



# Environmental Conditions Update

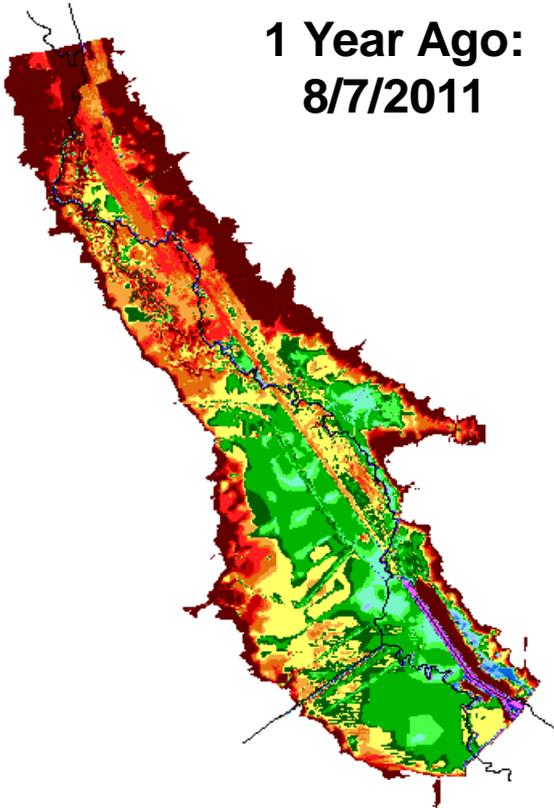
**Governing Board Meeting  
August 9, 2012**

Terrie Bates  
*Division Director*  
Water Resources Division

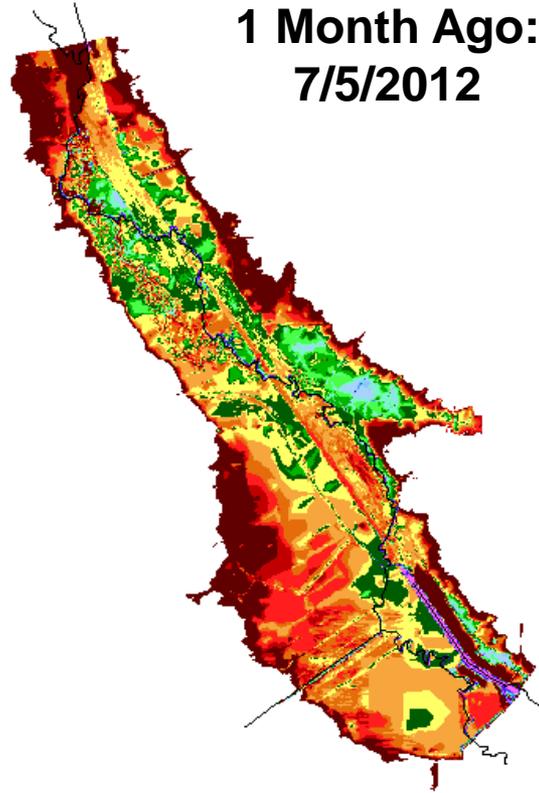
# Kissimmee River (Pool C)

## Monthly Water Depth Maps

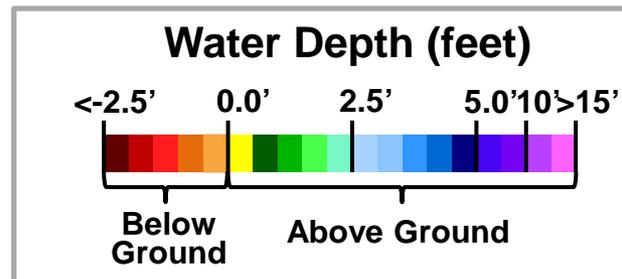
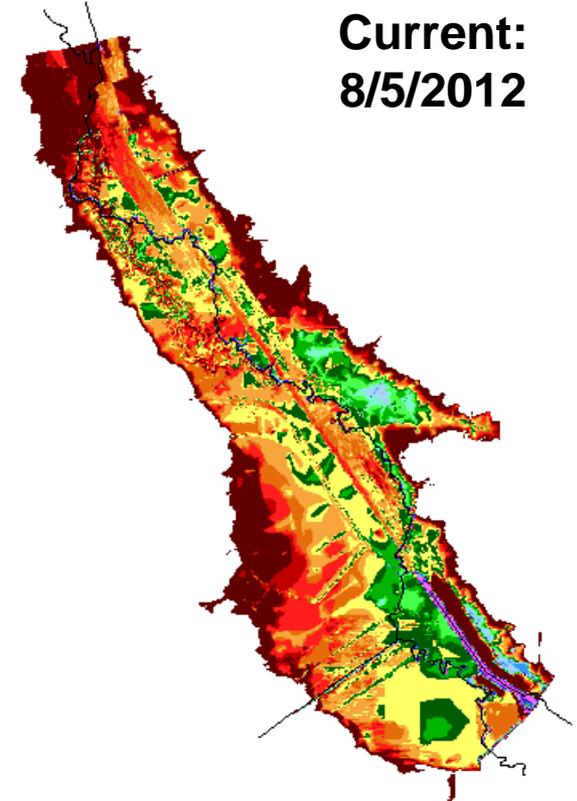
**1 Year Ago:  
8/7/2011**



