

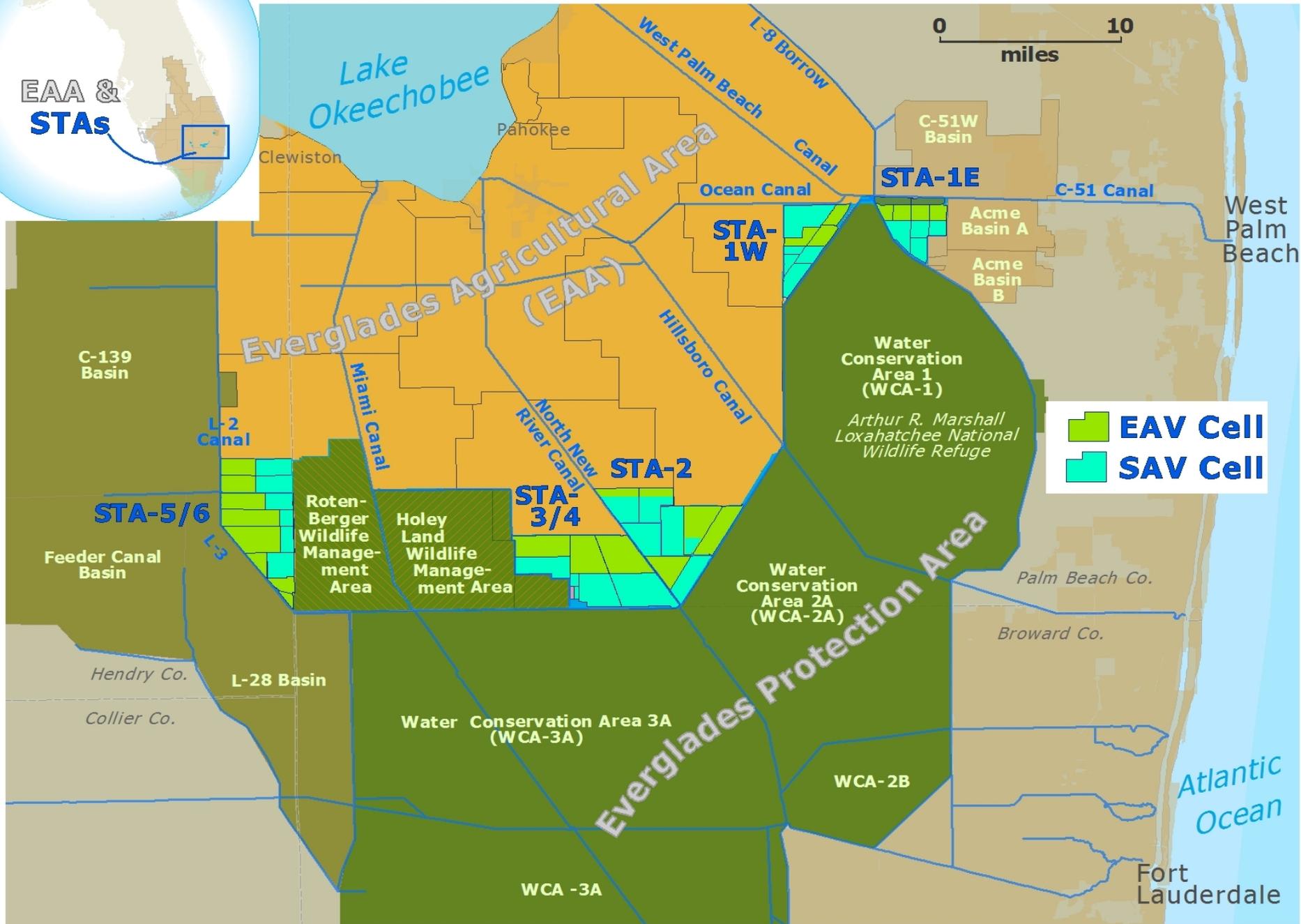
Quarterly Communications Meeting on the Long-Term Plan  
for Achieving Water Quality Goals  
for Everglades Protection Area Tributary Basins  
May 20, 2014

