

**Governing Board Meeting  
June 09, 2011**



# **Ecological Conditions Update**

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Director, Restoration Sciences Department



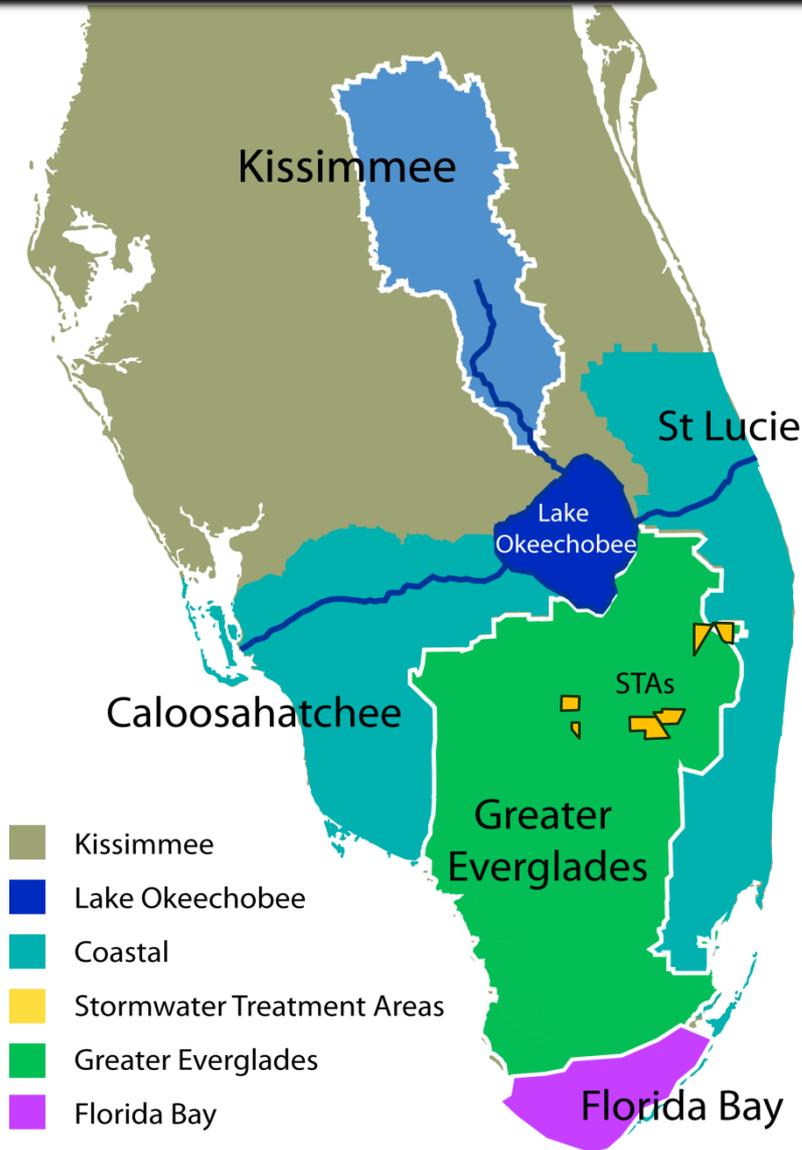
# Snail Kites – *system wide status*

| Area                  | Water Body                    | Total Nests Monitored | Remaining Active<br>(building, incubating, or with nestlings) | Successful | Failed | Unknown |
|-----------------------|-------------------------------|-----------------------|---|------------|--------|---------|
| Upper Kissimmee Basin | <i>East Lake Toho</i>         | 56                    | 27  | 16         | 12     | 1       |
|                       | <i>Lake Toho</i>              | 78                    | 20  | 21         | 37     |         |
|                       | <i>Lake Kissimmee</i>         | 16                    | 2   | 4          | 10     |         |
|                       | <i>Lake Hatchineha</i>        | 5                     | 1   |            | 4      |         |
|                       | <i>Lake Jackson</i>           | 2                     | 1   |            | 1      |         |
| Lake Istokpoga        | <i>Lake Istokpoga</i>         | 4                     | 2   | 2          | 0      |         |
| Lake Okeechobee       | <i>Lake Okeechobee</i>        | 43                    | 1   | 18         | 24     |         |
| Everglades            | <i>Everglades NP and WCAs</i> | 31                    | 0   | 7          | 24     |         |