**1 Month Ago:  
7/5/2012**



**Current:  
8/5/2012**

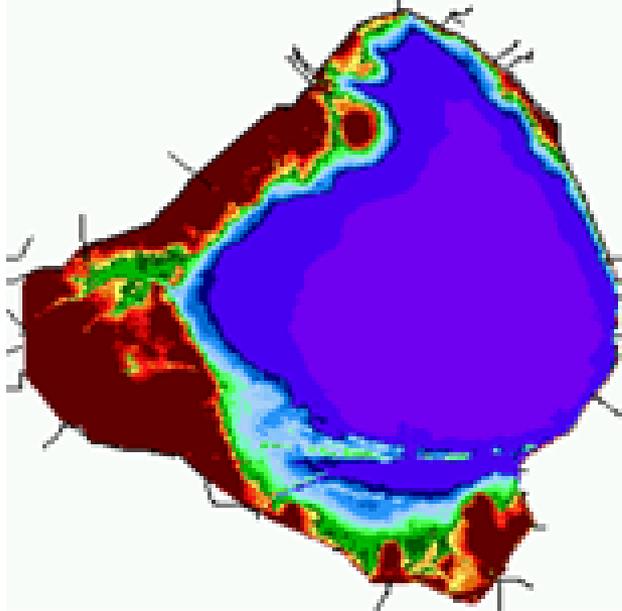


# Lake Okeechobee Water Depth Timeseries Maps

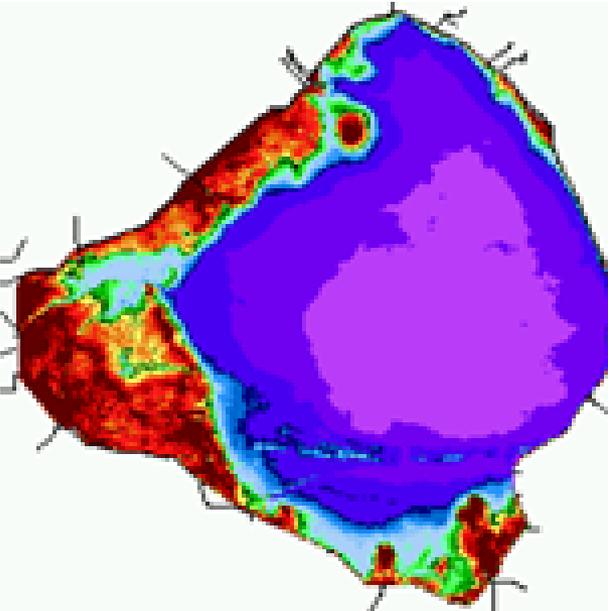
1 Year Ago: 08/07/2011

1 Month Ago: 07/07/2012

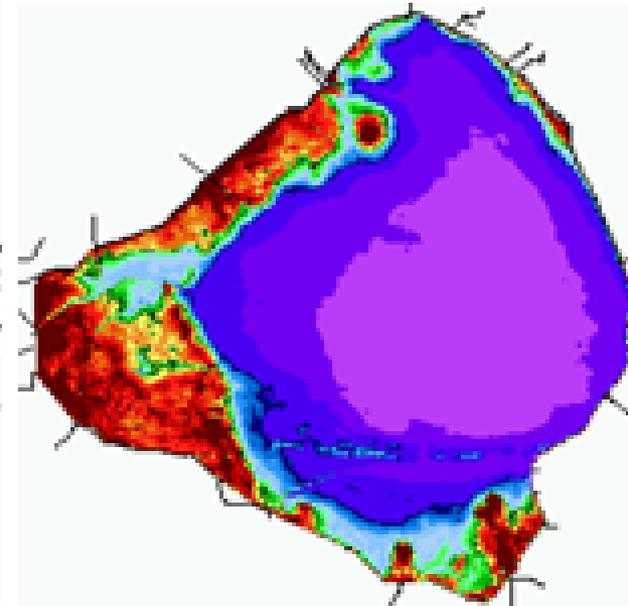
Current: 08/07/2012



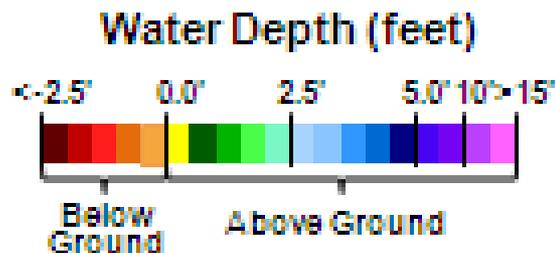
(10.26 ft NGVD29)



(12.03 ft NGVD29)



(12.12 ft NGVD29)