# STA Vegetation Update – Establishment and Maintenance of SAV Cells

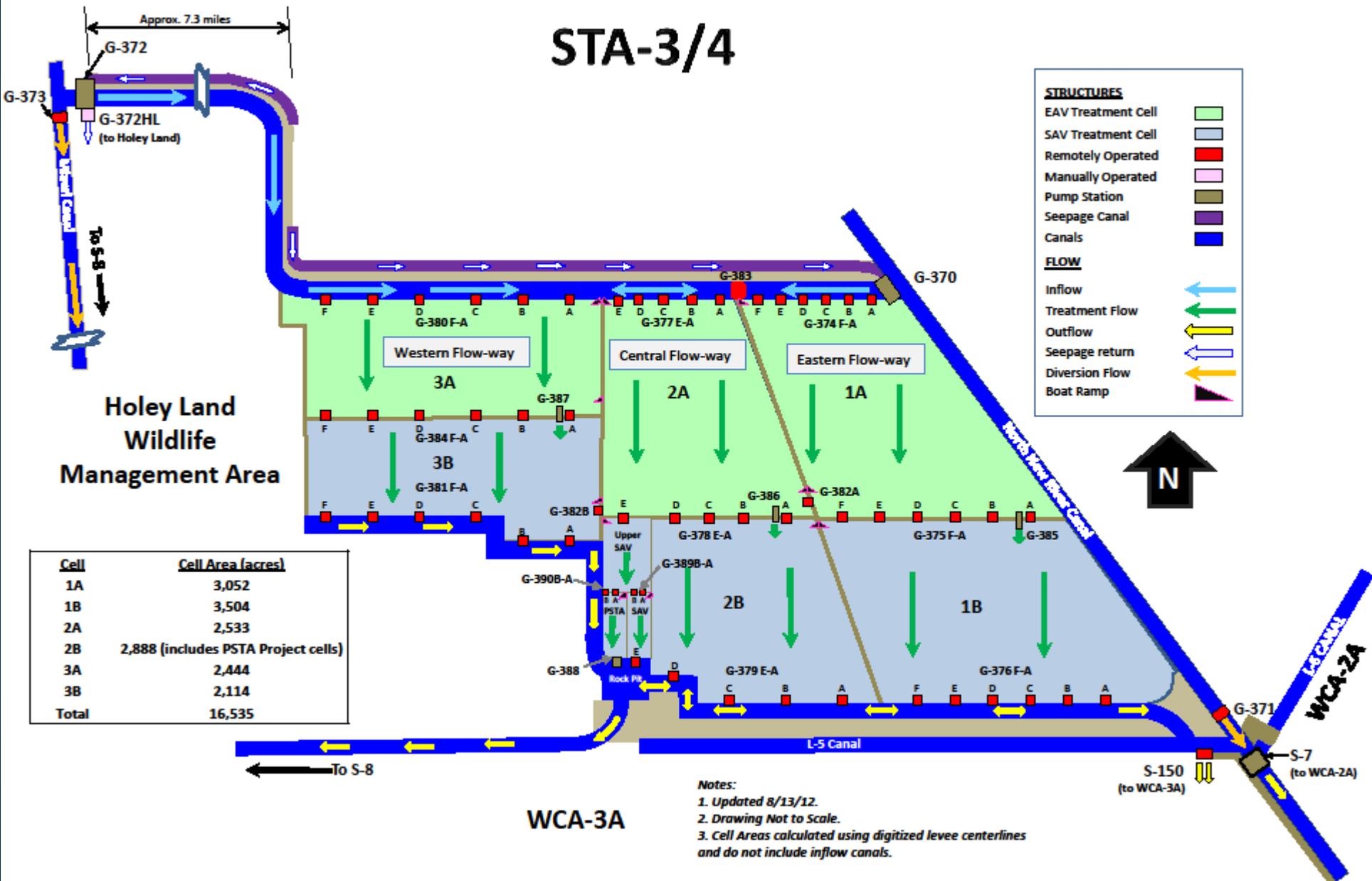
Lou Toth  
Principal Ecologist  
Vegetation Management Section  
South Florida Water Management District



EAA &  
STAs



# STA-3/4



**STRUCTURES**

- EAV Treatment Cell
- SAV Treatment Cell
- Remotely Operated
- Manually Operated
- Pump Station
- Seepage Canal
- Canals

**FLOW**

- Inflow
- Treatment Flow
- Outflow
- Seepage return
- Diversion Flow
- Boat Ramp

Cell	Cell Area (acres)
1A	3,052
1B	3,504
2A	2,533
2B	2,888 (includes PSTA Project cells)
3A	2,444
3B	2,114
<b>Total</b>	<b>16,535</b>

**Notes:**

1. Updated 8/13/12.
2. Drawing Not to Scale.
3. Cell Areas calculated using digitized levee centerlines and do not include inflow canals.





