GOVERNING BOARD MEETING

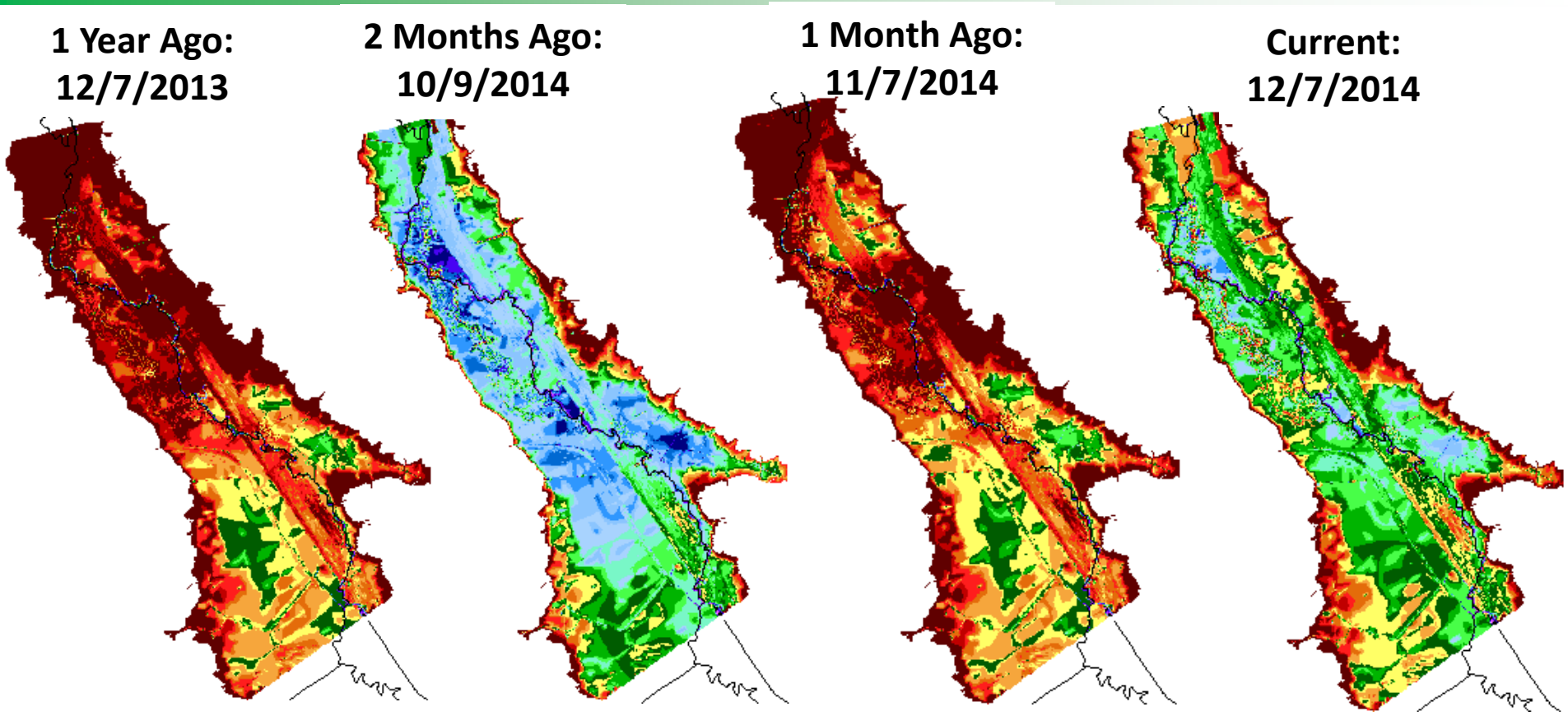
December 11, 2014

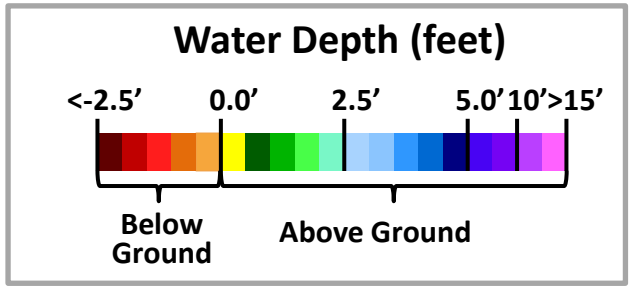
ECOLOGICAL CONDITIONS UPDATE

Terrie Bates
Director, Water Resources Division

J. W. Corbett Area Photo

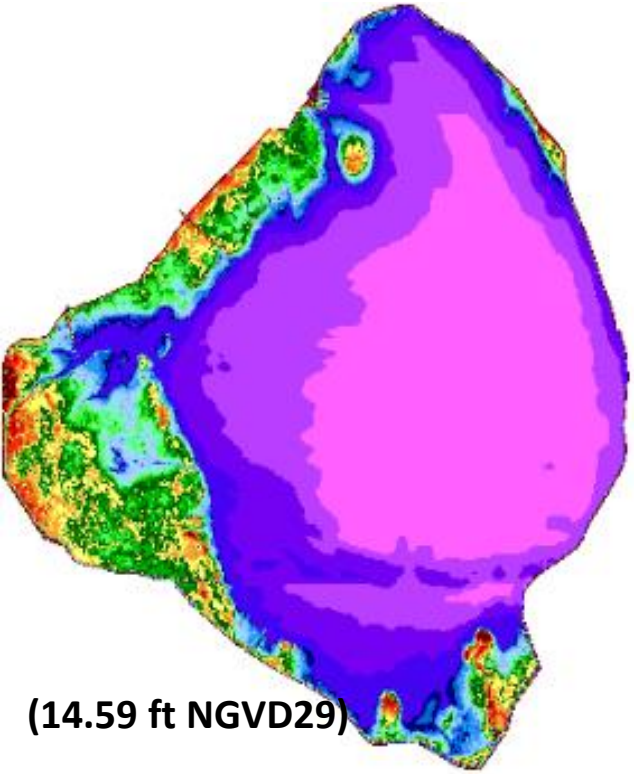
Kissimmee River (Phase I Restoration Area) Monthly Water Depth Maps





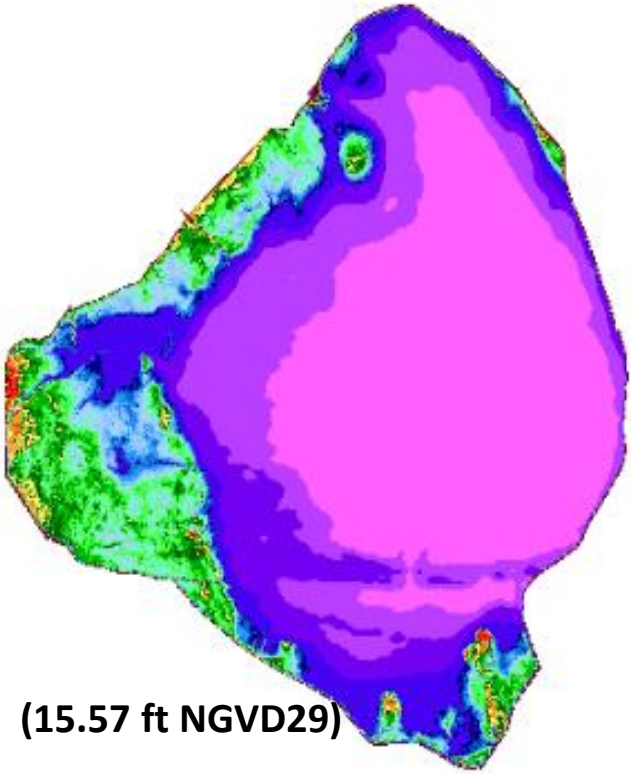
Lake Okeechobee
Water Depth Timeseries Maps

1 Year Ago: 12/08/2013



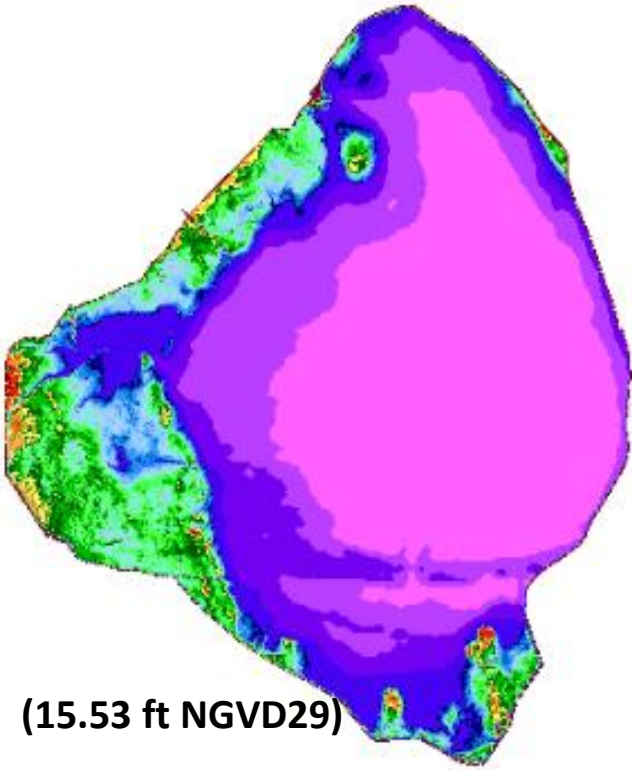
(14.59 ft NGVD29)