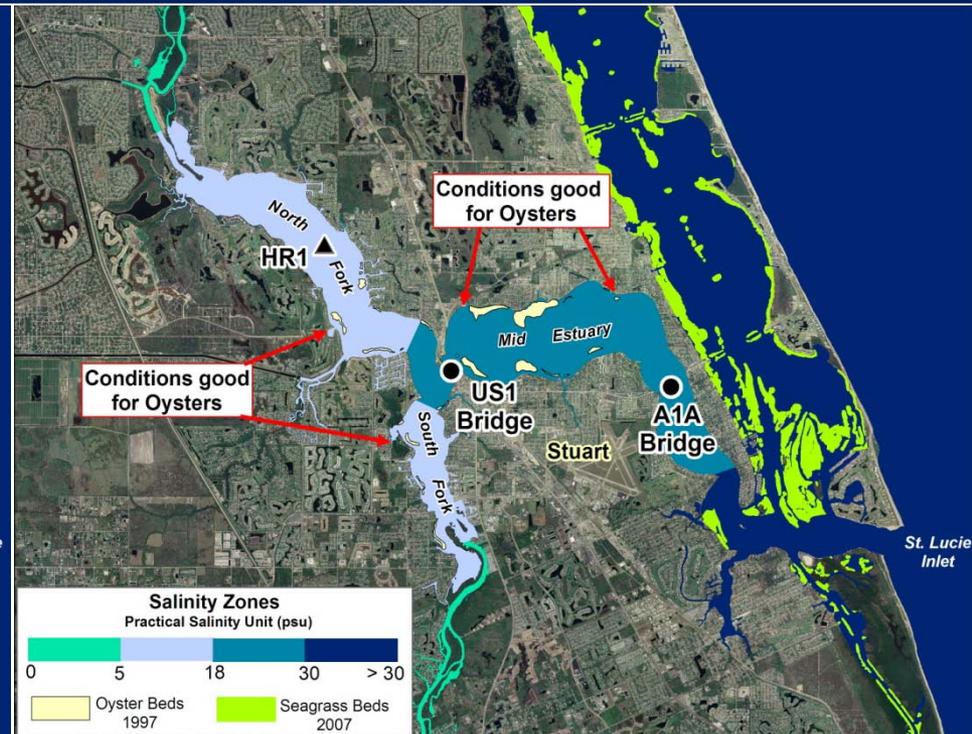
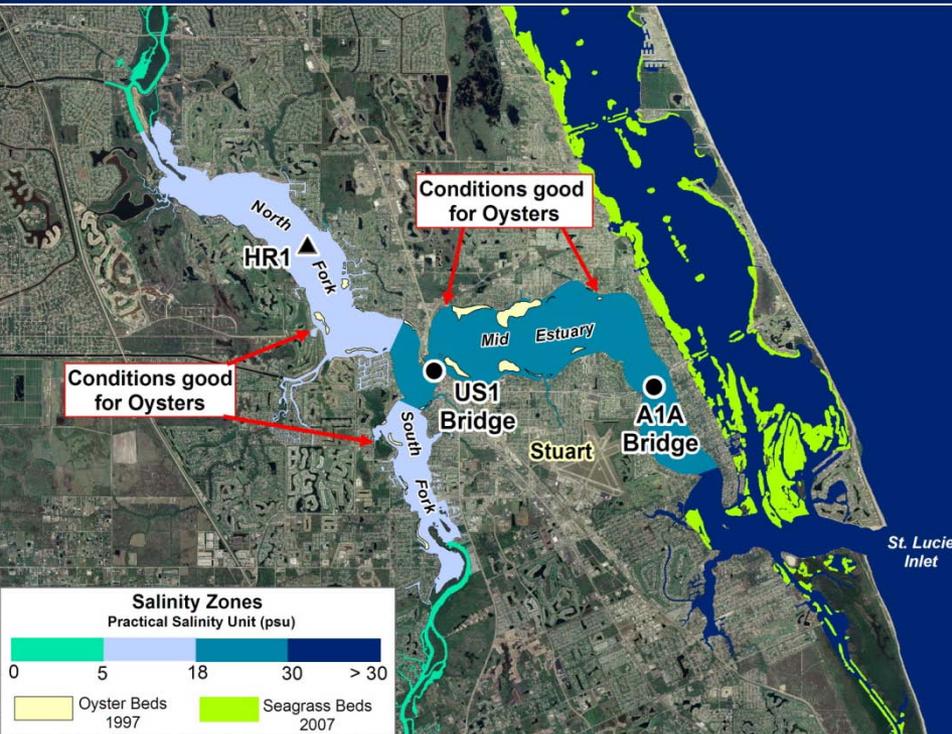
**Current Lake Level  
12.15 ft NGVD 8/9/12**

# St. Lucie Estuary

## Salinity Conditions

July 9, 2012

