

The background of the slide is a photograph of a sunset over the ocean. The sky is a mix of blue and orange, with a rainbow visible on the left side. The water is dark blue with some whitecaps.

Requests for  
Modifications to  
Settlement  
Agreement Mandated  
Monitoring  
at Three Structures  
and a Preview of  
Future Requests

TOC 10/18/05

# Four Areas of Change

- NECP permit modification eliminates monitoring at three structures.

## Preview of future requests

- NECP permit modification eliminates 16 parameters at 26 stations.
- NECP permit modification at S9 and S9A
- Eliminate Chlorophyll and Alkaline Phosphatase Analysis from 14 structures.



# Eliminate Monitoring at Three Structures

- S14
  - Superseded by S12s.
- S175 No longer an input to ENP
  - Closed under IOP
  - Levee degraded
  - Infrequently used (i.e. storm events)
- S332 No longer an input to ENP
  - Levee degraded
  - Infrequently used (i.e. storm events)

# NECP Parameter changes to 26 stations

Eliminated parameters:

- OPO4, NH4, NO2,
- Color, TSS, Alkalinity
- Cl, K, Ca, Mg, Fe, SiO2,
- Hardness, Cd, Cu, Zn

At:

- Acme1DS, G123, G94D, S140, S141, S144, S145, S146, S151, S174, S177, S178, S18C, S190, S31, S331, S333, S337, S34, S343A, S343B, S38, S39,
- S11A(S143), C123SR84(S339, S340), S12D(G346, G347, G71)



# NECP Standard Monitoring Set

- Physical Parameters BWF/M  
– (D.O., pH, T, Scond., Turbidity)
- Macronutrients BWF/M  
– (TP, TKN, NOX)
- SO<sub>4</sub> Q

# NECP Modifications at S9

- Physical parameters BWf/M
  - T, DO, SCond, pH, Turbidity,
  - ~~Color, TSS~~
- Nutrients ACF-weekly
  - TP, TKN, NOX
  - ~~NH<sub>4</sub>, OPO<sub>4</sub>, NO<sub>2</sub>~~
- Ions Q
  - SO<sub>4</sub>
  - ~~Alk, Cl, Na, K, Ca, Mg, Fe, SiO<sub>2</sub>~~
- Trace metals SA
  - ~~Cd, Cu, Zn, Hardness~~



# NECP Modifications at S9A

- Physical parameters BWf/M
  - T, DO, SCond, pH, Turbidity,
  - ~~– Color, TSS~~
- Nutrients
  - TP Wf/M
  - TKN, NOX BWf/M
  - ~~– NH<sub>4</sub>, OPO<sub>4</sub>, NO<sub>2</sub>~~
- Ions Q
  - ~~– Alk, Cl, Na, K, Ca, Mg, Fe, SiO<sub>2</sub>, SO<sub>4</sub>~~

# Chlorophyll and Alkaline Phosphatase Activity (APA)

- Currently monitored biweekly at 14 structures
  - S12A, S12B, S12C, S12D, S333, S175, S176, S177, S178, S18C, S332, S5A, Tambr105, US41-25.