1 Month Ago: 11/08/2014



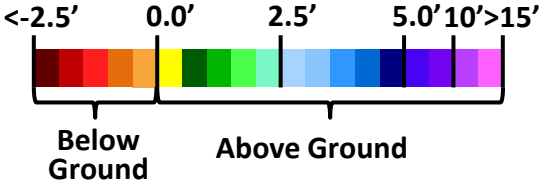
(15.57 ft NGVD29)

Current: 12/08/2014

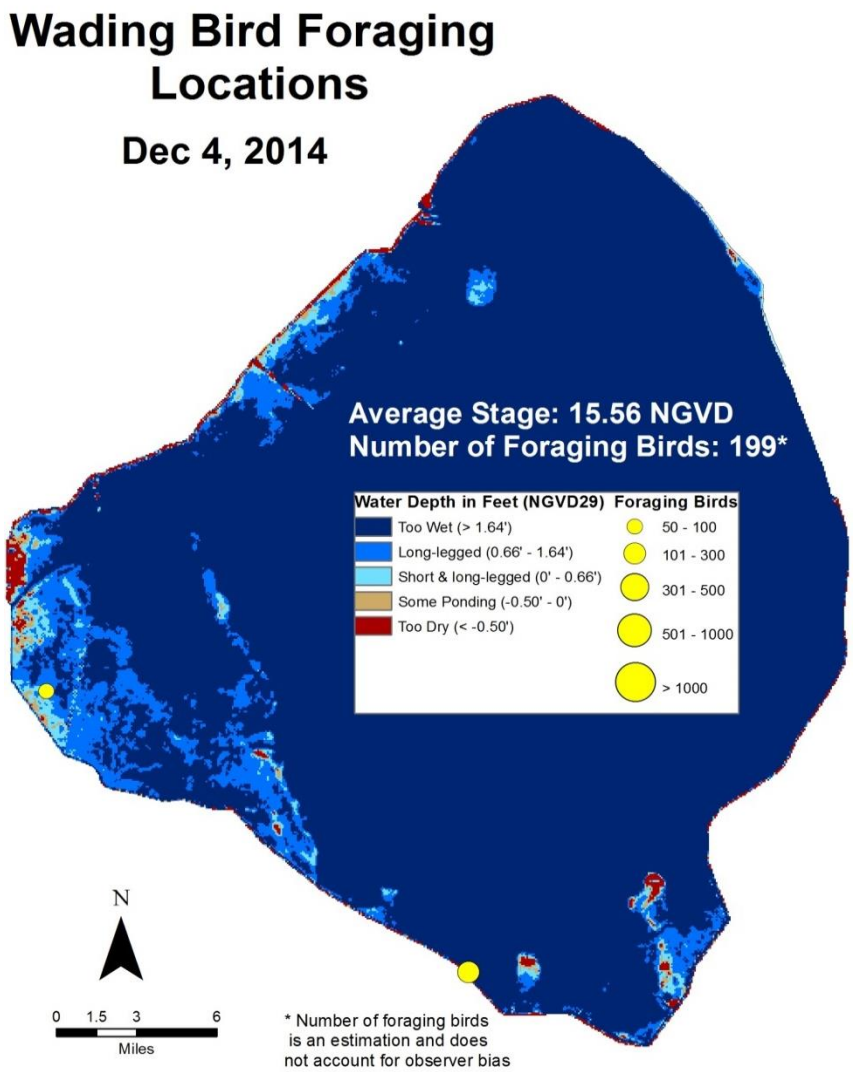


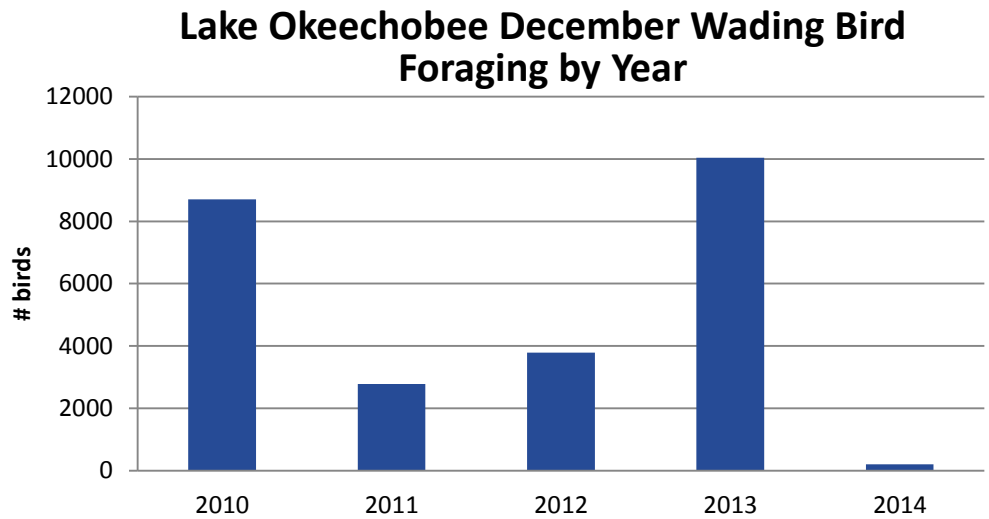
(15.53 ft NGVD29)

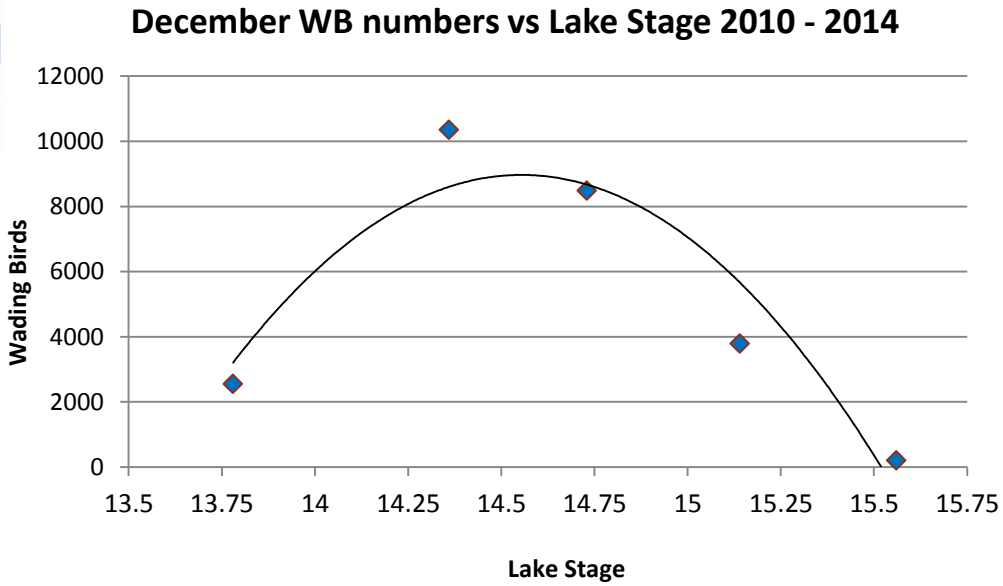
Water Depth (feet)