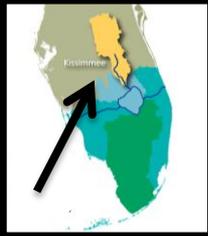
Data through May 26, 2011



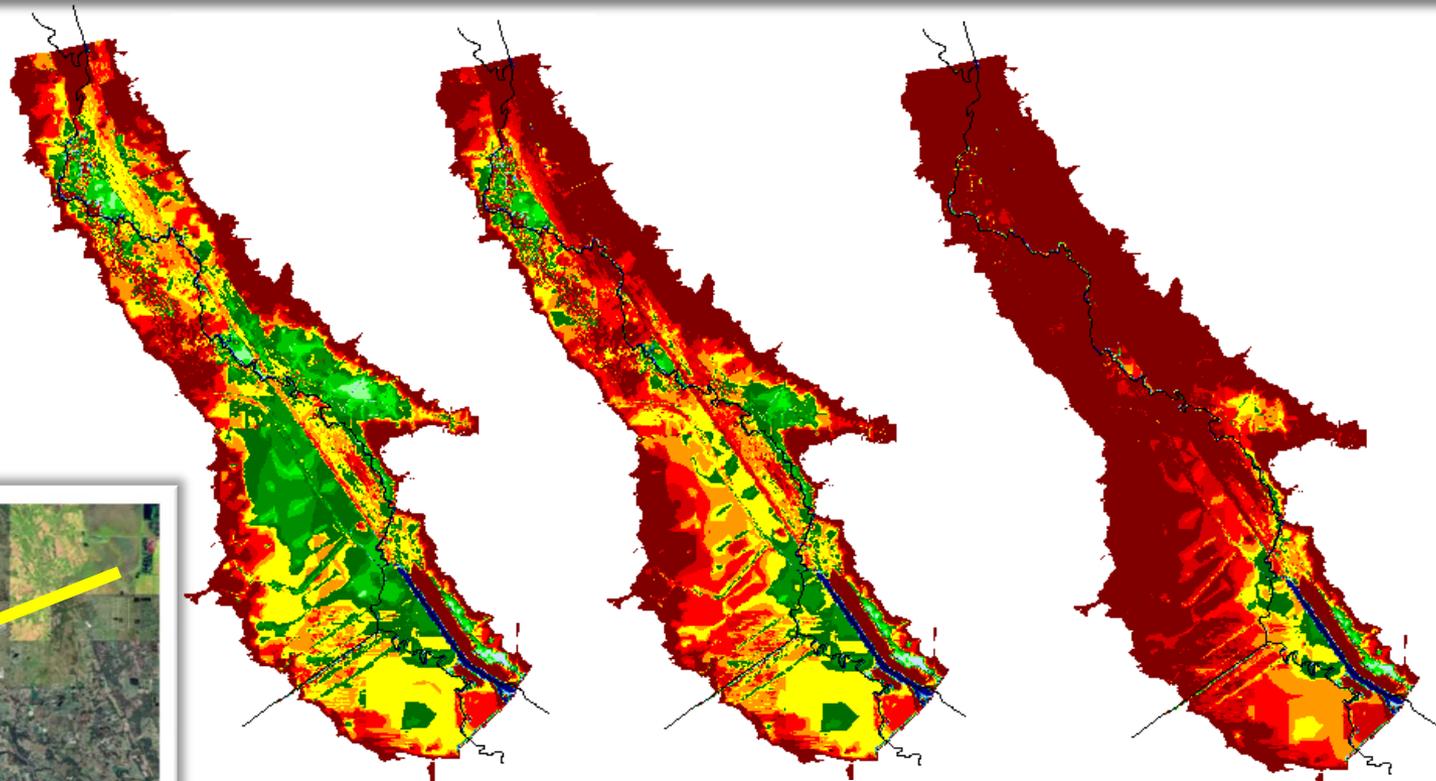
# REGION-BY-REGION FOCUS



- Kissimmee
- Lake Okeechobee
- Coastal
- Stormwater Treatment Areas
- Everglades
- Florida Bay



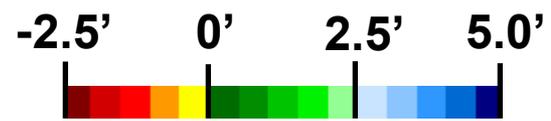
# Kissimmee Basin Water Depth Maps



4/6/2011

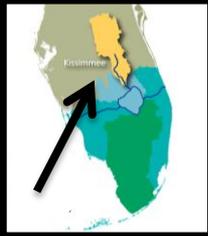
5/6/2011

6/6/2011



Water Depth (feet)





# Kissimmee Basin

**The northern floodplain  
remains dry**

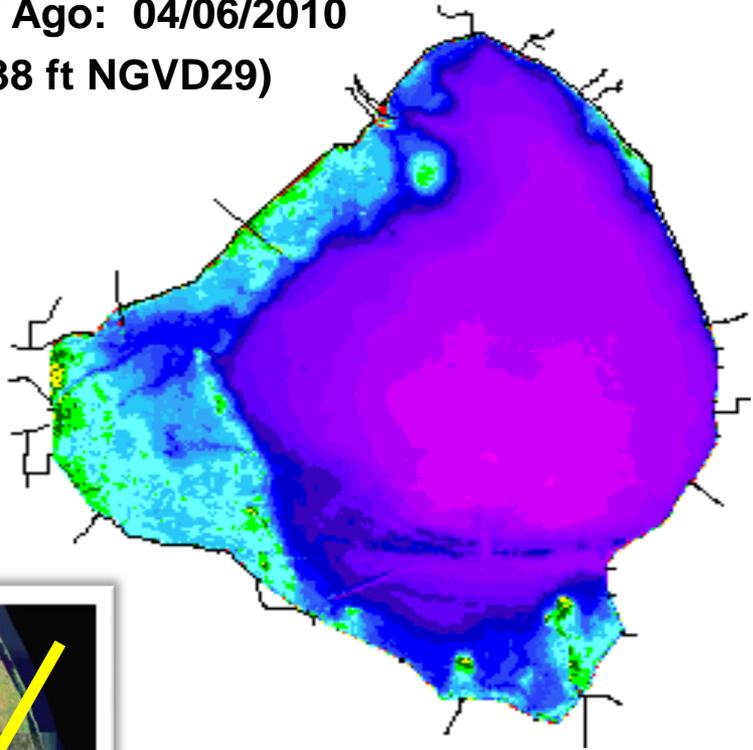
**Sand bars are now  
exposed by low water  
in the river channel**