August 6, 2012



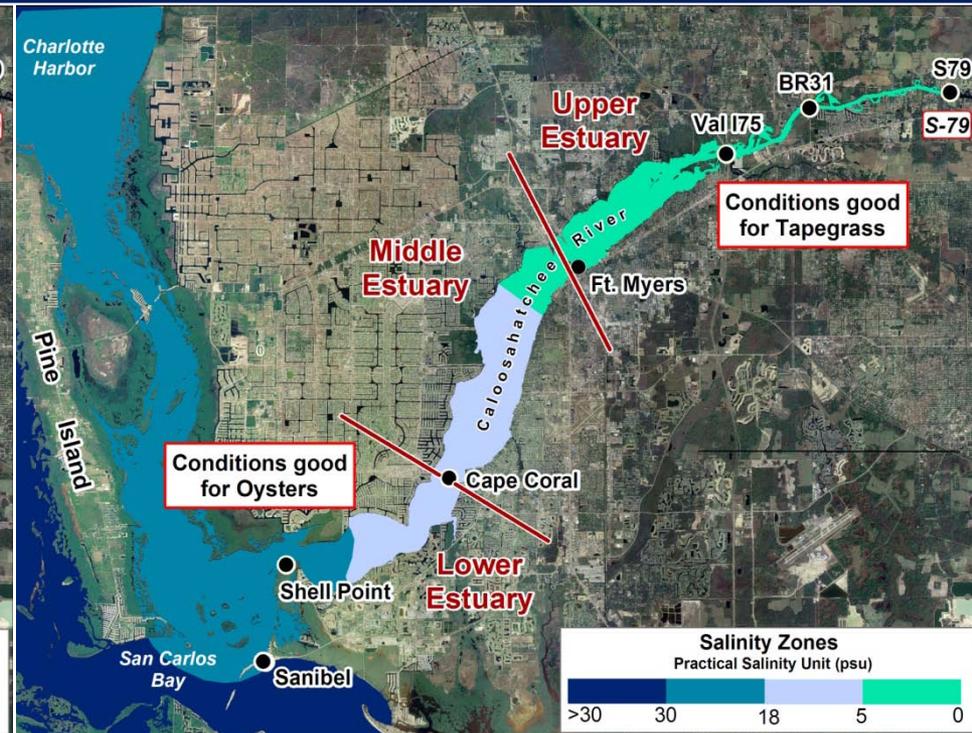
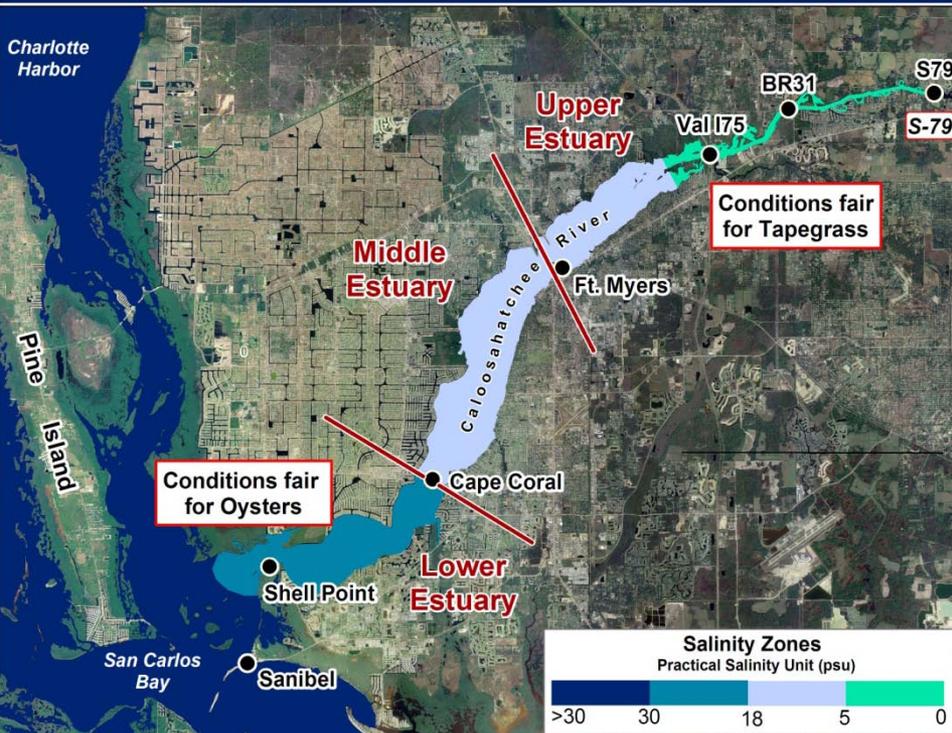
NOTE: Good Range for Oysters: 10 – 30