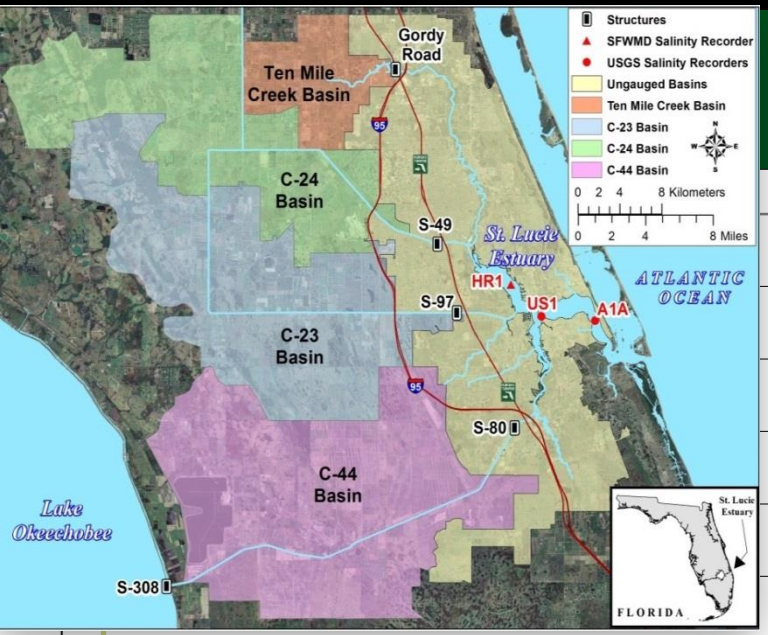
Lake Okeechobee Wading Birds



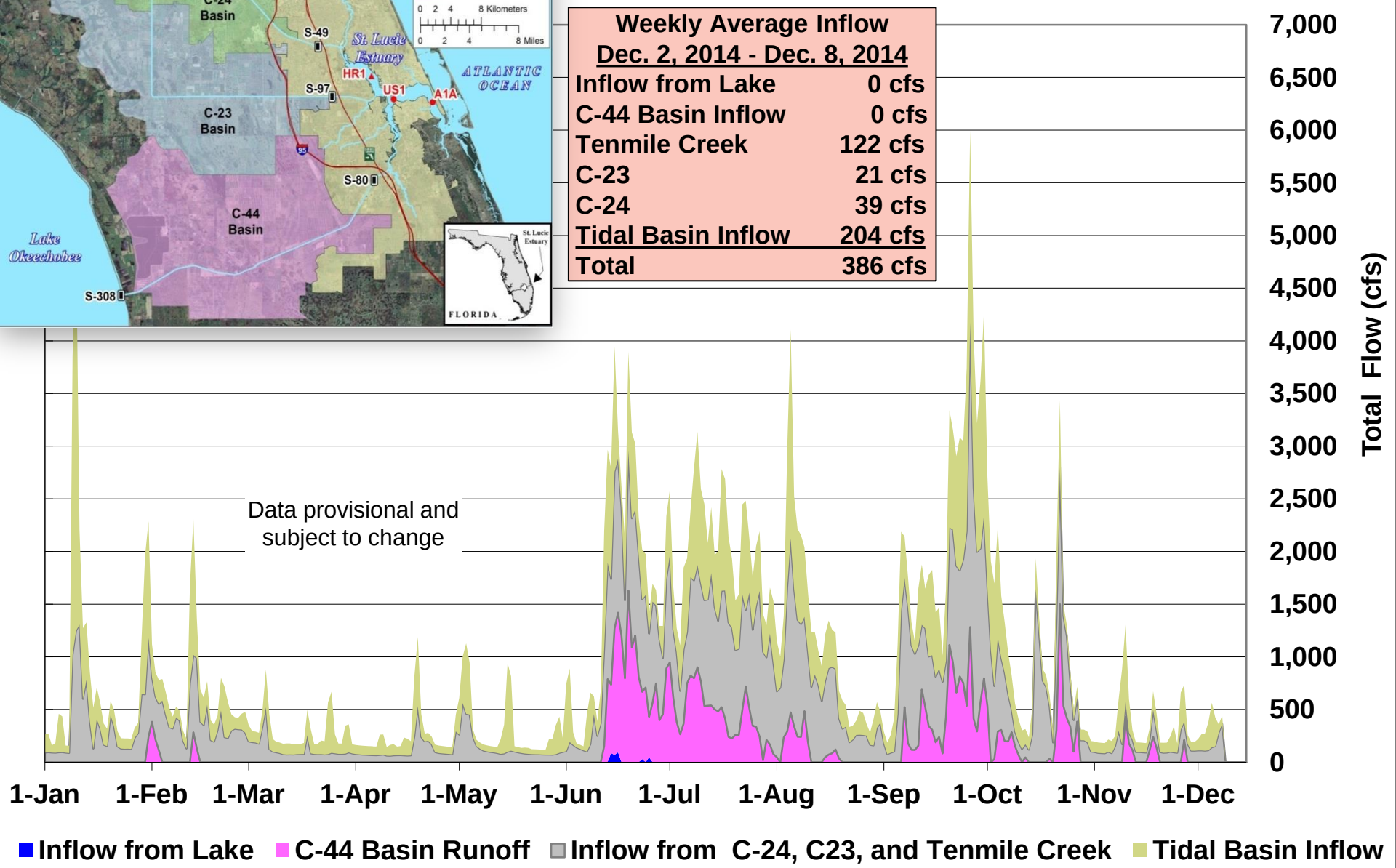




St. Lucie Estuary



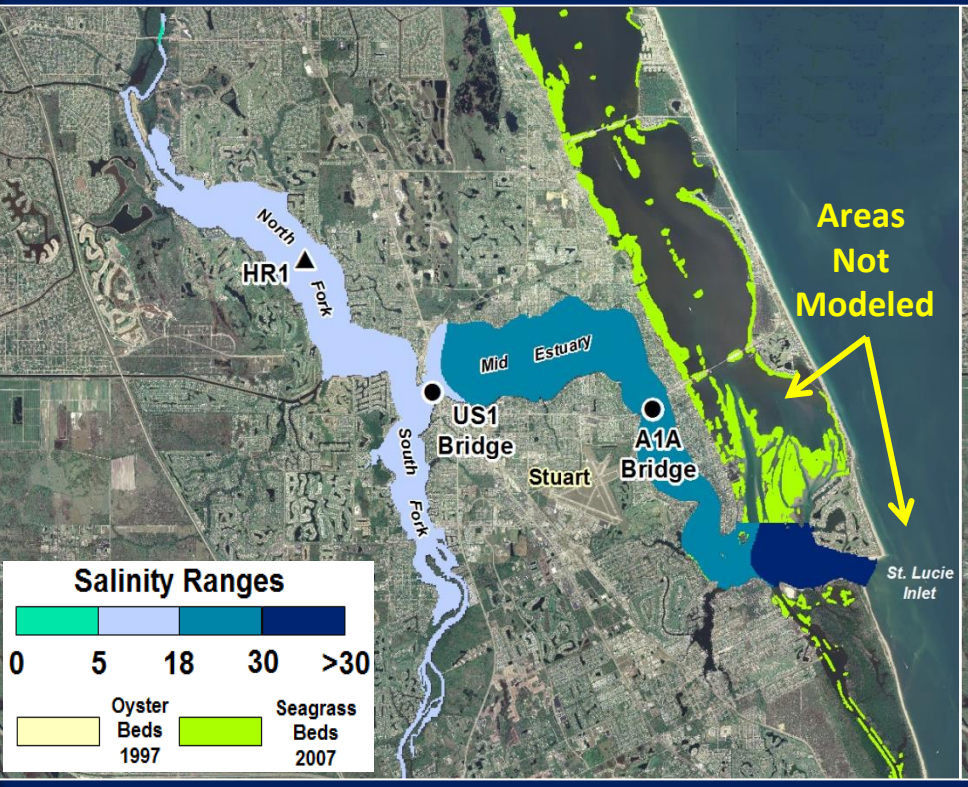
Weekly Average Inflow Dec. 2, 2014 - Dec. 8, 2014	
Inflow from Lake	0 cfs
C-44 Basin Inflow	0 cfs
Tenmile Creek	122 cfs
C-23	21 cfs
C-24	39 cfs
Tidal Basin Inflow	204 cfs
Total	386 cfs