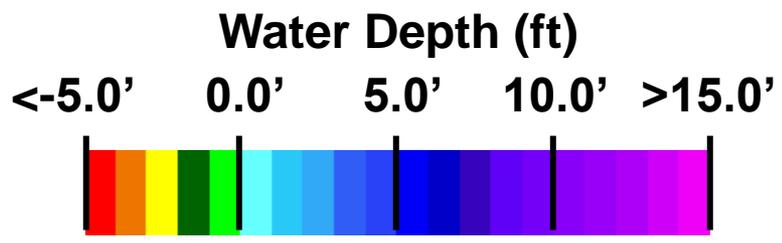
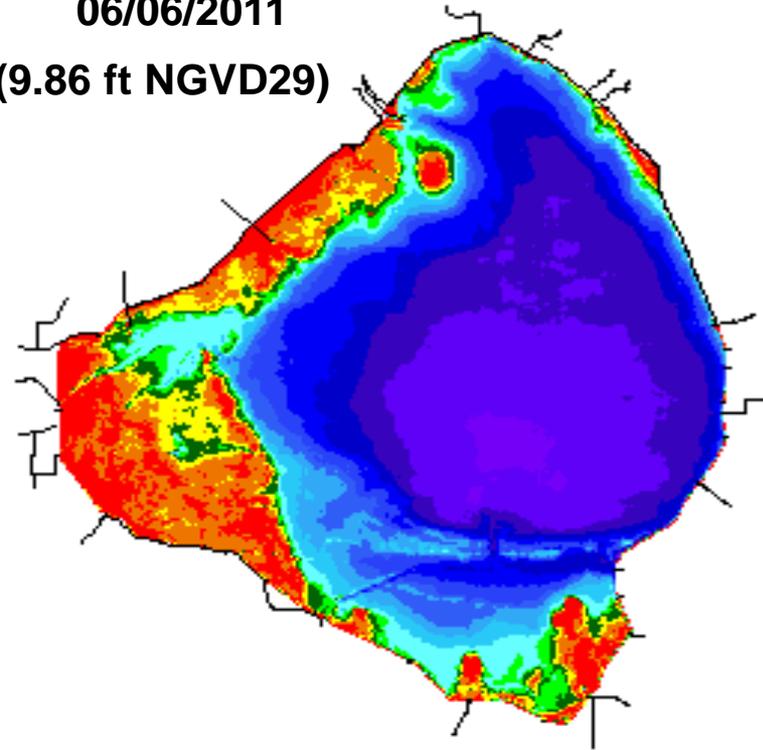


# Lake Okeechobee Water Depth Timeseries Maps

1 Year Ago: 04/06/2010  
(14.38 ft NGVD29)



06/06/2011  
(9.86 ft NGVD29)



