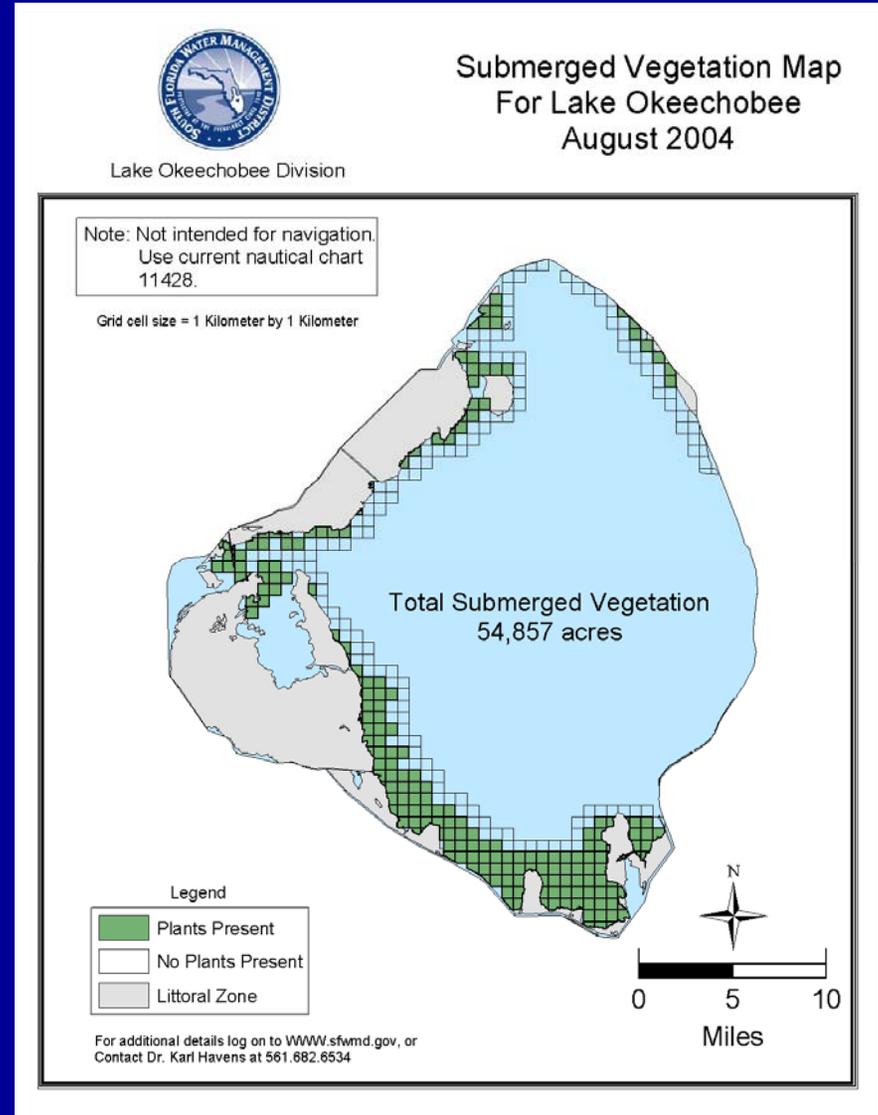


Lake Okeechobee Conditions

2004-2005

August 2004

- 54,857 acres of submerged aquatic vegetation (SAV).
- Most extensive coverage of SAV since annual mapping began in 1999.