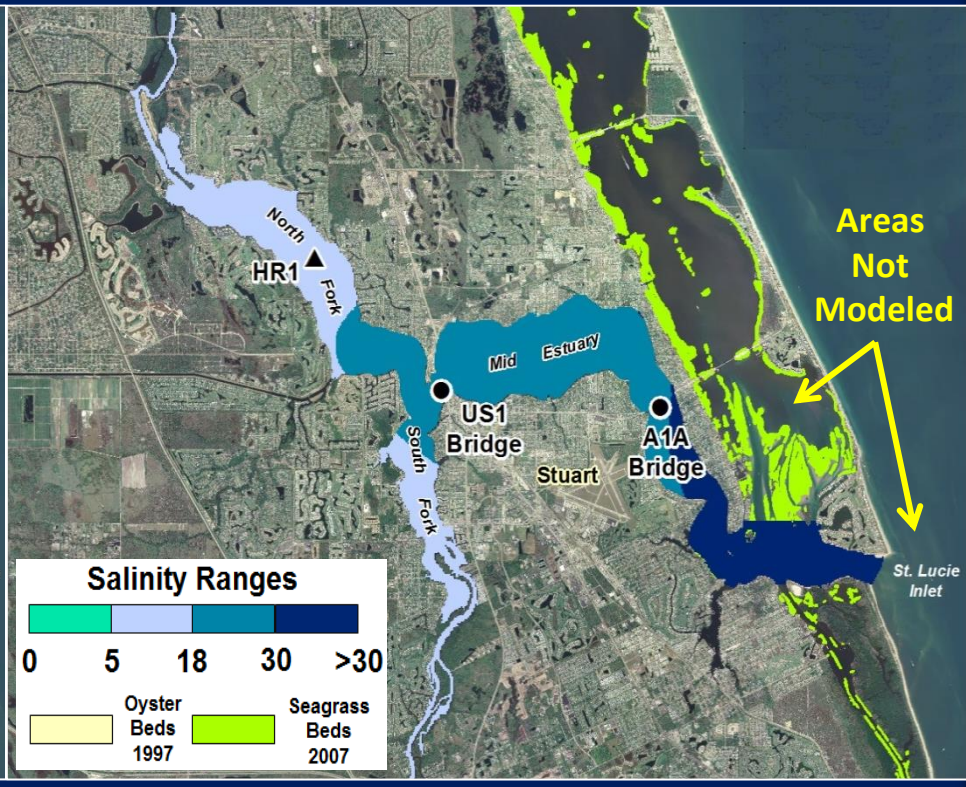
St. Lucie Estuary

Salinity Conditions

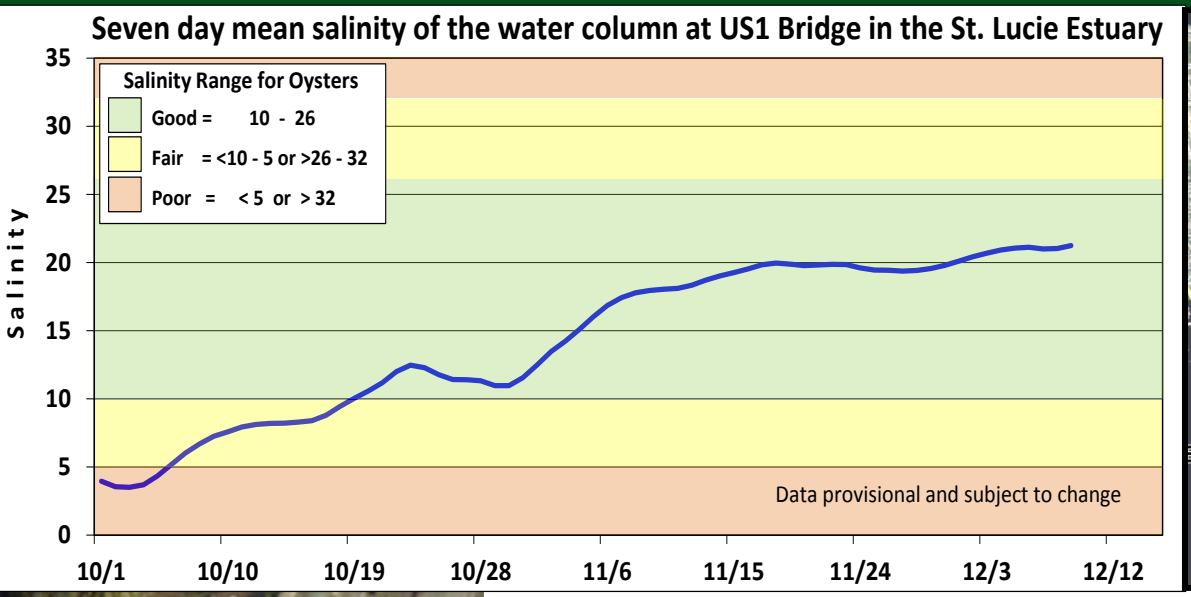
November 10, 2014

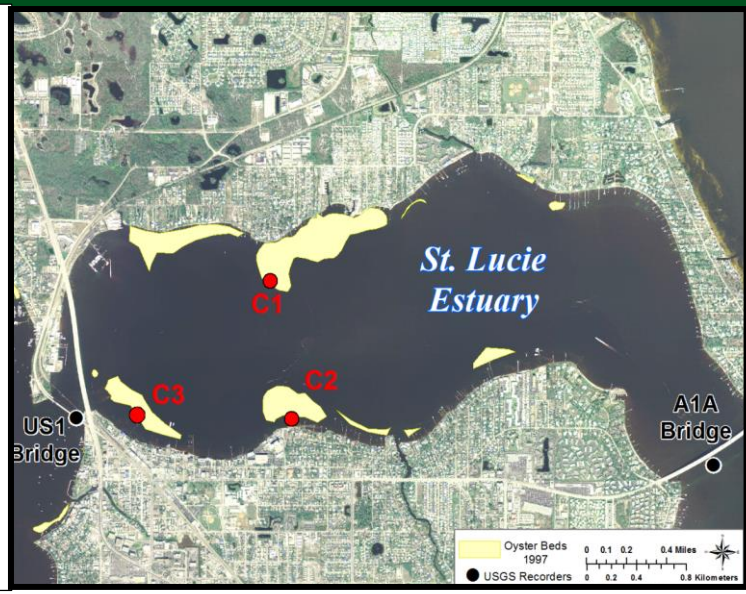


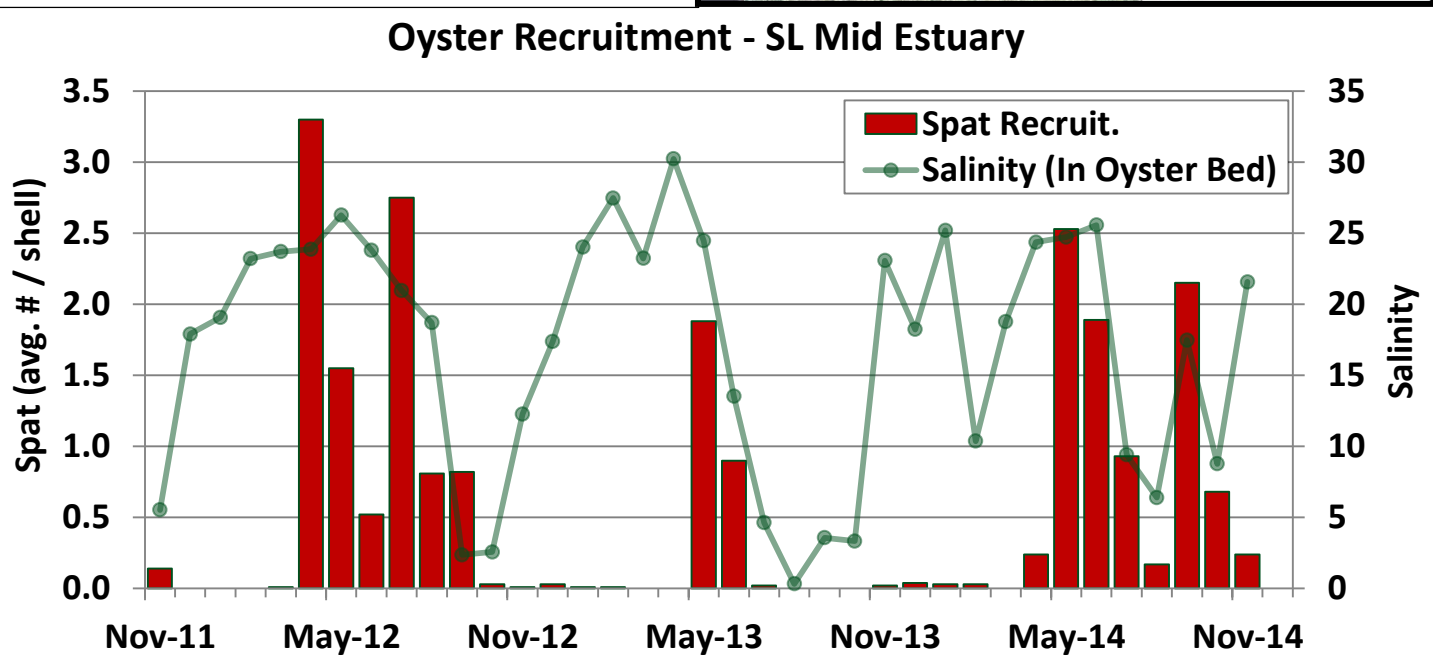
December 8, 2014



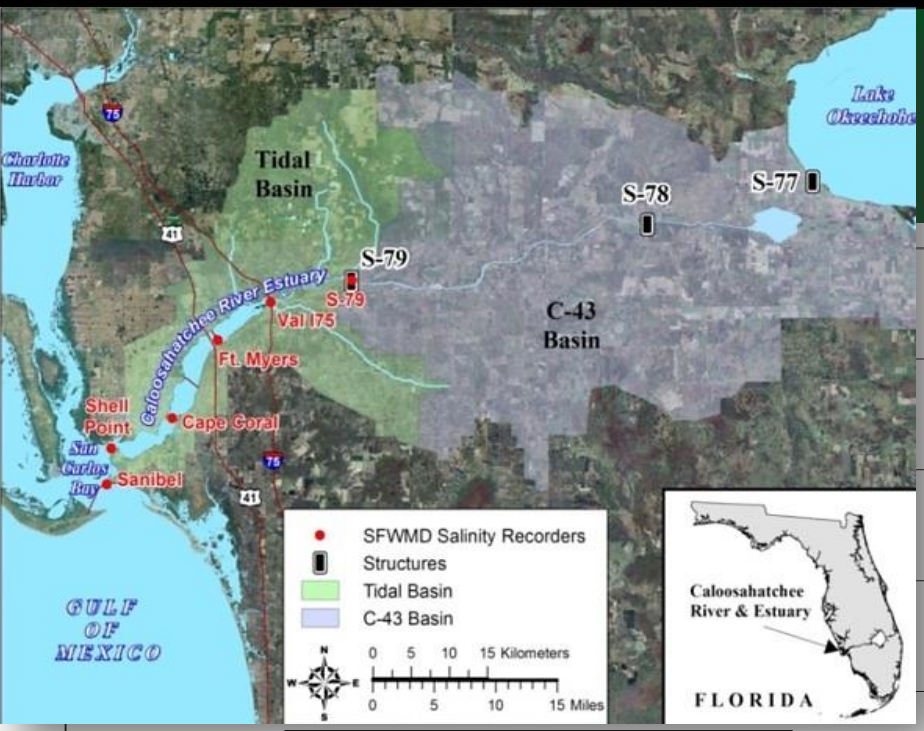