# Caloosahatchee Estuary

## Salinity Conditions

July 9, 2012

August 6, 2012

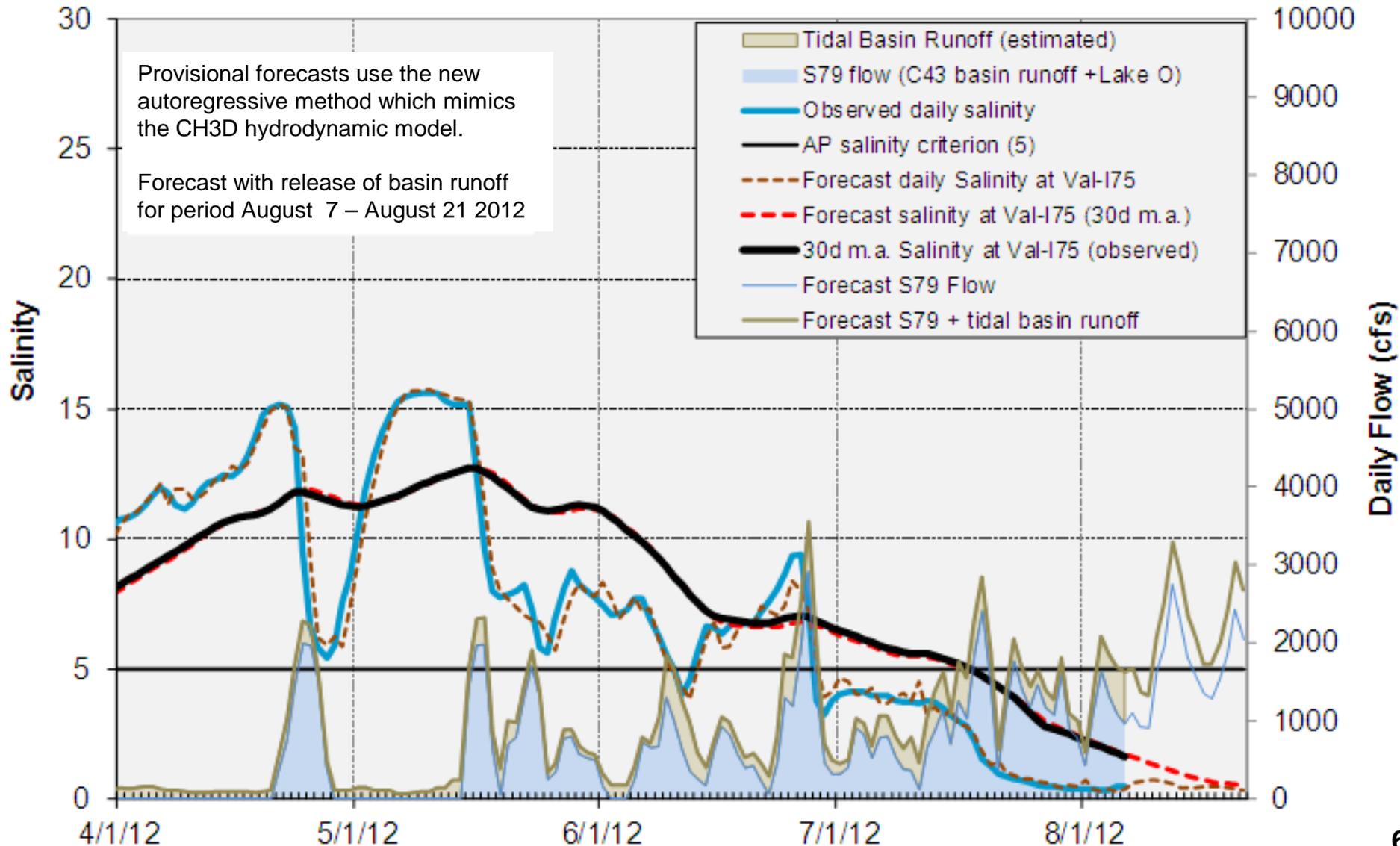


NOTE: Good Range for Oysters: 10 – 30

Optimal Range for Tape Grass: 0 – 5

# Caloosahatchee Estuary Flows and Salinity Observed and Forecast Salinity at Val I-75

**Forecast 1: S-79 = 1700 cfs of C-43 basin runoff & TBR = 520 cfs**

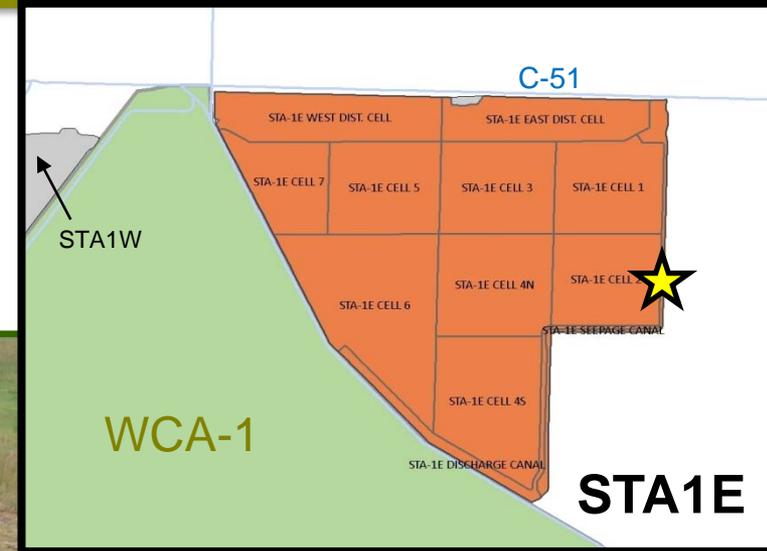


# Stormwater Treatment Areas

## Earthwork in STA-1E

### Berm associated w/completed Army Corps of Engineers PSTA Demonstration Project in Cell 2 partially degraded

- Reduces obstruction to flow
- Allows for full operation of Eastern Flow-way



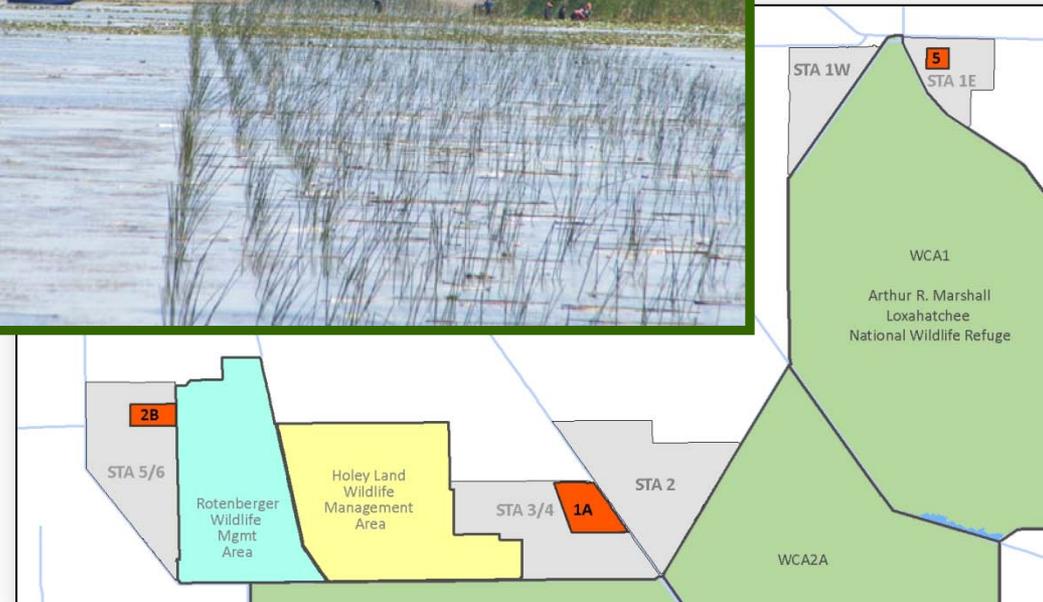
*Partial degradation of berm in STA-1E Cell 2.*

*The truck & back hoe are parked near the section of the berm where a 500' cut was made*

# Stormwater Treatment Areas Vegetation Management Activities

## Completed bulrush planting in STA-1E Cell 5, STA-3/4 Cell 1A, and STA-5 Cell 2B

- Bulrush planted in open water areas or areas devoid of vegetation
  - Reduces hydraulic short-circuiting
  - Provides protective vegetation strips
  - Improves phosphorus removal efficiency



