

Governing Board Meeting  
July 15, 2010

# Ecological Conditions Update

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# Kissimmee Basin - SUMMARY

Conditions in the Kissimmee Basin are seasonally normal

## Upper Basin:

- S-65 discharge was reduced in June to allow lake stages to rise over the wet season
- Successful snail kite nesting season

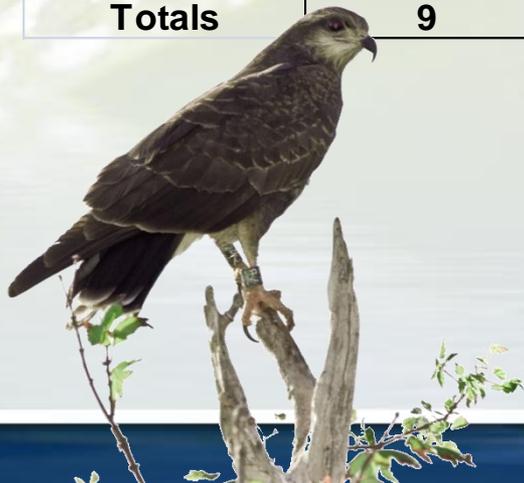
## Lower Basin – KRRP Phase I area:

- DO concentrations have entered the level of concern
- Phase I area floodplain water depth is declining in response to reduced discharge from upper basin
- Large flocks of wading birds are foraging in drying pools in the northern reaches of the floodplain

# Upper Kissimmee Basin

Water Body	Active Nests					Survey 6 (early July) - final breeding survey
	Survey 1 (3/10 - 3/16/2010)	Survey 2 (3/30 - 4/8/2010)	Survey 3 (late April)	Survey 4 (late May)	Survey 5 (6/14/2010)	
Cypress	0	0	0	0	0	0
E. Tohopekaliga	2	3	7	5	2	2
Hatchineha	2	2	2	0	1	1
Jackson	0	1	3	5	13	6
Kissimmee	0	3	3	1	1	1
Marian	0	0	0	0	0	0
Tiger	0	0	0	0	0	0
Tohopekaliga	5	27	29	31	30	25
<b>Totals</b>	<b>9</b>	<b>36</b>	<b>44</b>	<b>42</b>	<b>47</b>	<b>35</b>