St. Lucie Estuary - Oysters

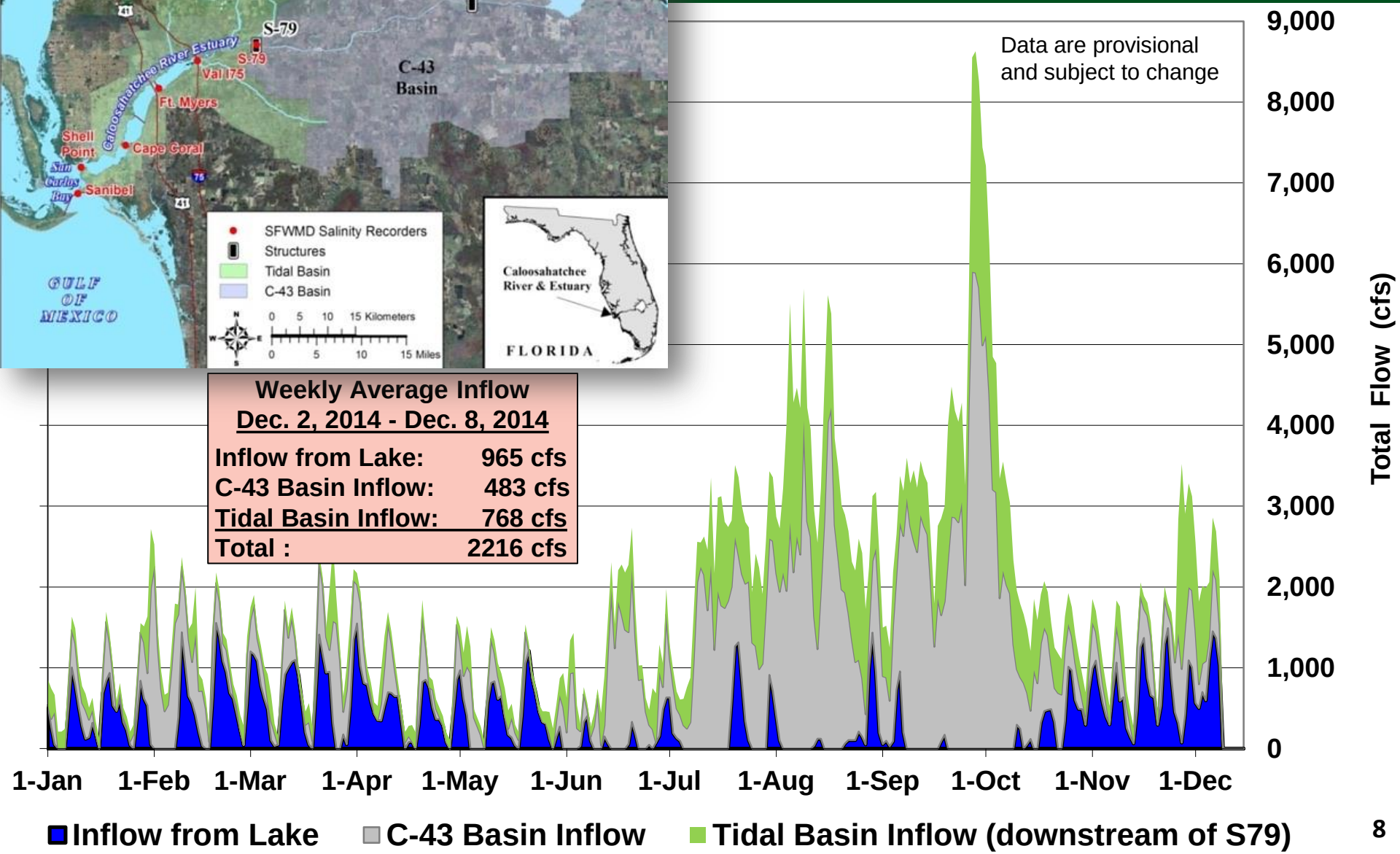






Caloosahatchee Estuary





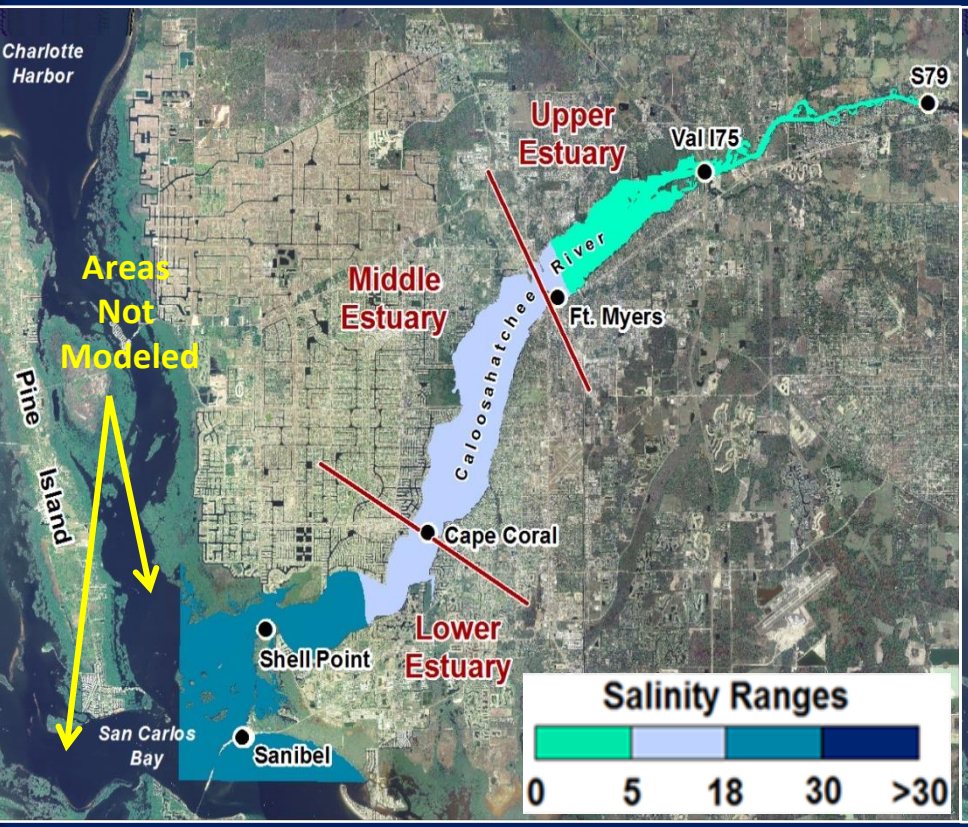
Weekly Average Inflow
Dec. 2, 2014 - Dec. 8, 2014

Inflow from Lake:	965 cfs
C-43 Basin Inflow:	483 cfs
Tidal Basin Inflow:	768 cfs
Total :	2216 cfs