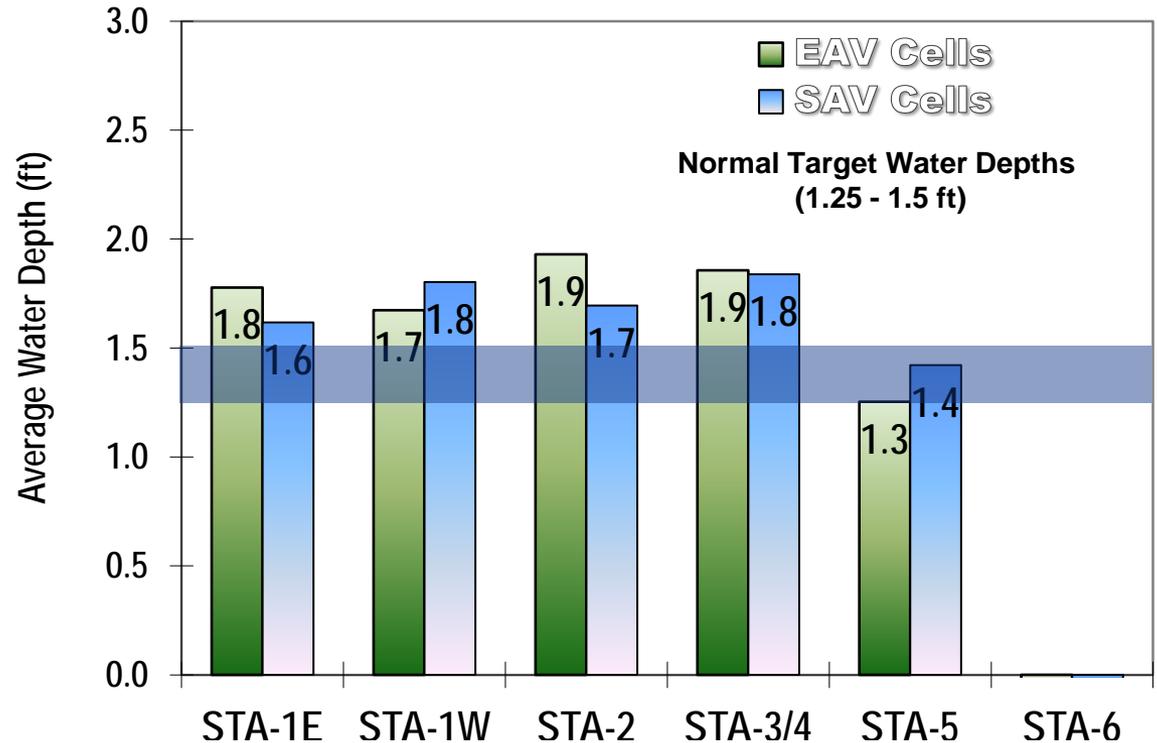
# Stormwater Treatment Areas

## Water Depths

*Except for STA-6:*

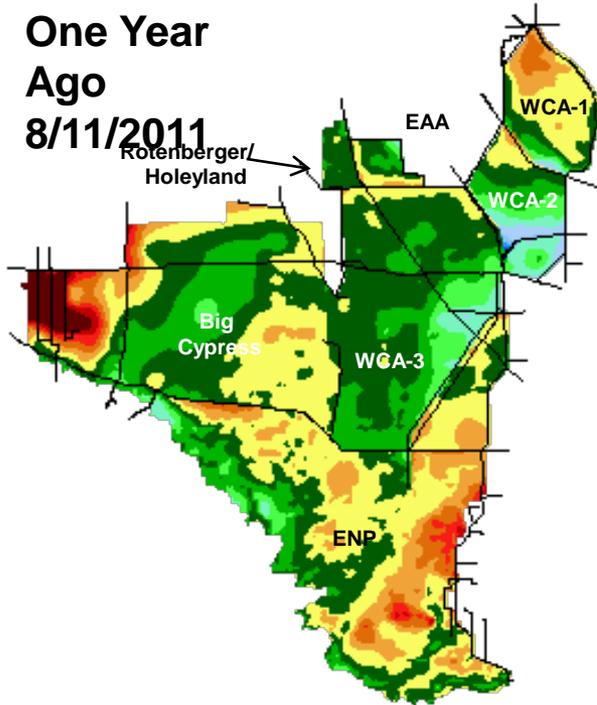
- Water depths are at or above target
- Inflows received over last month

August 6, 2012

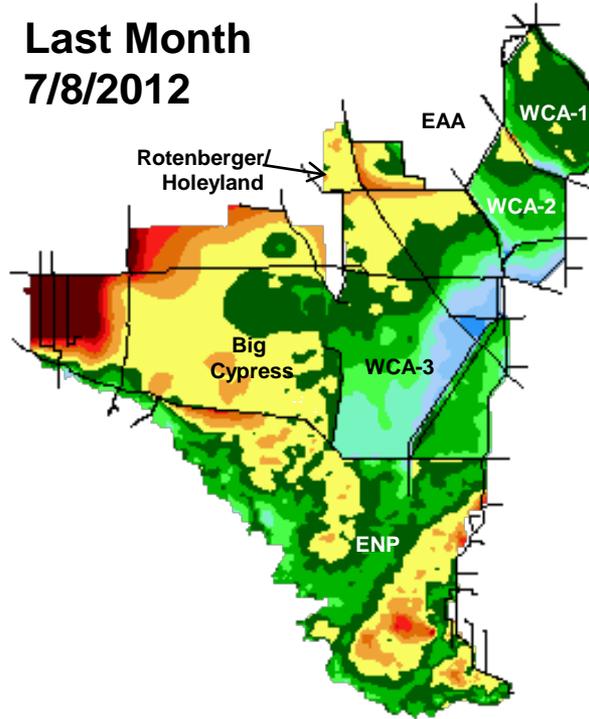


# Greater Everglades Water Depth Monthly Snapshots

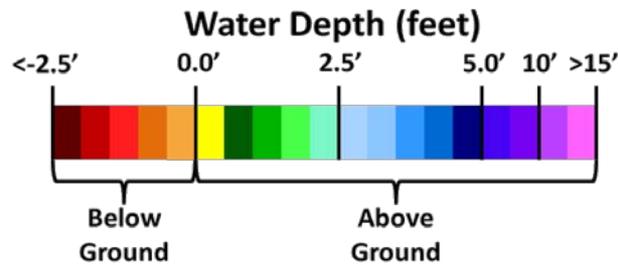
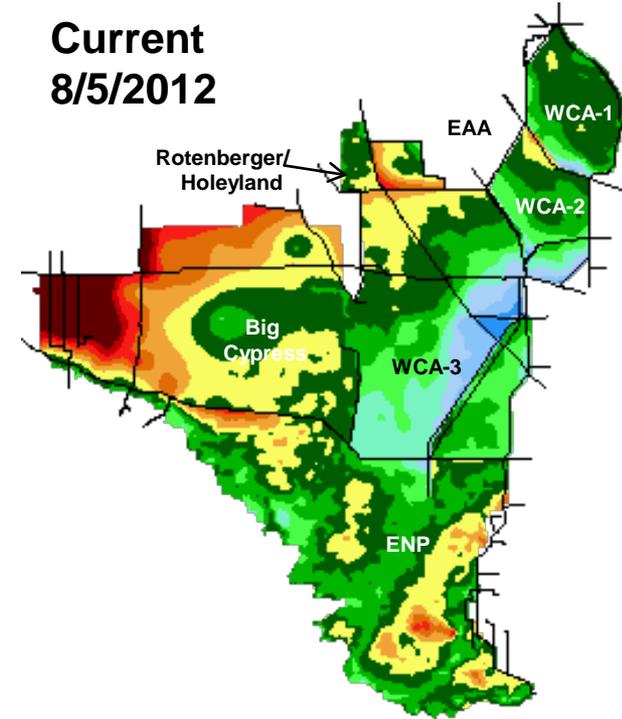
One Year  
Ago  
8/11/2011