\*Snail kite nesting data courtesy of University of Florida



# Lake Okeechobee

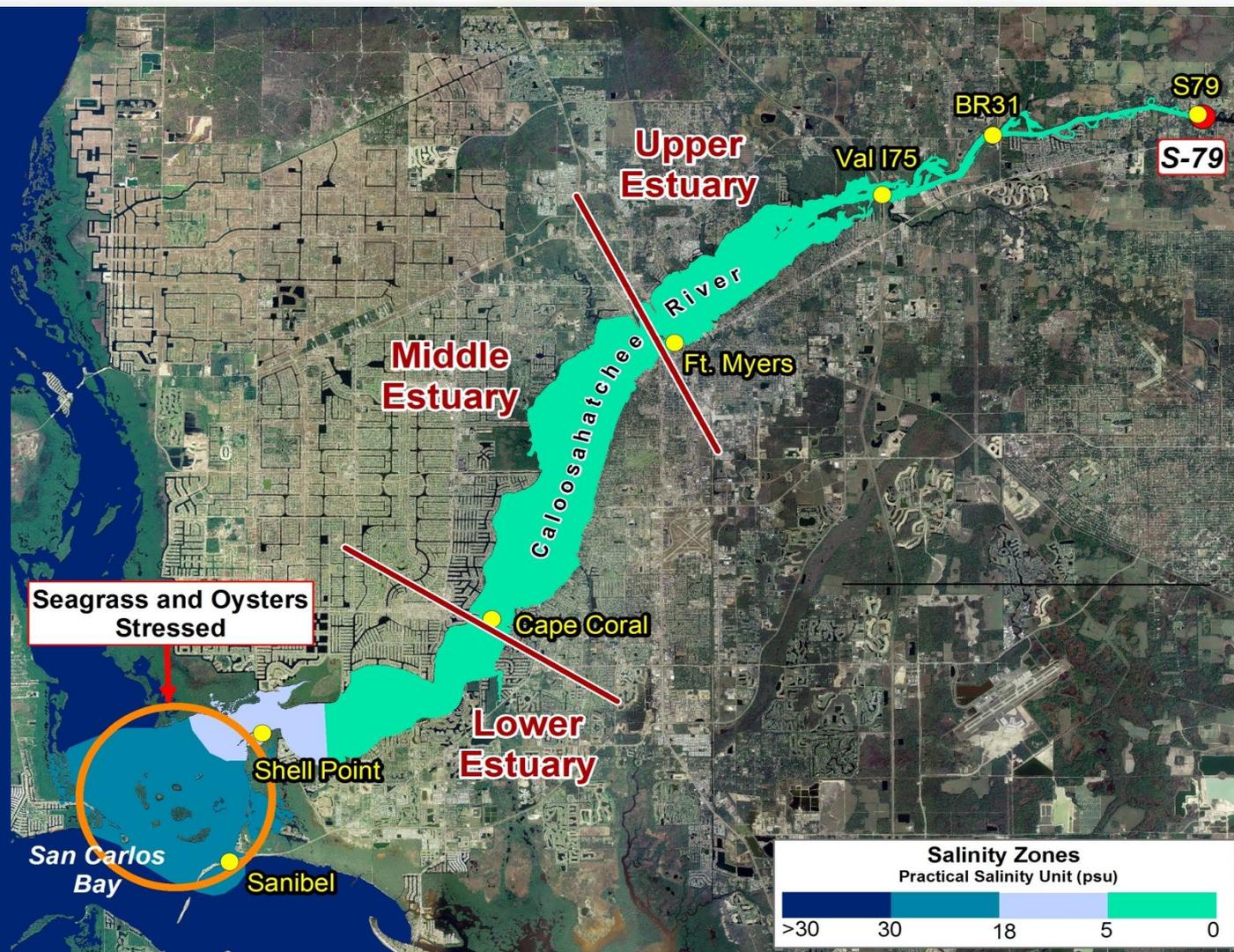
It's Back . . .