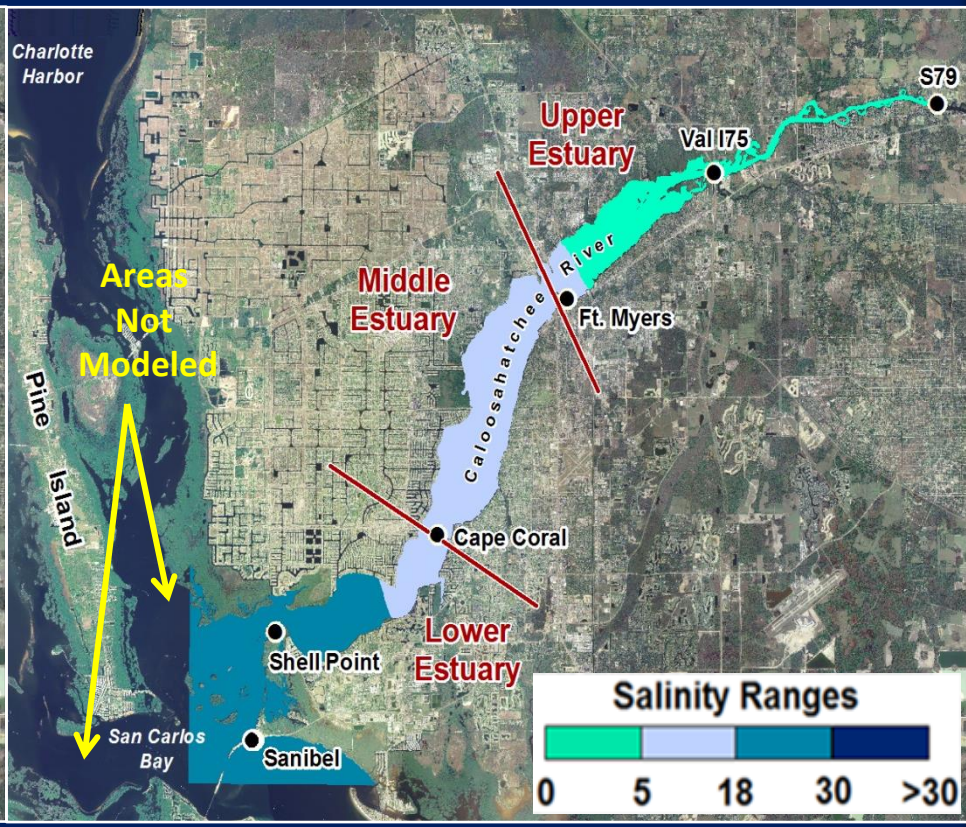
Caloosahatchee Estuary

Salinity Conditions

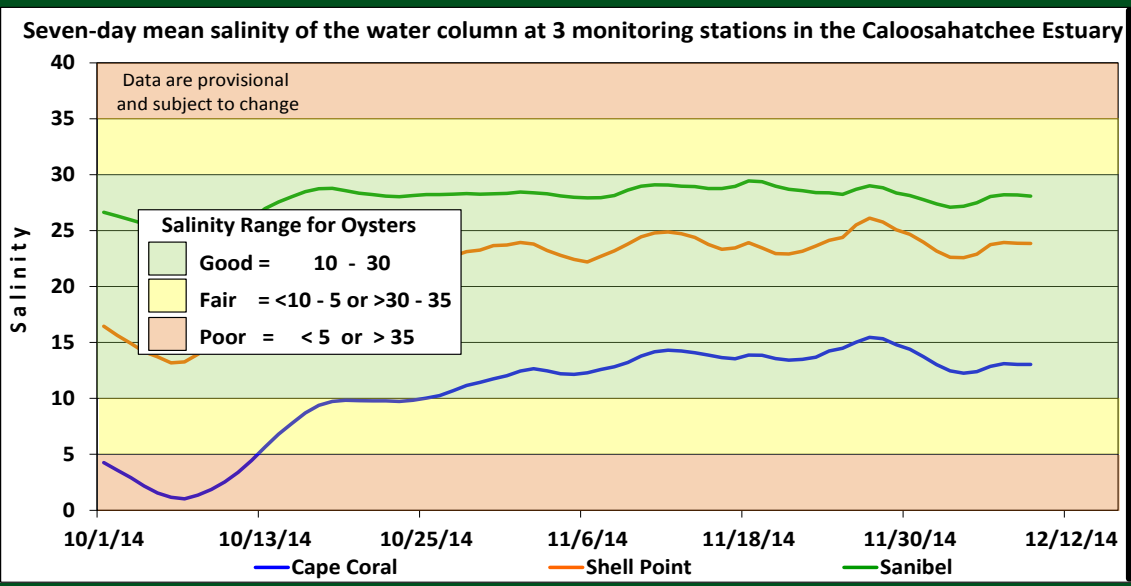
November 10, 2014

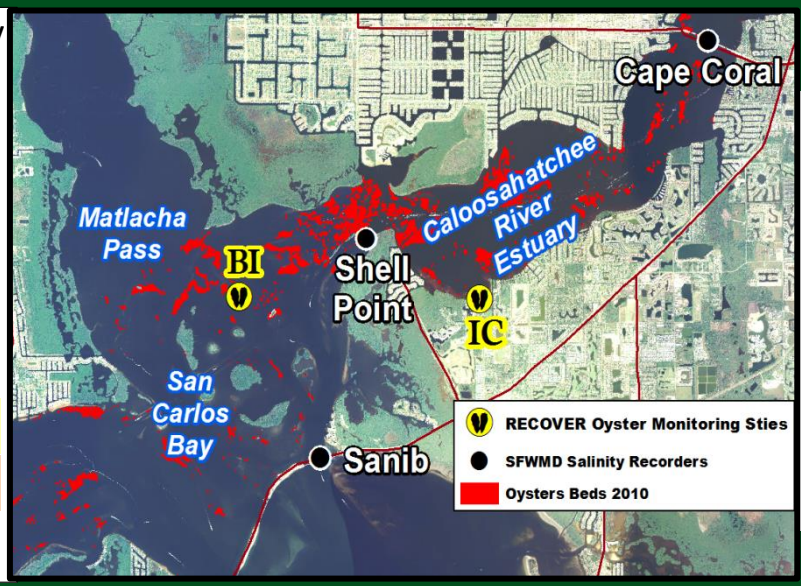


December 8, 2014



Caloosahatchee Estuary Oysters





Spat (avg. # / shell)

Salinity

Contents lists available at ScienceDirect

Ecological Modelling

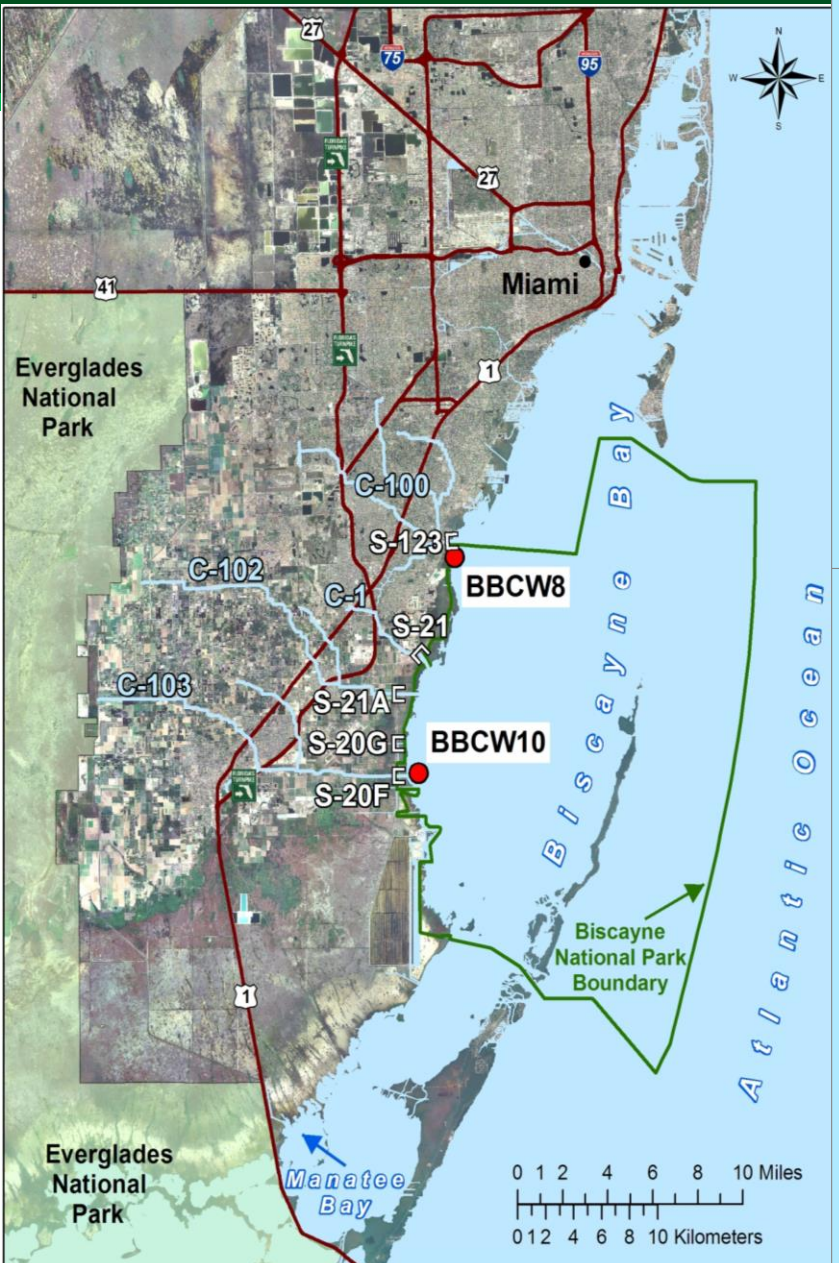
journal homepage: www.elsevier.com/locate/ecolmodel

