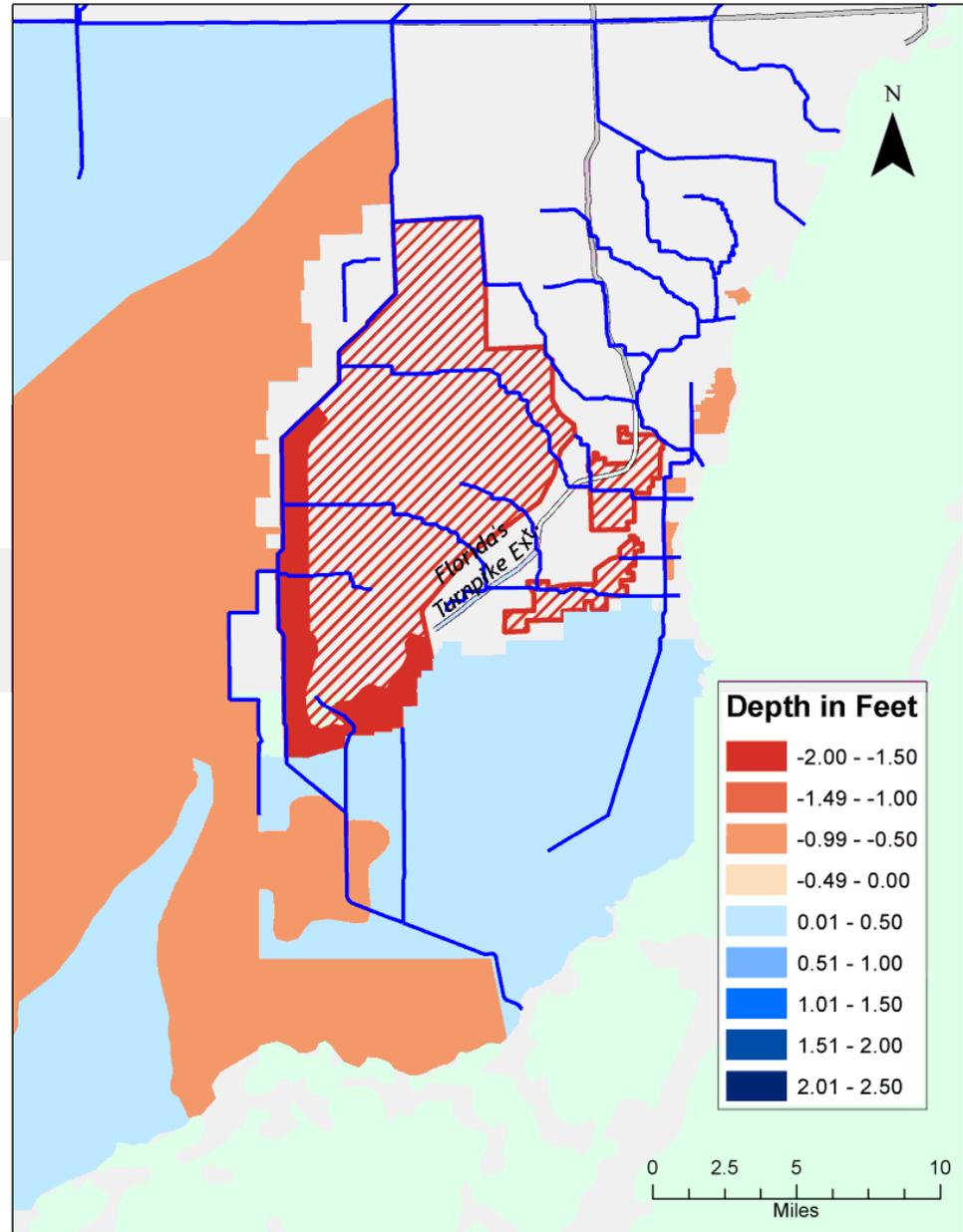
# Late Wet Season

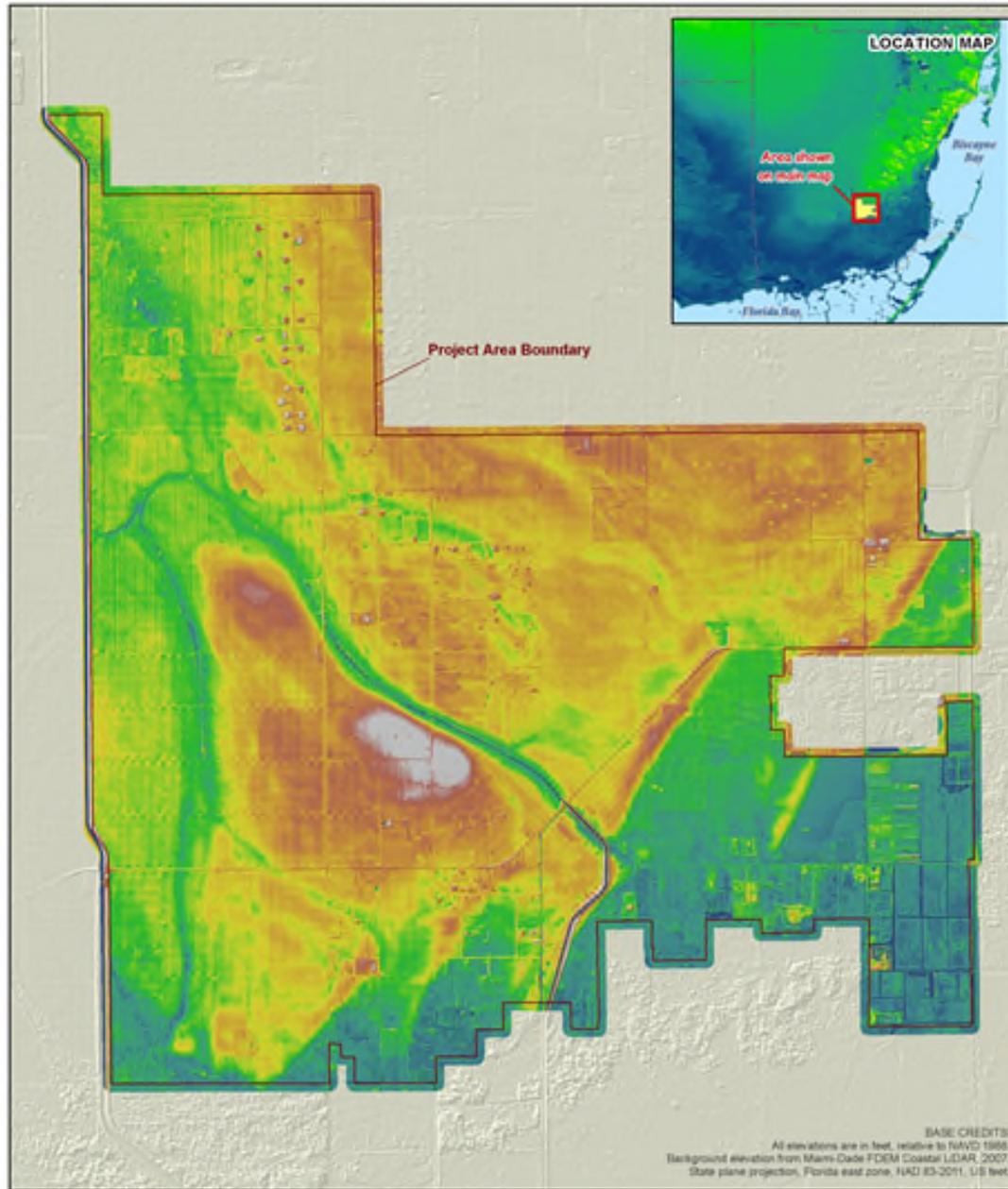