**Blue green algal blooms  
are a typical summer  
occurrence on Lake  
Okeechobee**

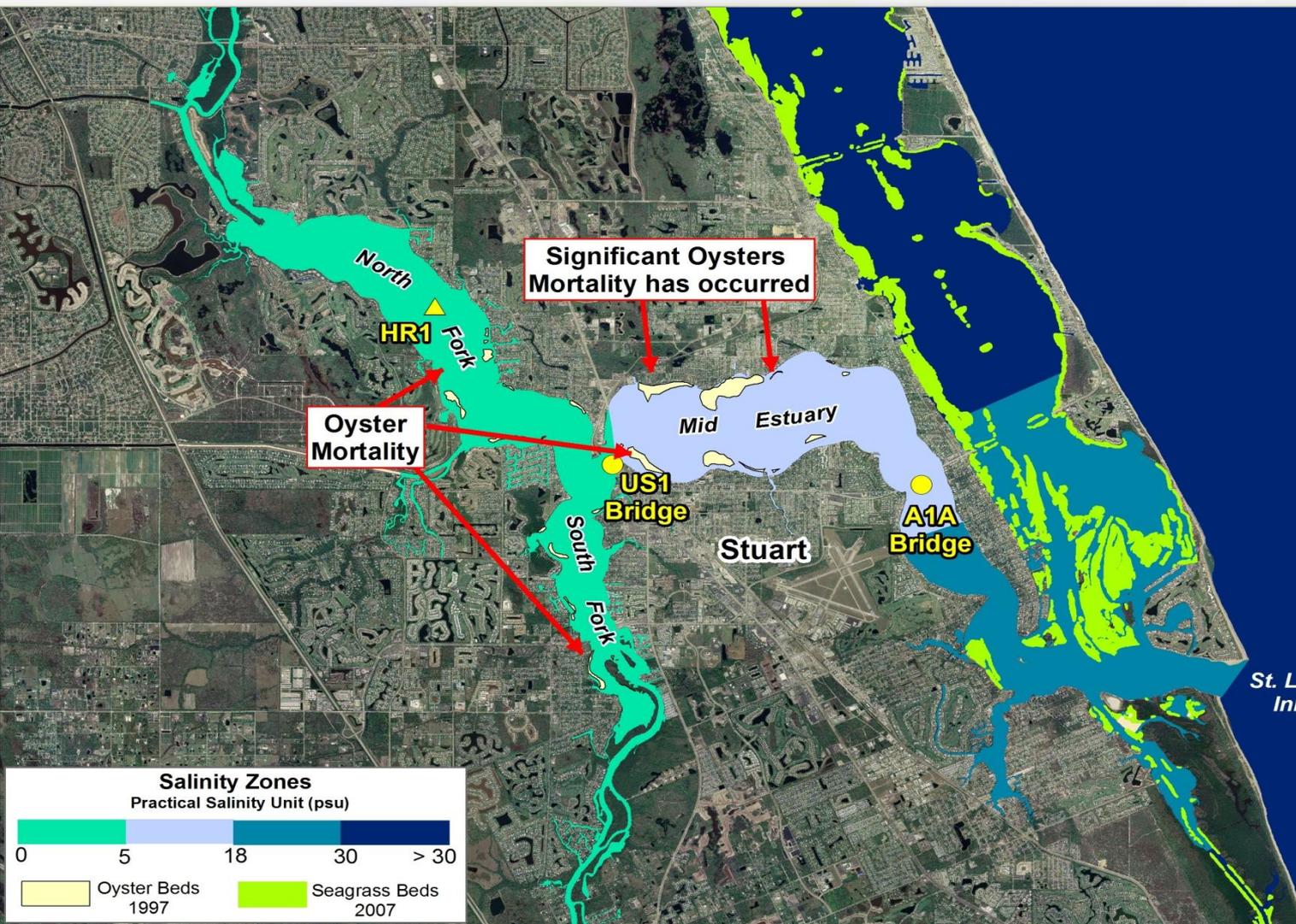


# Caloosahatchee Salinity

- Continued Lake releases and local runoff keep salinities reduced throughout the estuary
- Salinity conditions in the upper Estuary are favorable for tape grass
- Salinity conditions just upstream of Shell Point remain unfavorably low for shoal grass and oysters

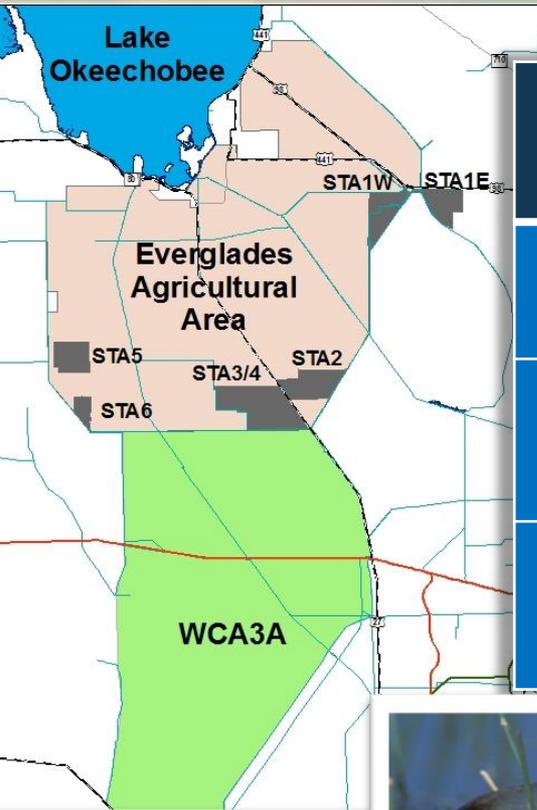


# St. Lucie Salinity: US 1 Bridge



In the St. Lucie, the daily salinity at the US1 Bridge was below the salinity envelope, threatening oyster survival