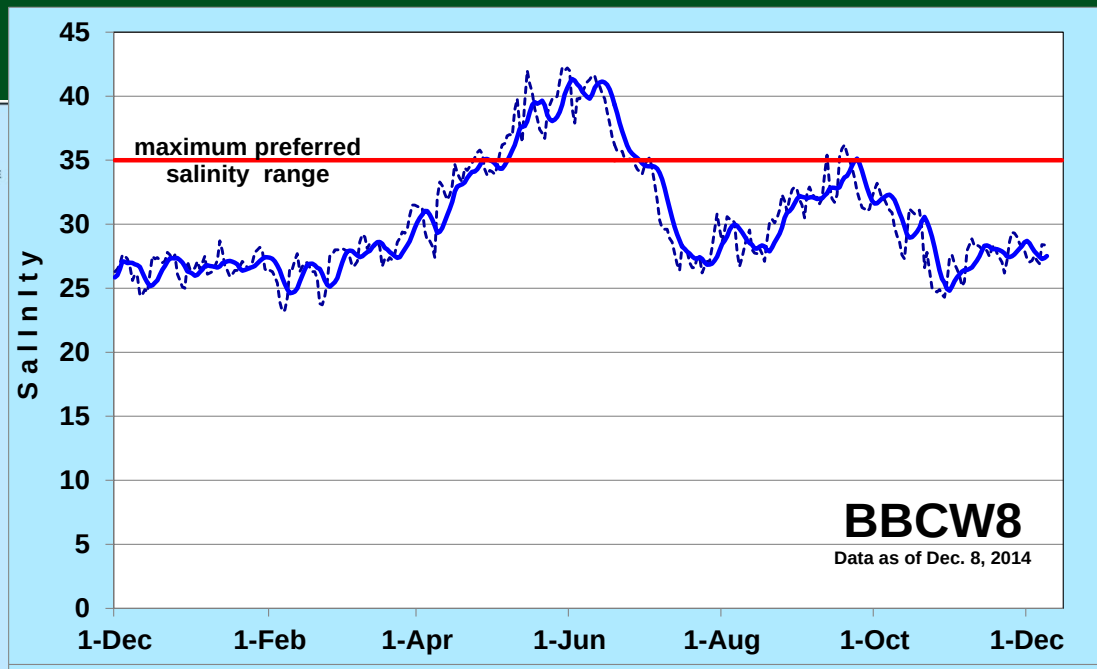
The application of oyster and seagrass models to evaluate alternative inflow scenarios related to Everglades restoration

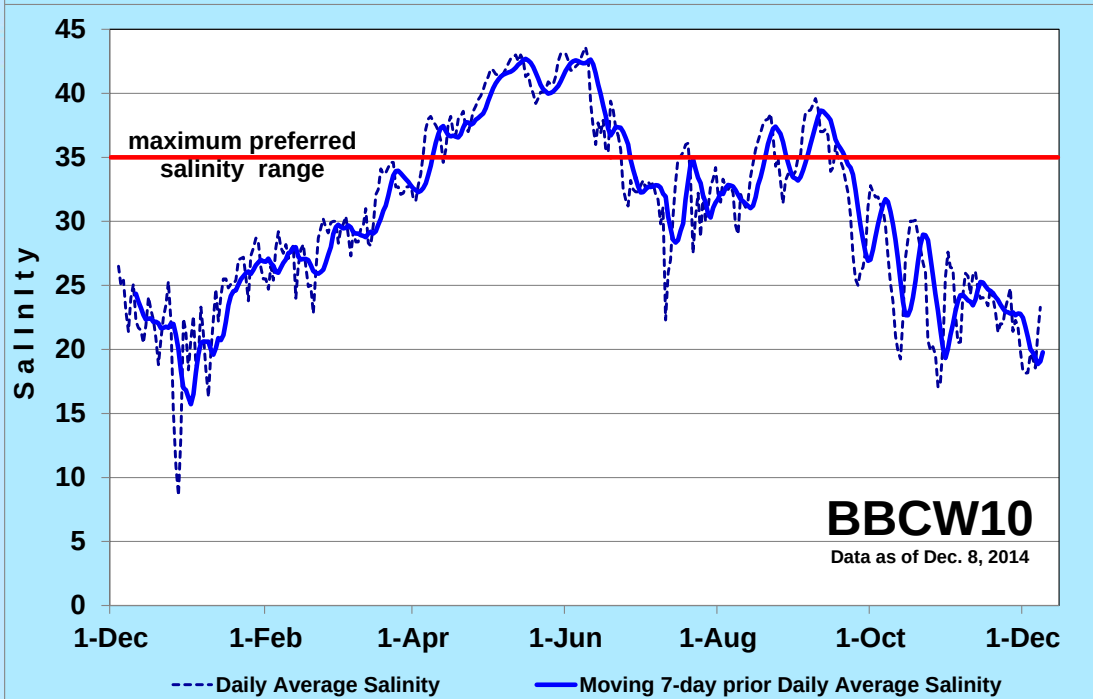
Christopher Buzzelli *, Patricia Gorman, Peter H. Doering, Zhiqiang Chen, Yongshan Wan

South Florida Water Management District, 3301 Gun Club Road, West Palm Beach, FL 33406, United States

Biscayne Bay Salinity

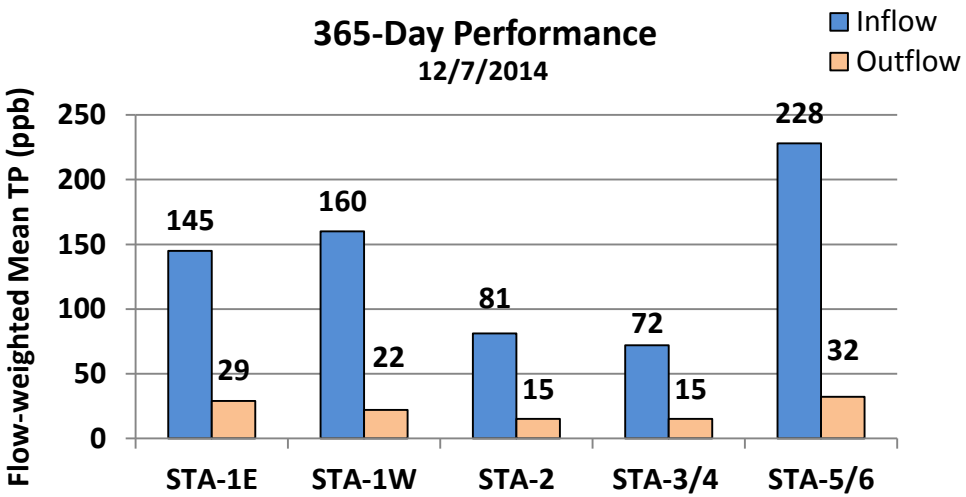


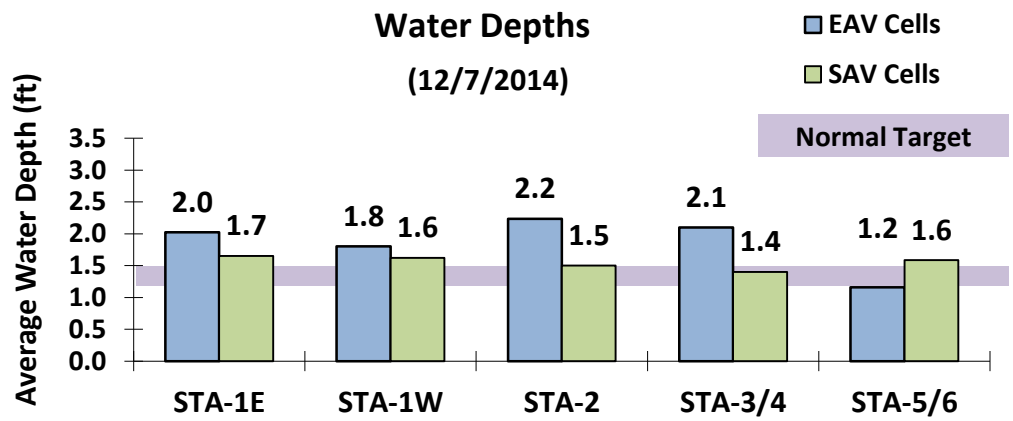




Stormwater Treatment Areas (STAs) Current Conditions

- Continue Lake Okeechobee regulatory releases to the STAs
  - ~241,000 ac-ft treated (May 1 – Dec. 1 , 2014)
  - Current deliveries to STA-1E, STA-1W, STA-2 & STA-3/4
  - Staff continues to monitor STA vegetation & performance
  - Dry Season Low-flow deliveries to STA-3/4 Western Flow-way in support of modeling efforts for Flow Equalization Basin operation
- STA cells are at or above target water depths