# Early Dry Season

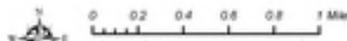


# Late Dry Season





**LIDAR Topography for C-111 Basin**



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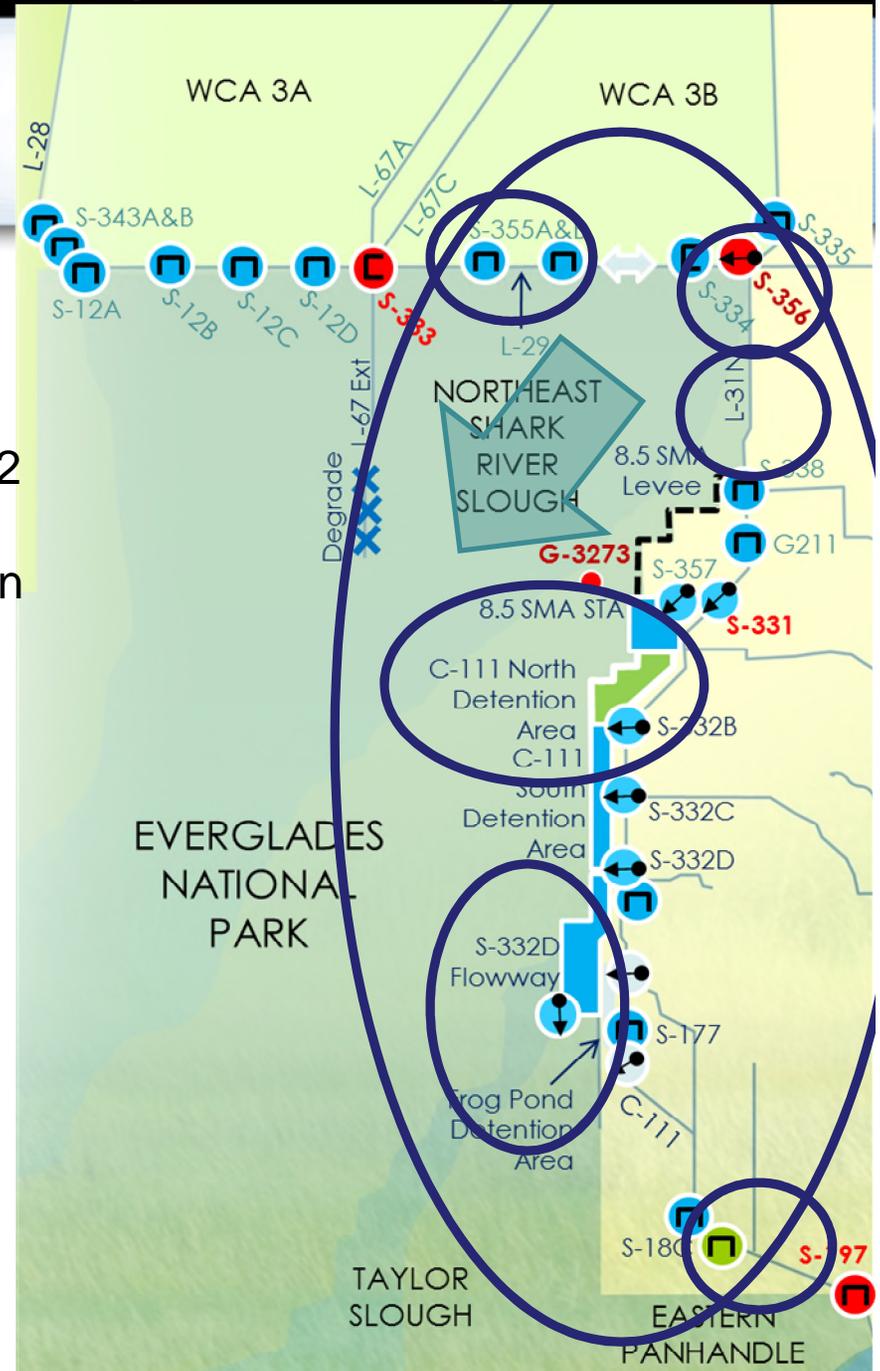