# Comparative Survey of Bird Use of STAs, WCA 3A and the EAA (2008-2009)



	Total Species	Overall Density	Most Common Species
STAs	104	34.6 birds/ha	American Coot, Common Moorhen
EAA	83	13.7 birds/ha	Red-winged Blackbirds, Tree Swallows, Killdeer
WCA3A	26	0.91 birds/ha	Red-winged Blackbirds, Tree Swallows, Boat-tailed Grackles



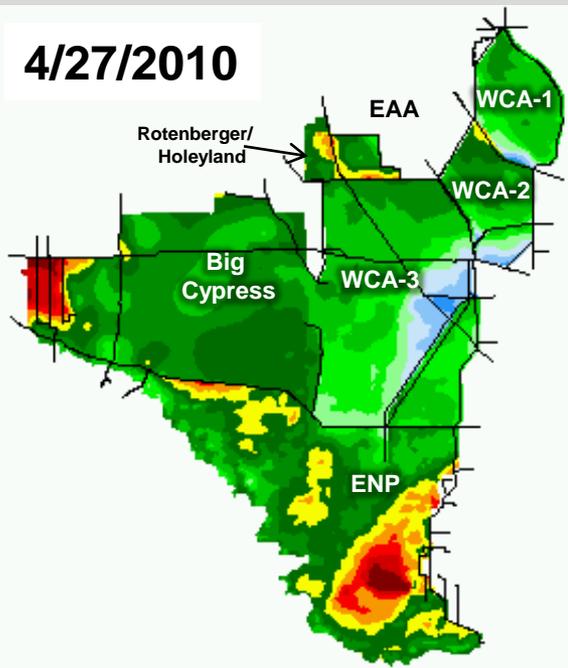
# Submerged Aquatic Vegetation (SAV) Inoculation in STA 2 and 1 E



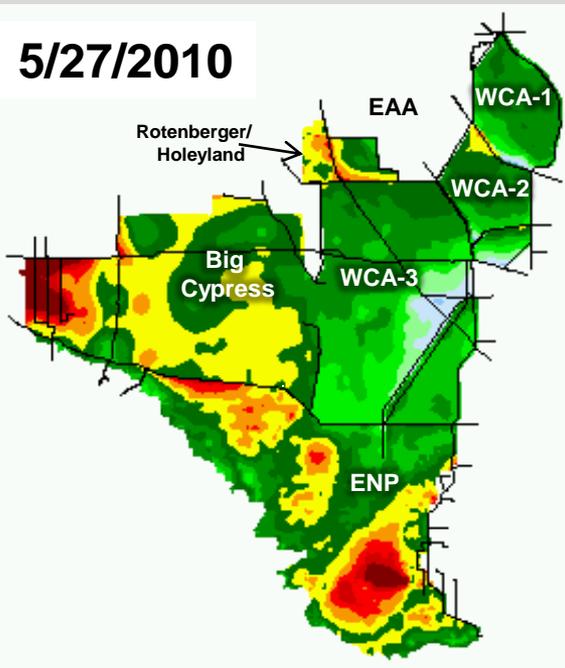
- 80 loads
- Approximately 120,000 lbs of SAV transported
- Conversion of STA 2 Cell 2
- Enhancement of STA 1E cell 6