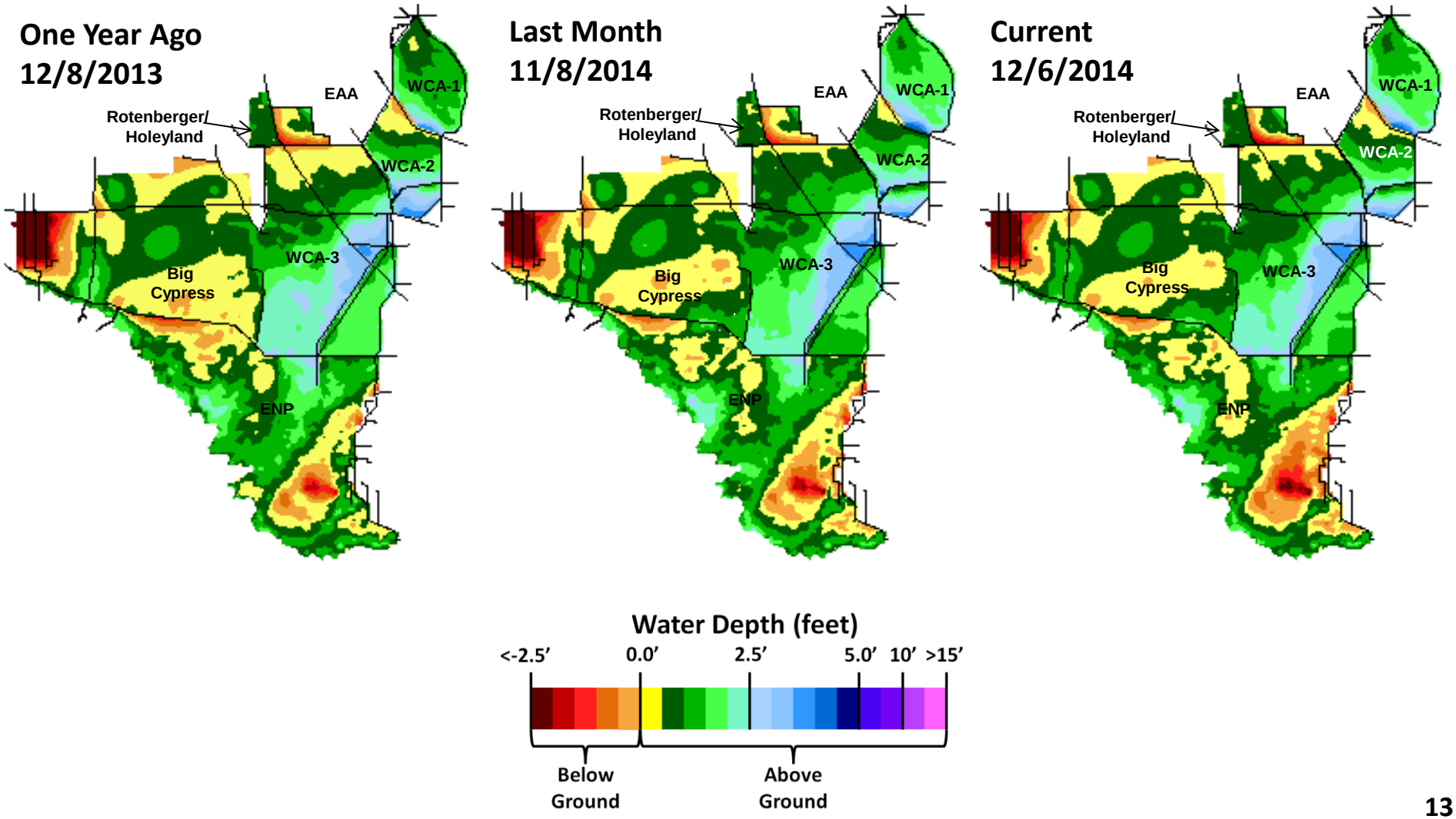




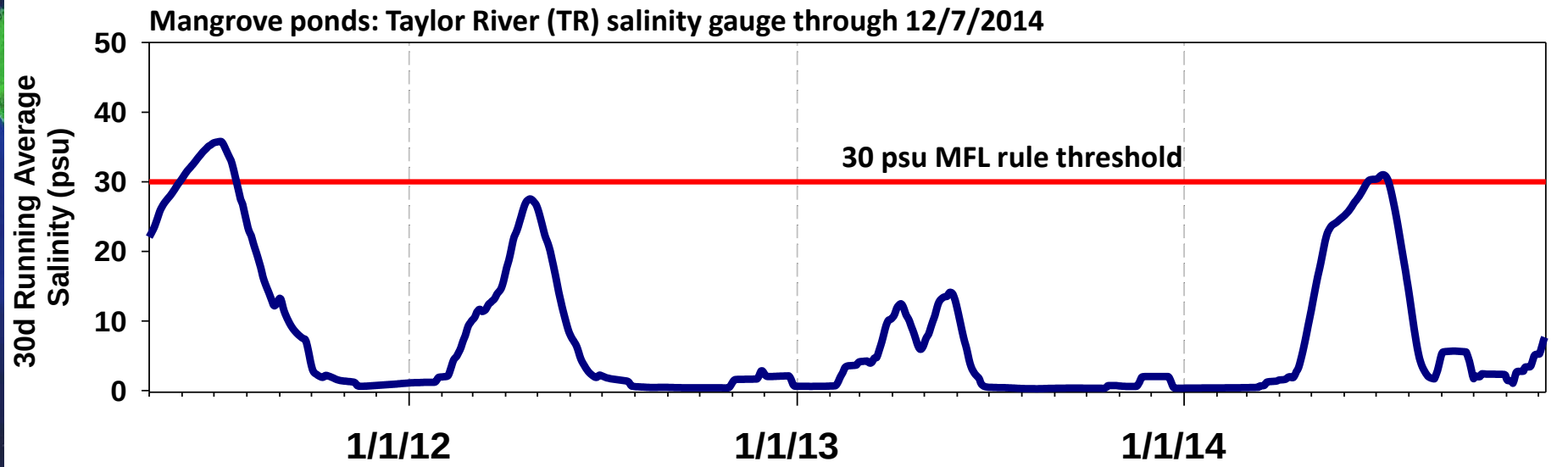
STA-5/6 Cell 5A excluded due to sensor problems .

Preliminary data shown

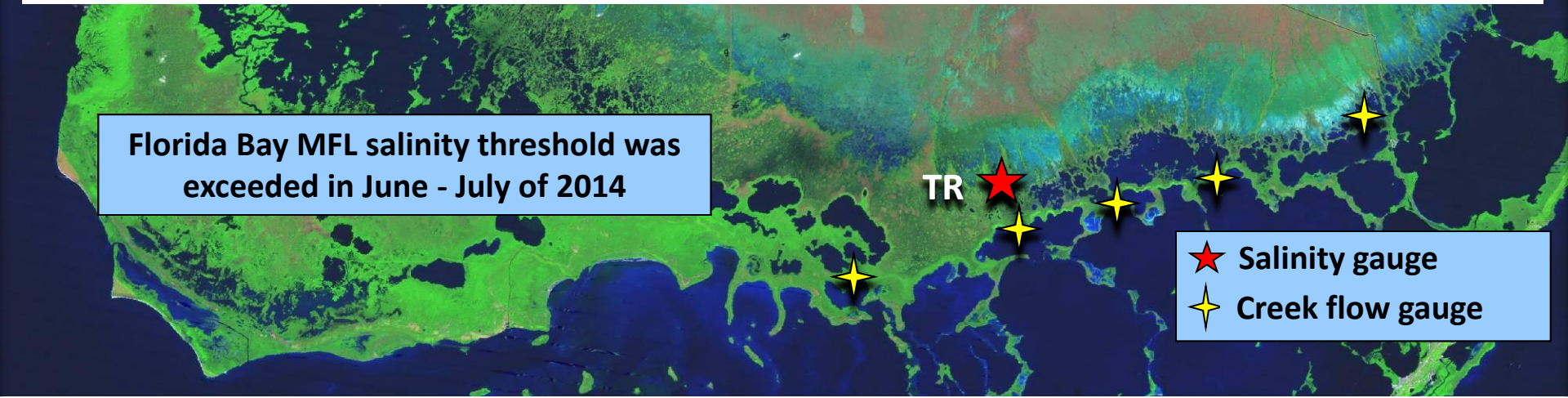
Greater Everglades
Water Depth Monthly Snapshots



Florida Bay Salinity Update



Florida Bay MFL salinity threshold was exceeded in June - July of 2014



Thank You!