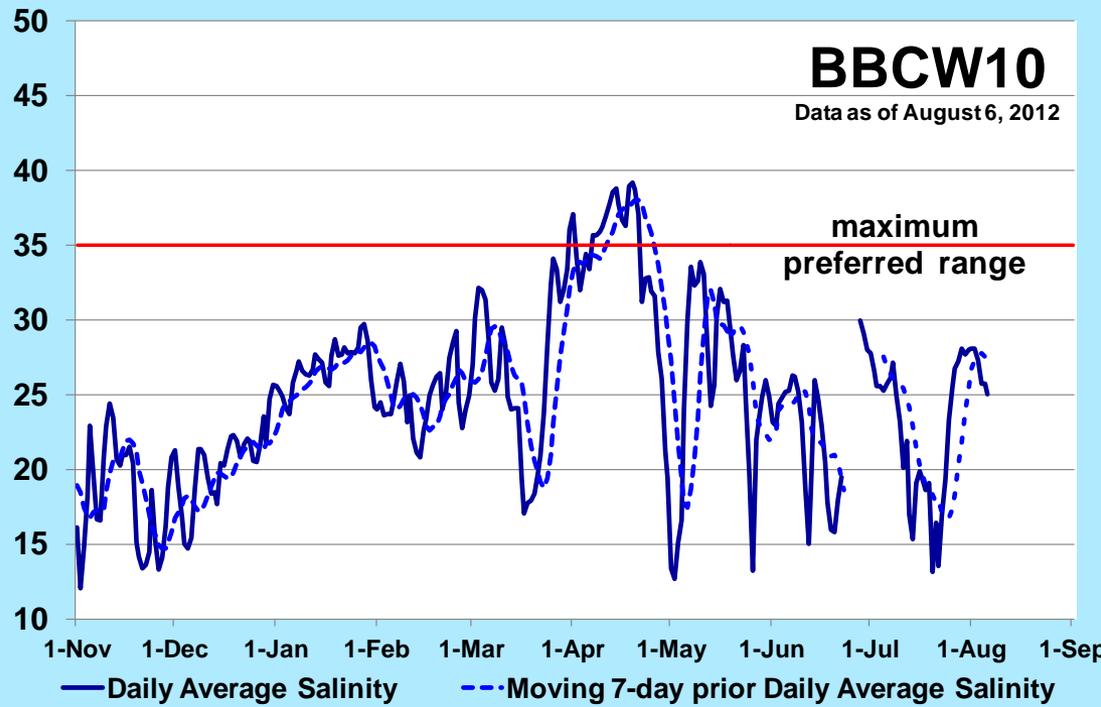
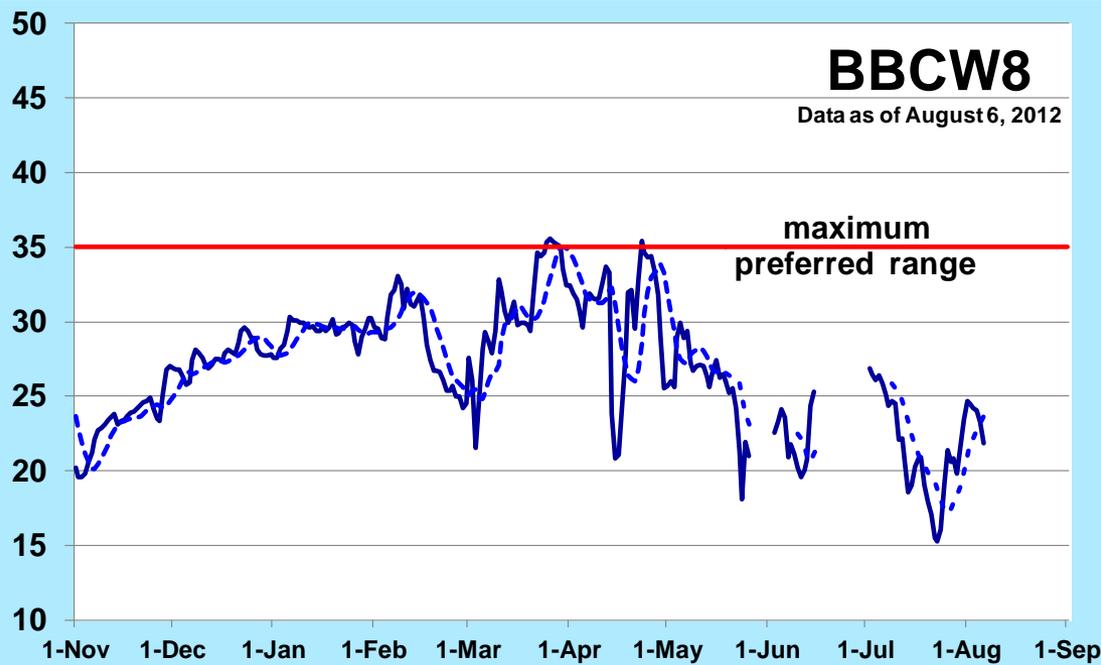
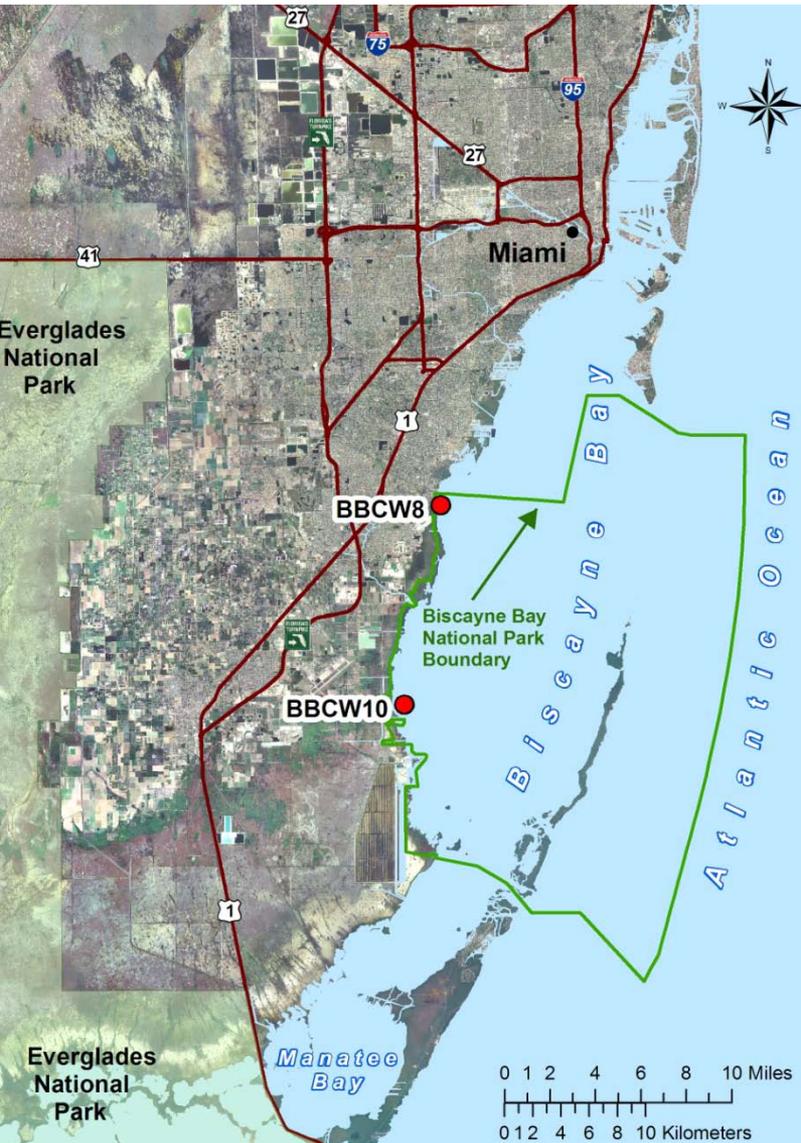
Last Month  
7/8/2012