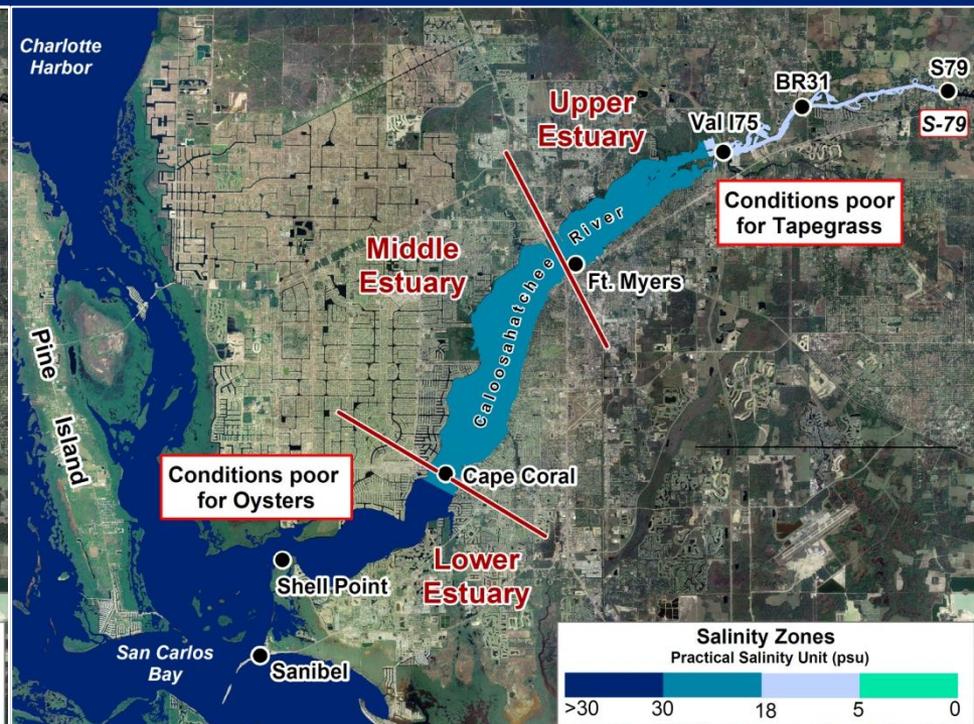
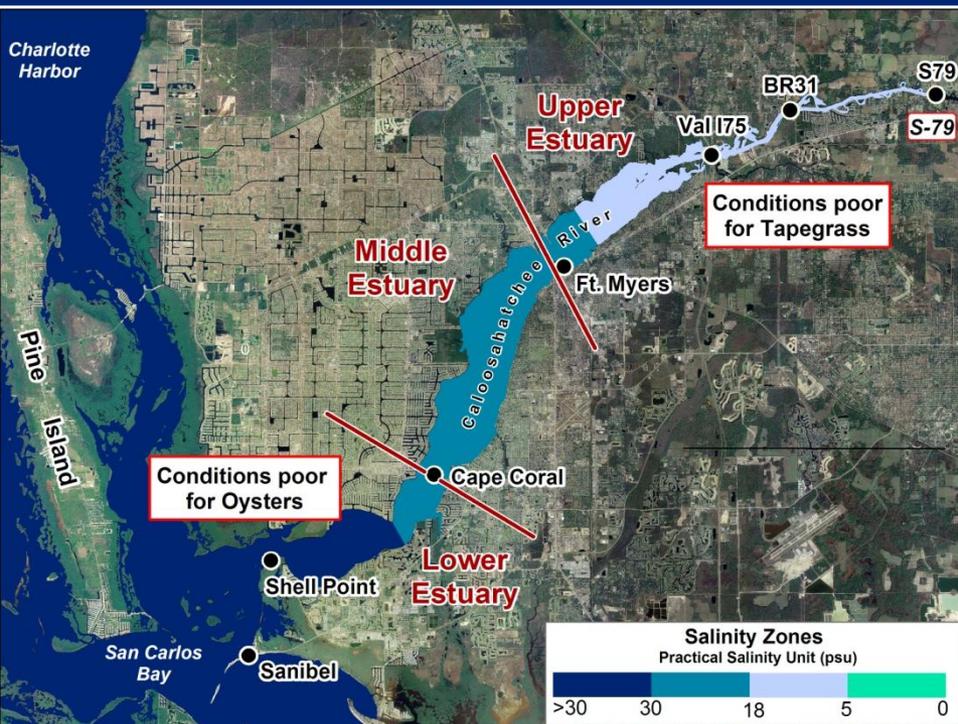
# Caloosahatchee Estuary