# Chlorophyll Surface Water Measurements

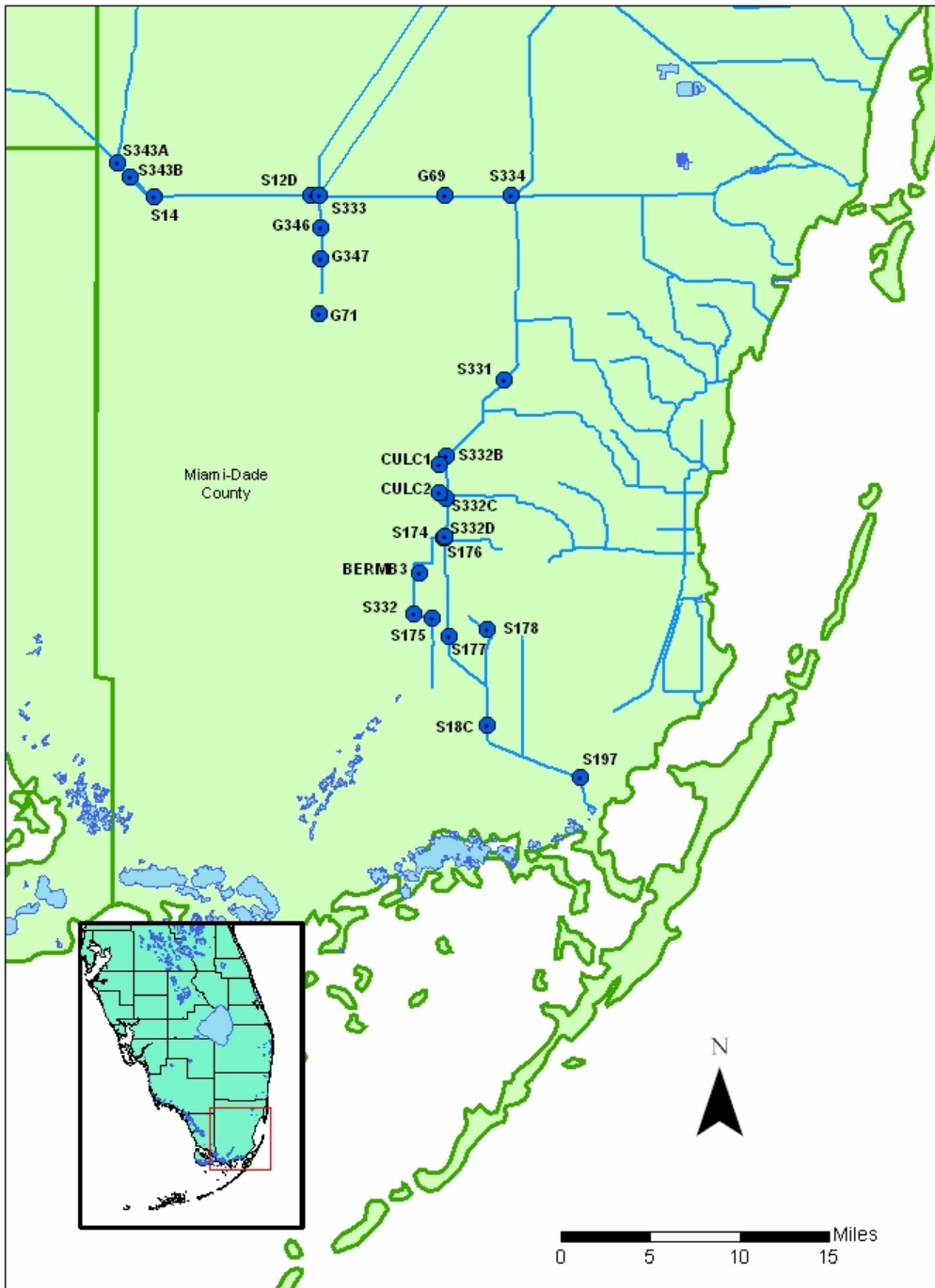
- As a measure of productivity it does not account for
  - periphyton
  - rooted macrophytes
  - floating macrophytes
  - local vs imported sources