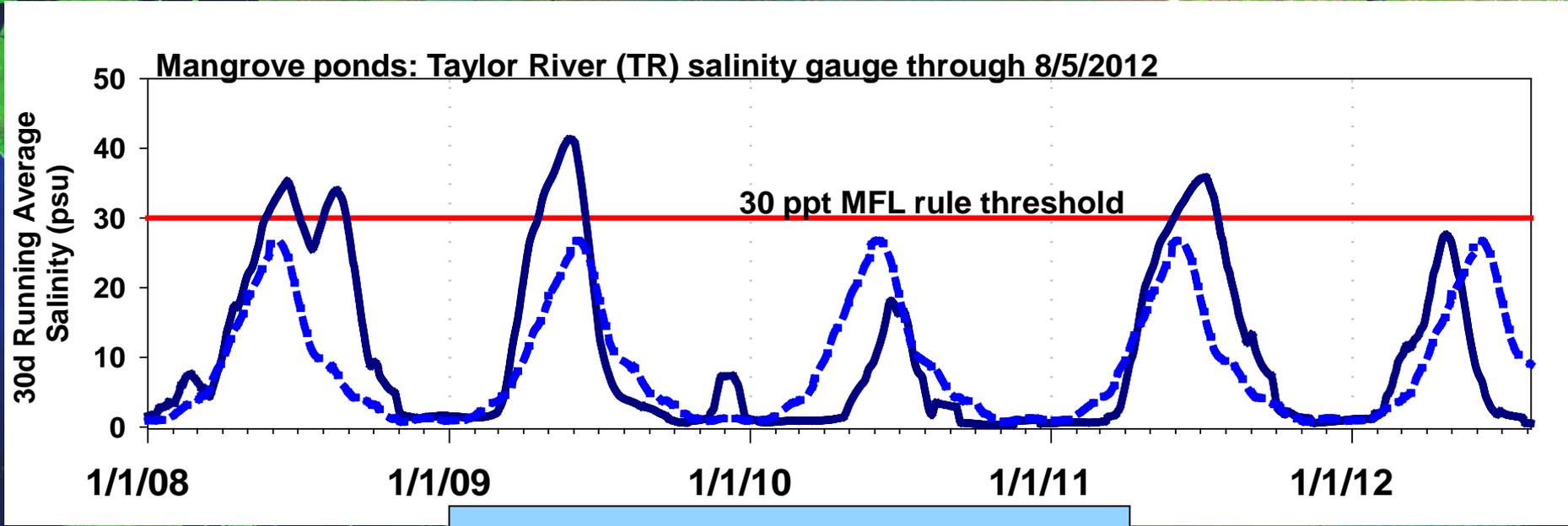
Current  
8/5/2012



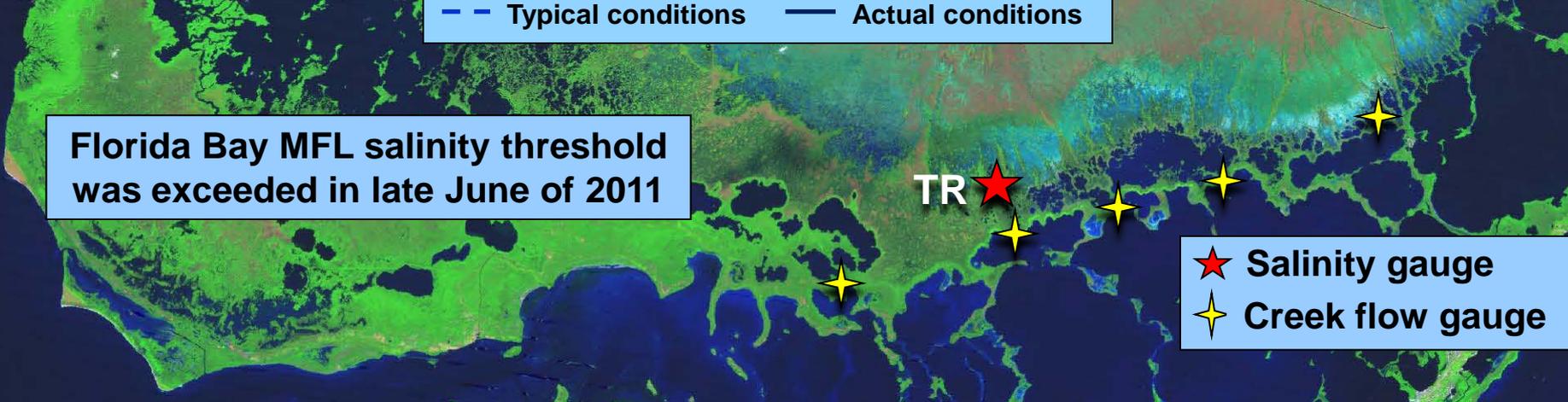
# Biscayne Bay Salinity



# Tracking Salinity in Florida Bay



Florida Bay MFL salinity threshold was exceeded in late June of 2011



# Thank You!