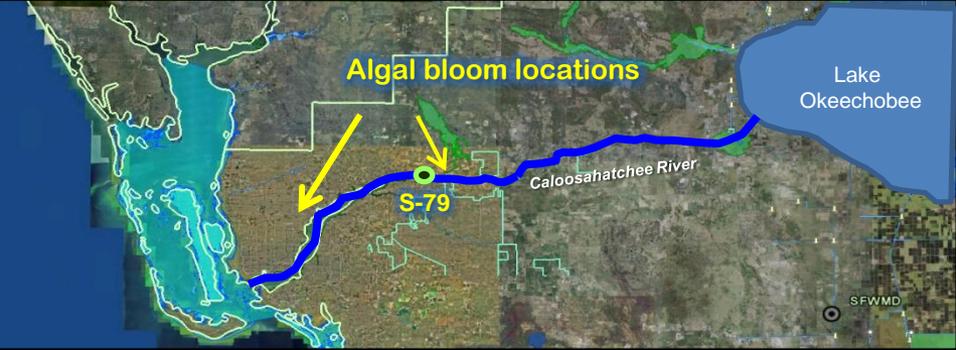
## Salinity Conditions

May 9, 2011

June 6, 2011



# Algal Bloom Conditions in the Caloosahatchee



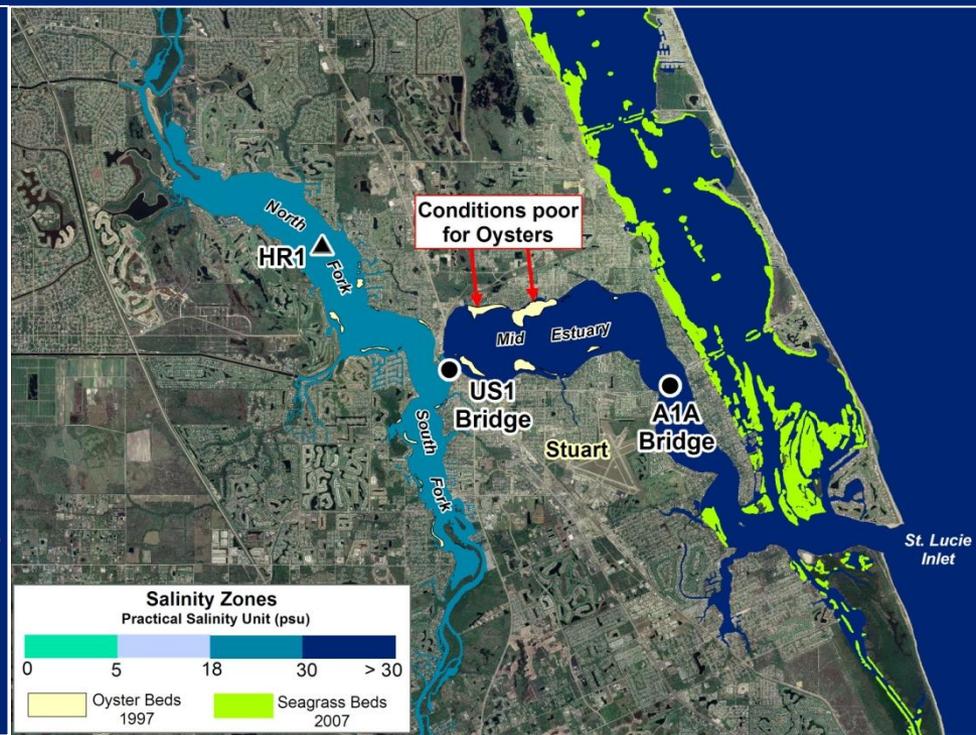
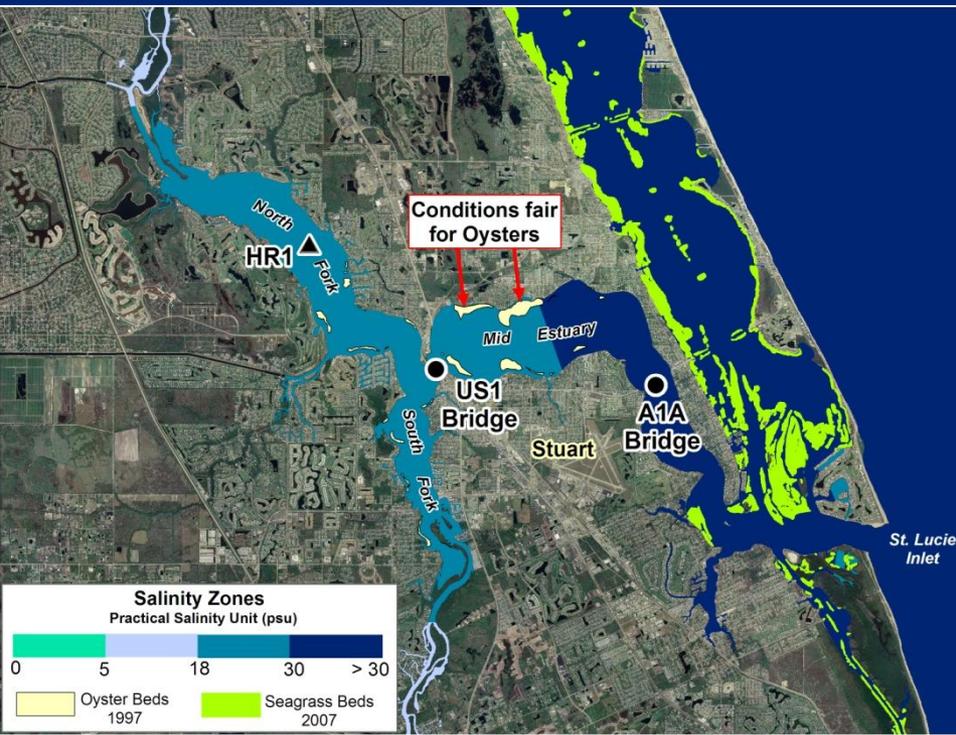