# APA Surface Water Measurements

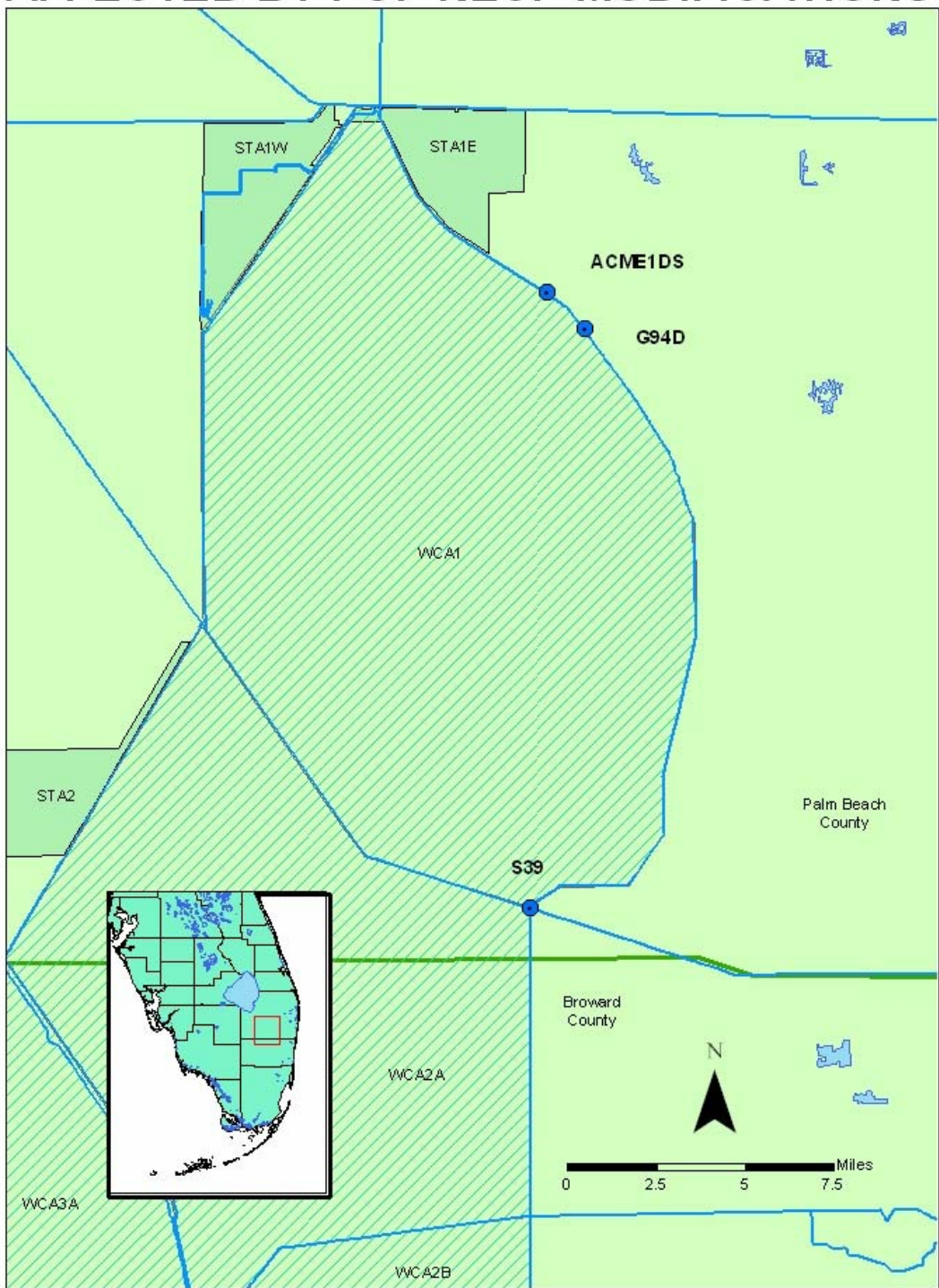
- Has not transitioned from a research parameter to a monitoring tool, no applicable standard.
- Ongoing research shows APA to be influenced by a wide variety of factors including substrate, algal species, OPO<sub>4</sub> recycling rate, etc.
- May be more applicable in the marsh where influencing factors can be characterized extensively.
- Usefulness at structures debatable.