# Greater Everglades Water Depth Monthly Snapshots

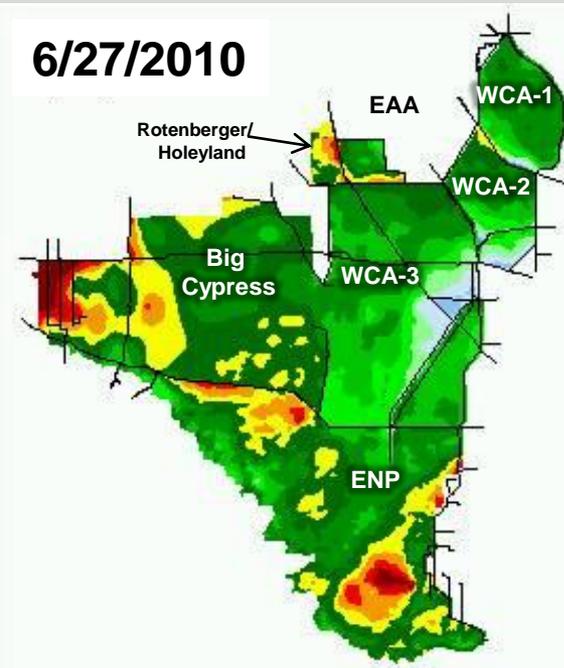
4/27/2010



5/27/2010



6/27/2010

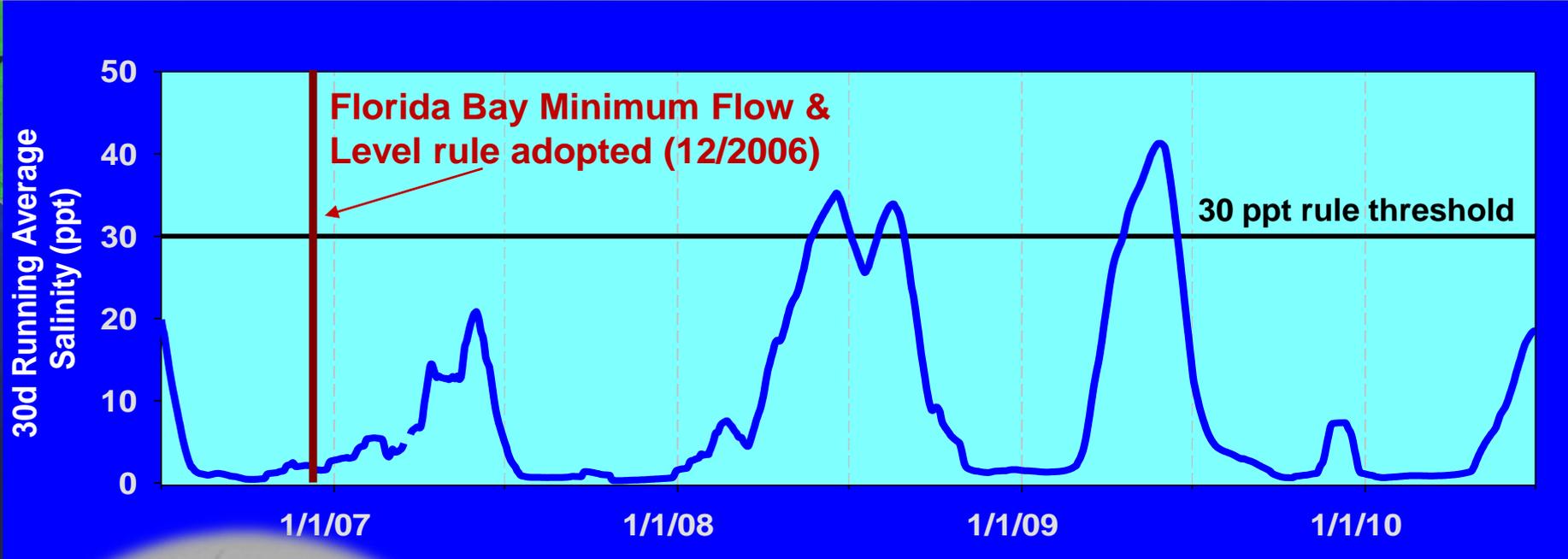


Water Depth (feet)

-2.5' 0' 2.5' 5.0'



# Tracking Salinity in Florida Bay Science and Operational Coordination



Goal: Protect seagrass habitat to prevent significant harm to ecosystem

- ★ Salinity gauge
- ★ Creek flow gauge



Cape Sable Seaside Sparrow

# Thank You!