# St. Lucie Estuary

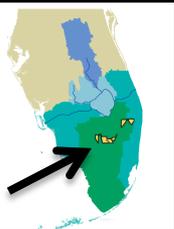
## Salinity Conditions

May 9, 2011

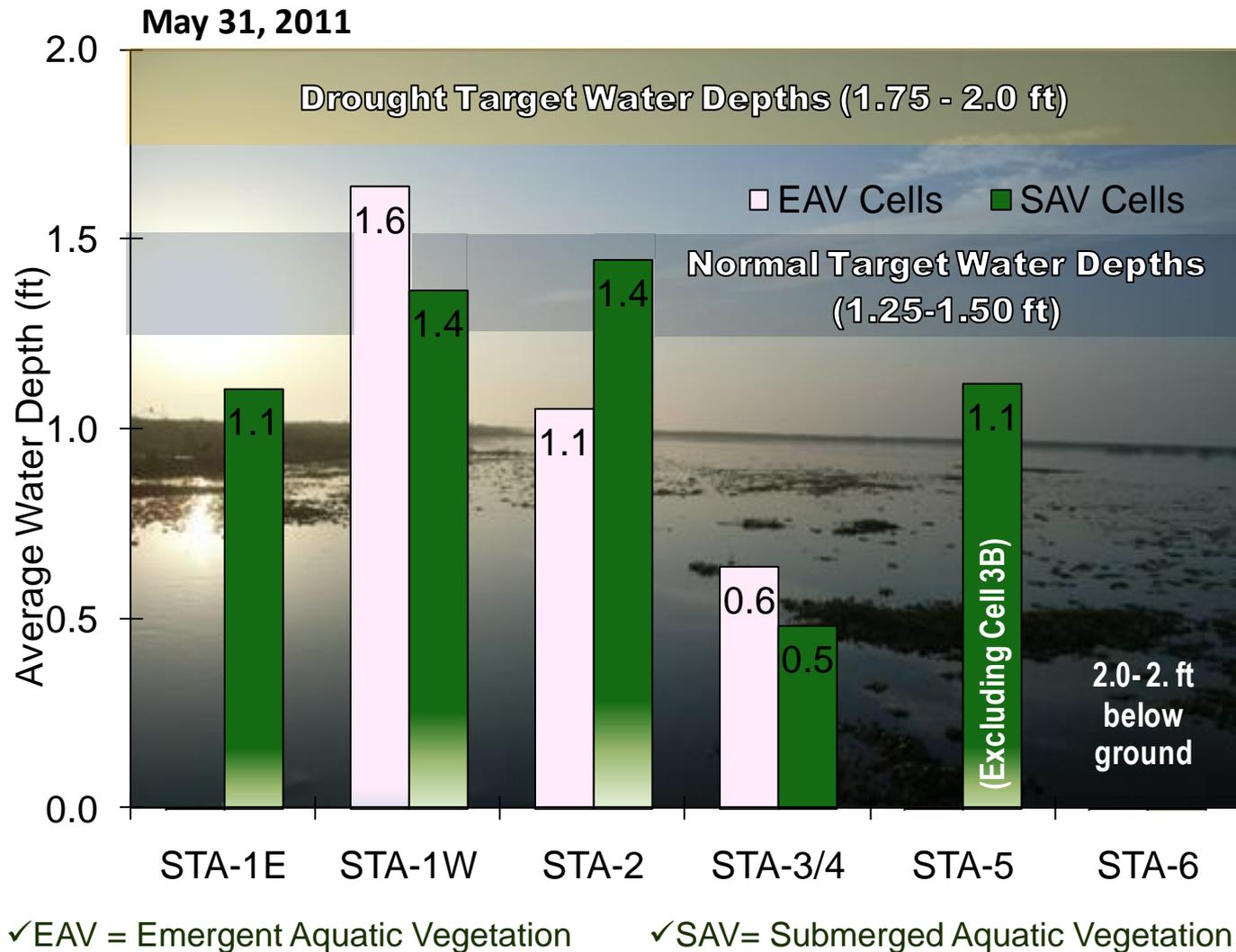
June 6, 2011

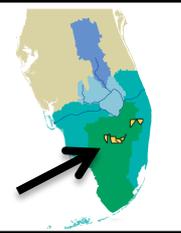


# Stormwater Treatment Areas



## Water Depth Conditions as of May 31, 2011





# Stormwater Treatment Areas

## Avian Protection Plan Survey Update (Black-Necked Stilt Nests)

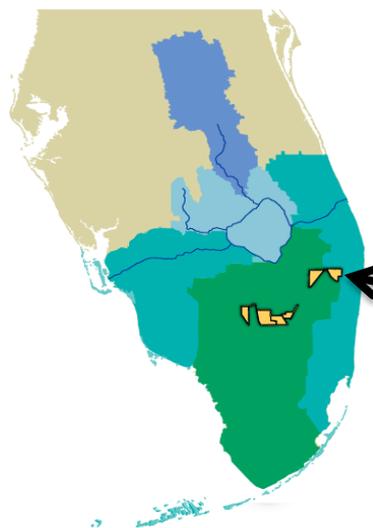


| STA     | LAST SURVEYED | # of NESTS |
|---------|---------------|------------|
| STA-1E  | 6-6-11        | 9          |
| STA-1W  | 5-25-11       | 17         |
| STA-2   | 5-20-11       | 20         |
| STA-3/4 | 5-27-11       | 107        |
| STA-5   | 5-31-11       | 1          |