# ENP SAMPLING LOCATIONS AFFECTED BY POP NECP MODIFICATIONS

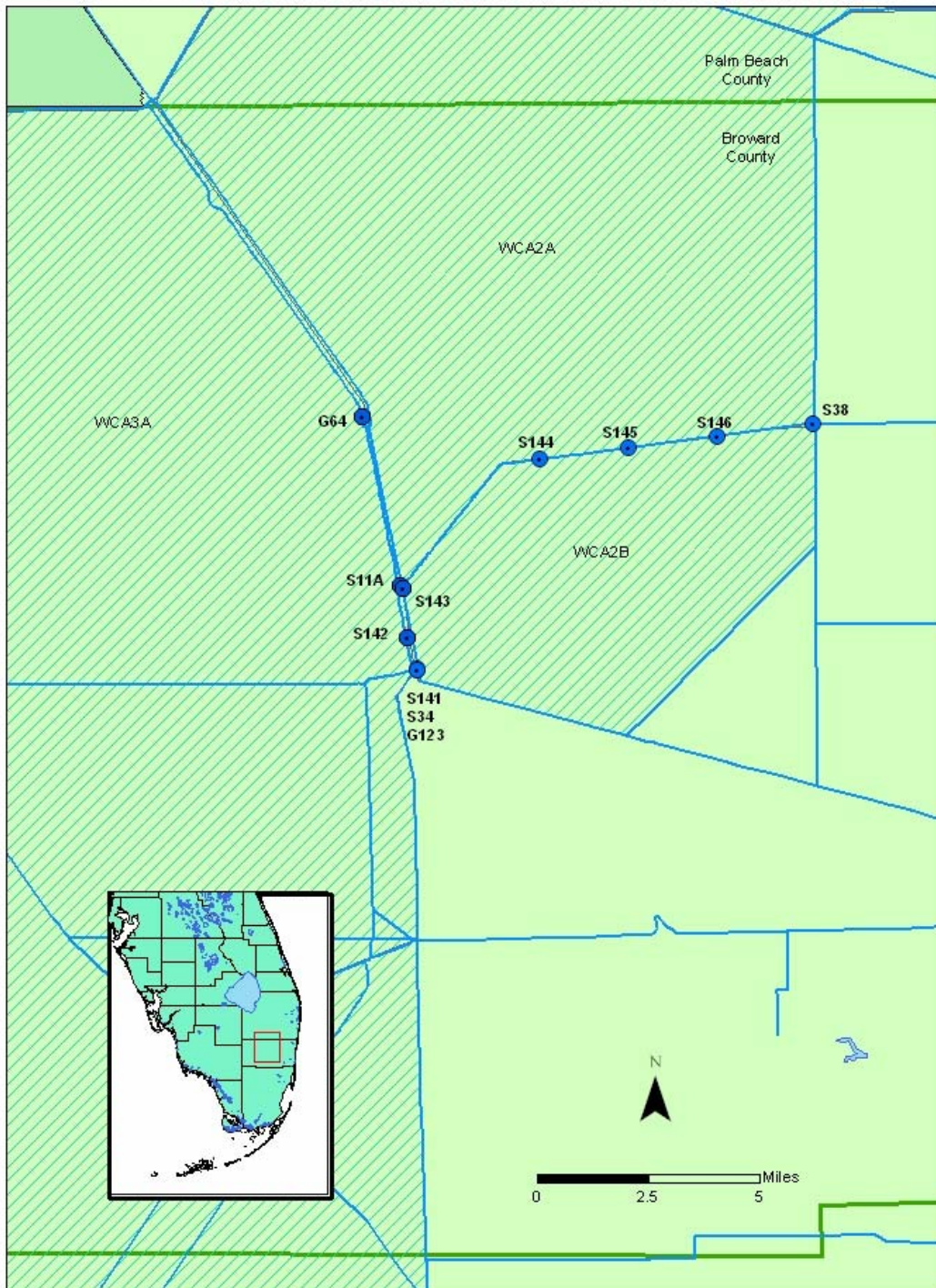


# WCA 1 SAMPLING LOCATIONS AFFECTED BY POP NECP MODIFICATIONS





# WCA 2 SAMPLING LOCATIONS AFFECTED BY POP NECP MODIFICATIONS





# WCA 3 SAMPLING LOCATIONS AFFECTED BY POP NECP MODIFICATIONS