# Phosphorus Uptake and Removal in SAV Cells

- Water column uptake
- Attached periphyton
- Co-precipitation of calcium and phosphorus
- Recalcitrant floc and sediment accumulation



2004/05/18



# SAV Inoculation





CUMMINS





# Incremental Conversion

- Aerial Herbicide Treatments
- Inoculations
- STA 3/4 (Cell 1B), Cell 3B of STA 5, and Cells 2, 5, 6 and 8 of STA 2











11/19/2009







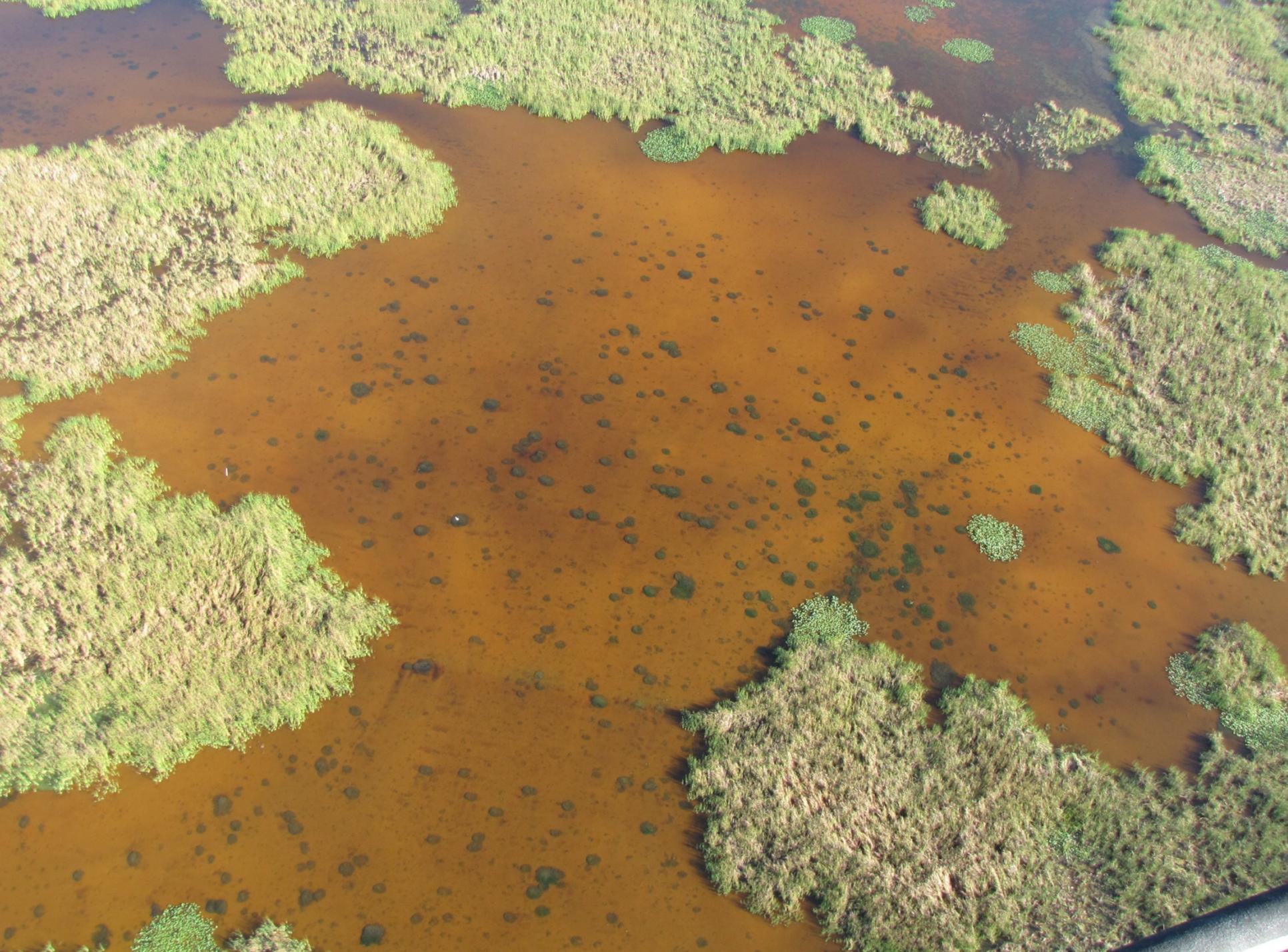








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# SAV Cell Management Challenges

- Disturbances
- Herbivory
- Life Cycle Phenomena



## Functional Redundancy of a Mixed Marsh