Black-Necked Stilt Chicks

# Stormwater Treatment Areas



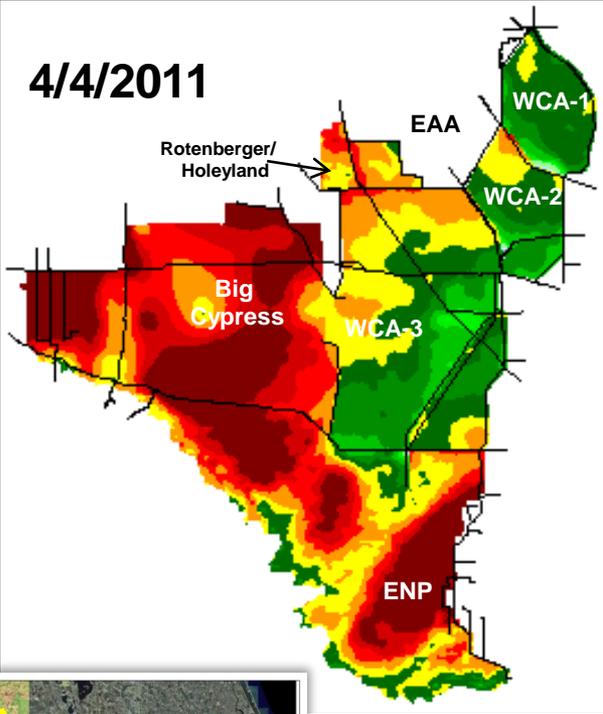
Gators and wading birds clustered near each other in the same corner of STA-1E



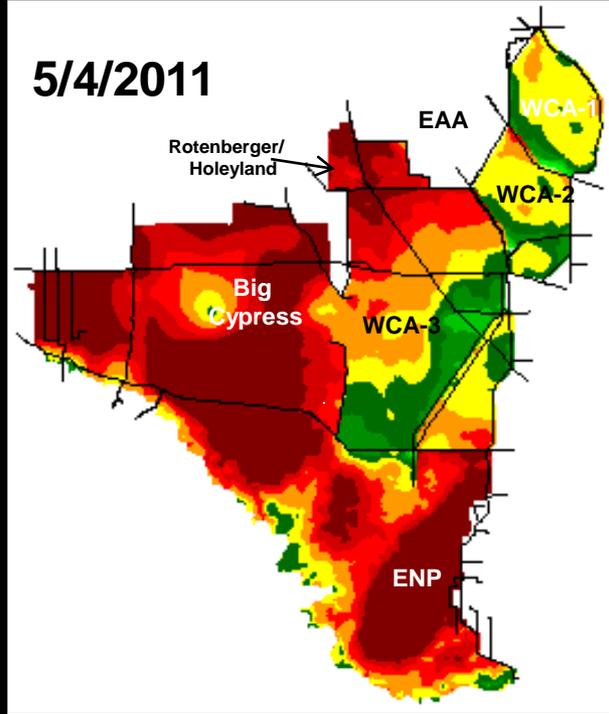
# Greater Everglades Water Depth Monthly Snapshots



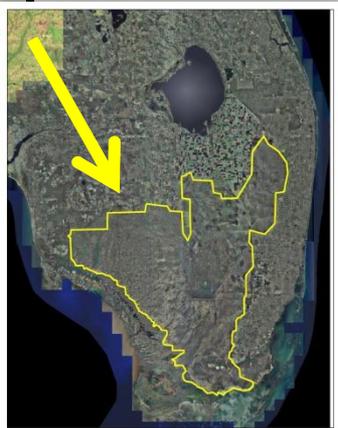
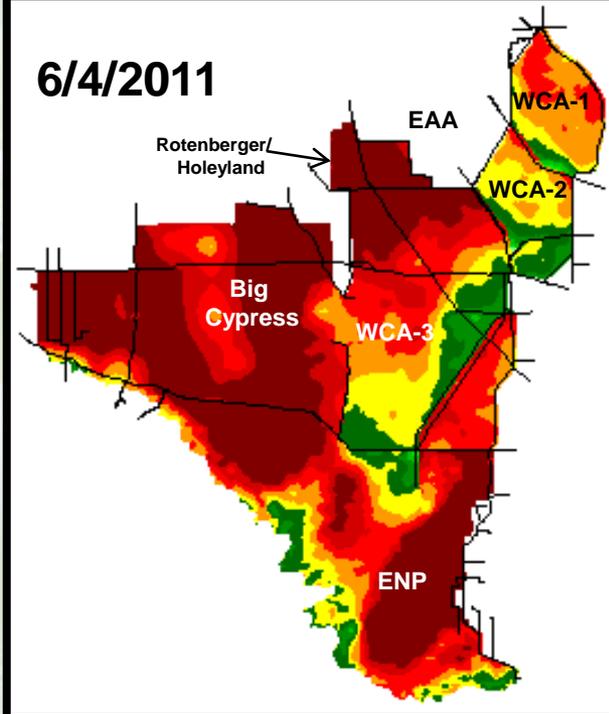
4/4/2011