# OPTIONS: ORGANIZATIONAL STRATEGY



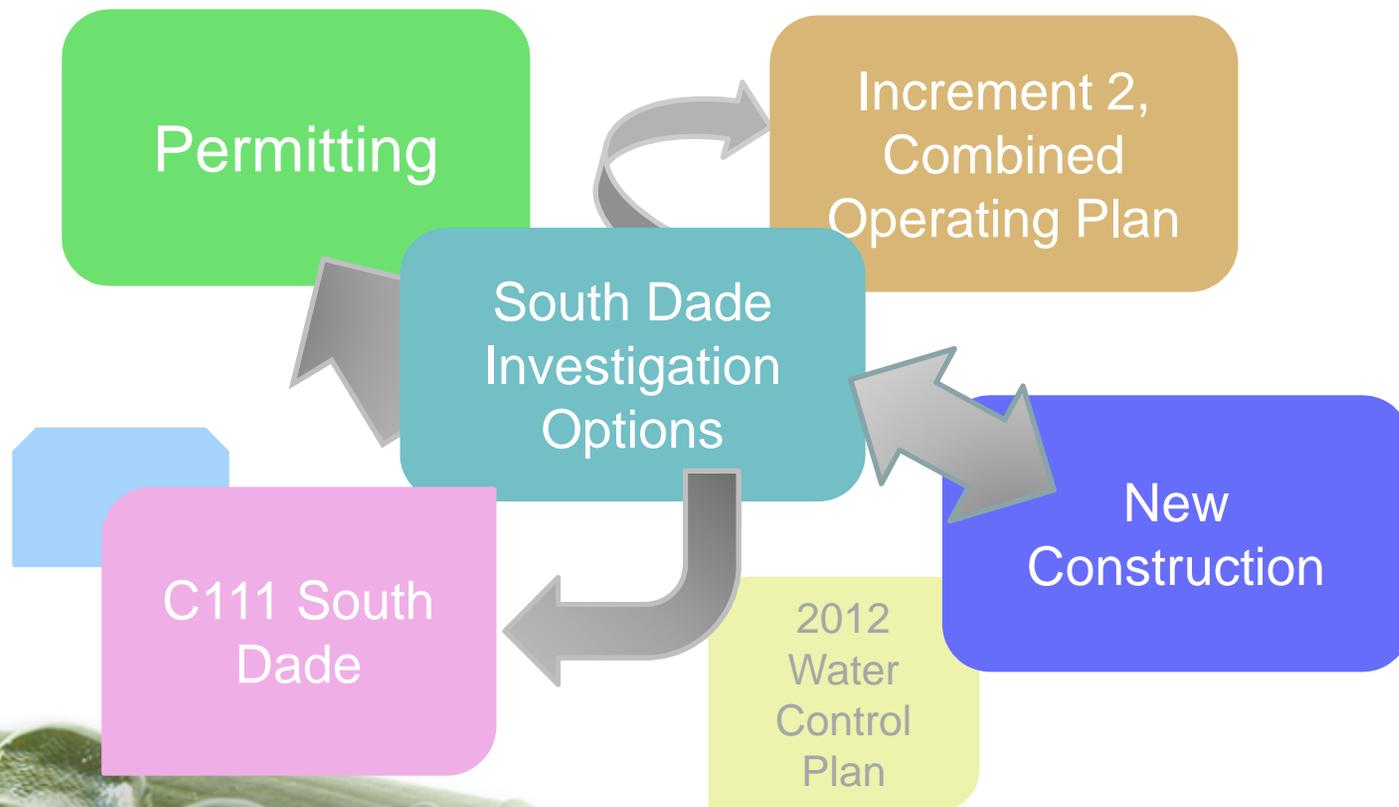
# Future Opportunities

- USACE
  - Within existing Water Control Plan Authority; ERTTP Reinitiation; Increment 2 Field Test; Combined Operating Plan, and C111 South Dade Post Authorization Change Report.
- DOI
  - Tamiami Trail Next Steps, Modified Water Deliveries
- CERP
  - Central Everglades Planning Project
- FDEP permit review and issuance
- State and Local led efforts



# Organizational Strategy

- Group options to organize ideas
- Look to implementation

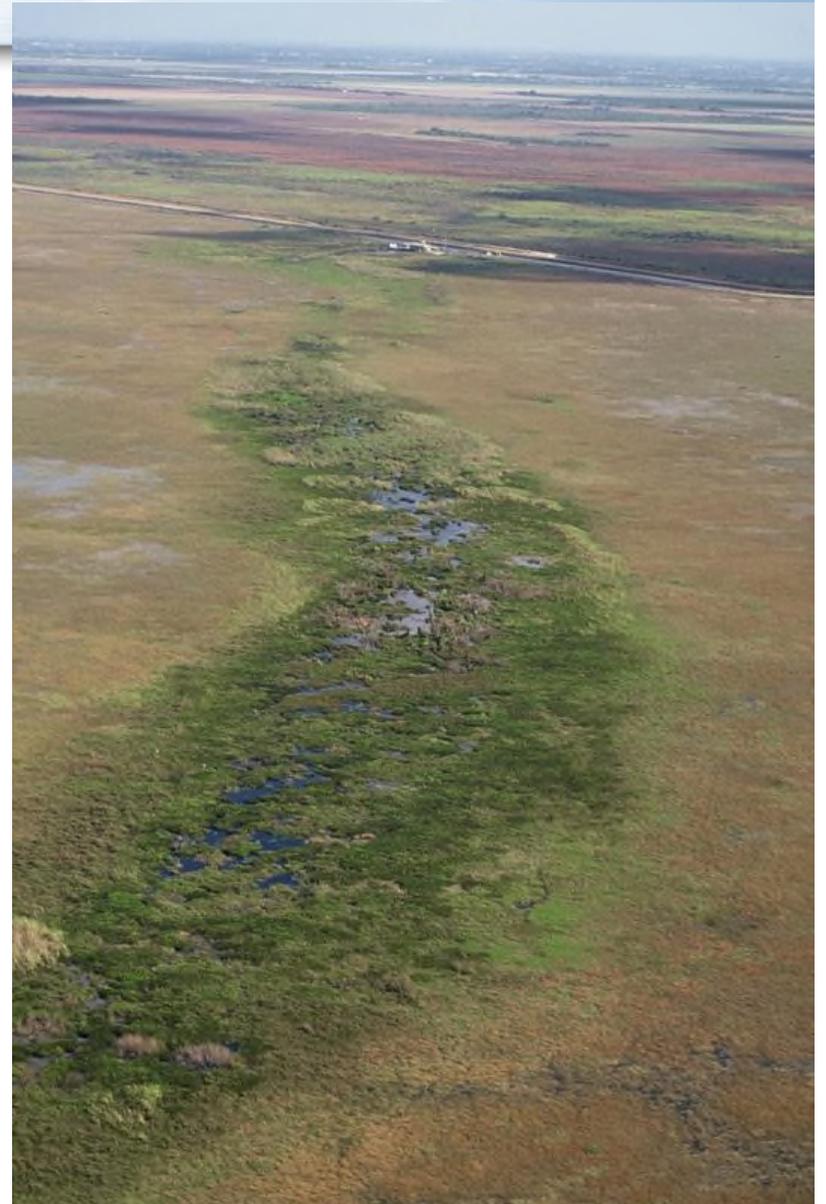


# Organizational Strategy

- Step 1: Easier to implement
- Step 2: Could be incorporated in upcoming projects
- Step 3: Require more significant analysis or authorization

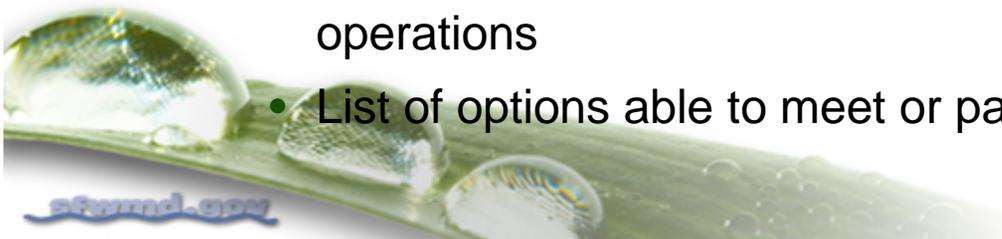


# Questions and Discussion



# South Dade Investigation: Next Steps

- Initial information sharing
  - ✓ Kickoff and brainstorm
  - ✓ Initial In-depth meetings as requested (through September)
  
- Workshops:
  - ✓ October 15, 2015 and December 14, 2015
  - ✓ Review initial model results: Identify trends in system performance and observations
  - Next Workshop February 2, 2016
  - March 2016 (if needed)
  - Refine options available to change system performance and categorize by ability to implement: size and locate options, describe operations
  - List of options able to meet or partially meet desired outcomes



# Questions