5/4/2011



6/4/2011

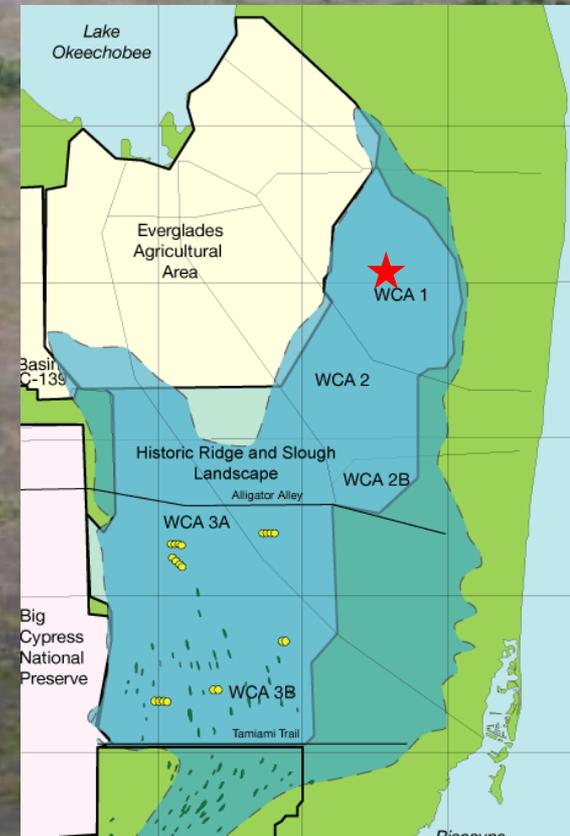


Water Depth (feet)

-2.5'    0'    2.5'    5.0'



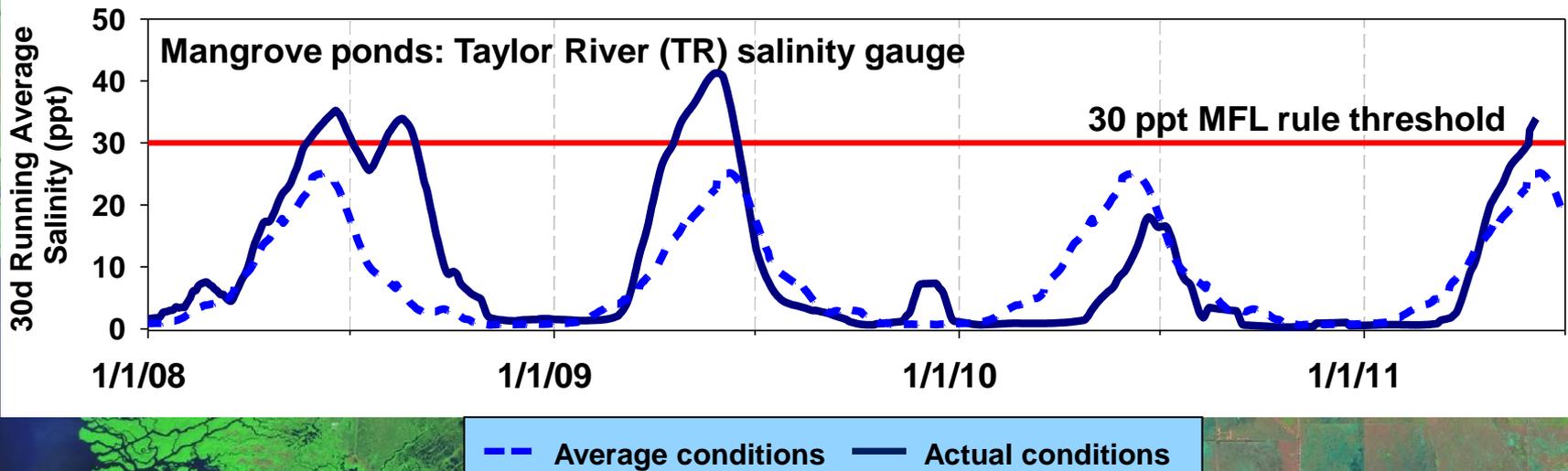
Central WCA1



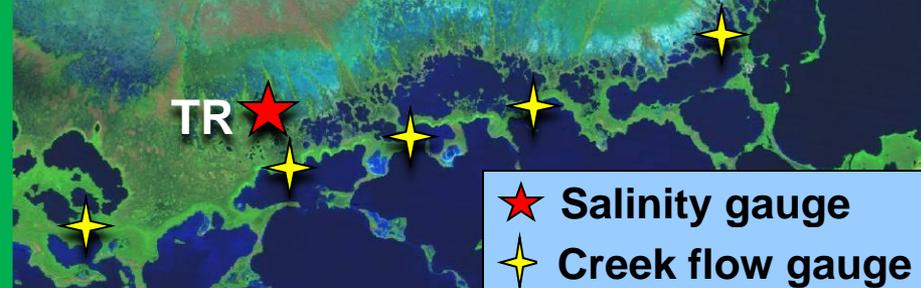


**Prairie Fire near Krome Avenue in Miami-Dade is spreading - 8,500 acres burned, so far**

# Tracking Salinity in Florida Bay



- Water levels in the southern Everglades are below average for early wet season
- Florida Bay salinity is slightly above average and rising. Some areas are hypersaline (> 40 ppt)
- Florida Bay MFL salinity threshold was exceeded week of 5/30



# Thank You