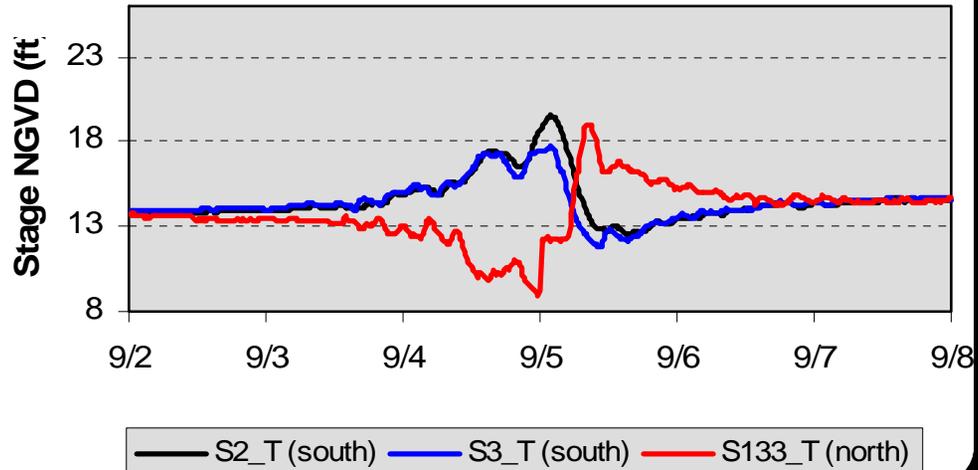


September 2004

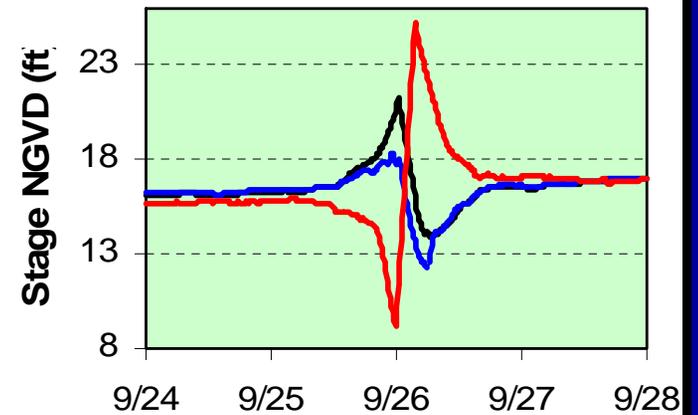
- Hurricanes Frances and Jeanne cross Lake Okeechobee
- Wind speeds reaching 80 mph during hurricane Frances and 78 mph during hurricane Jeanne.
- Seiches (storm surges) of 5.5 ft during Frances and 9 ft during Jeanne
- Increase of 6 ft. in Lake stage.

Seiches

Hurricane Frances [N-S transect]

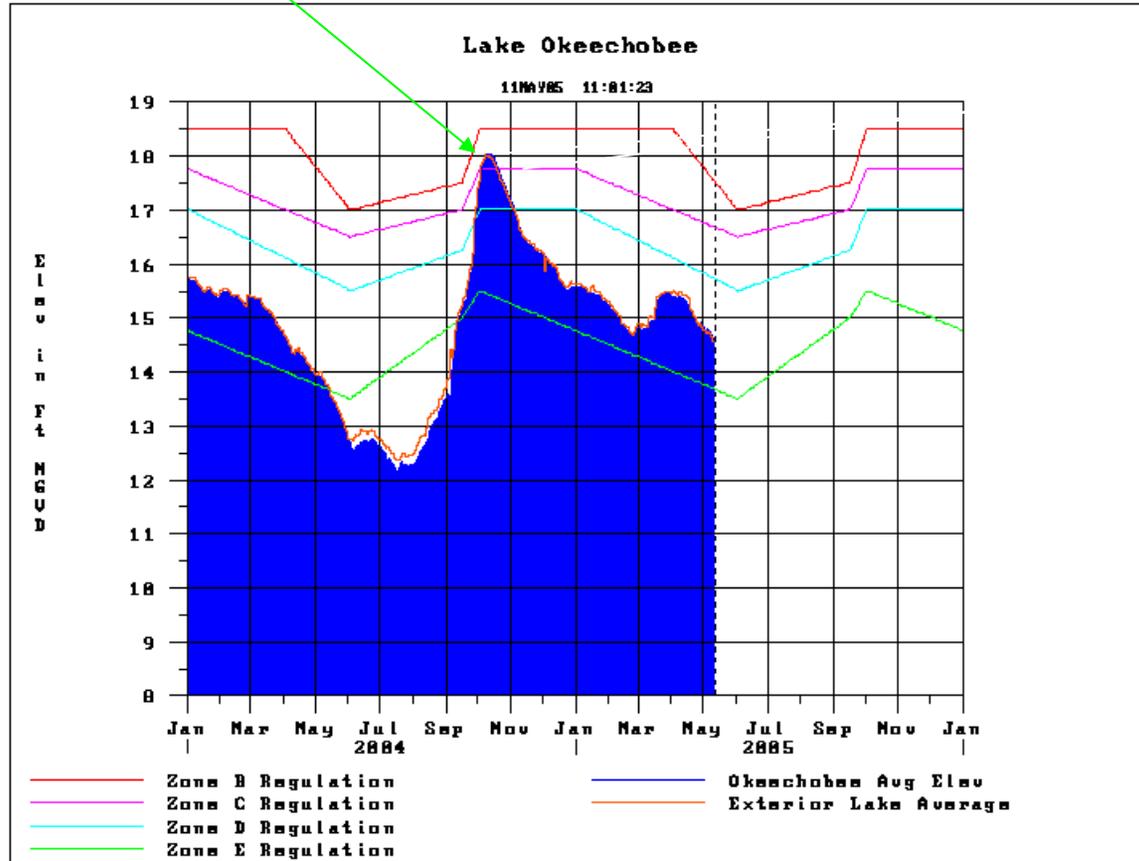


Hurricane Jeanne [N-S transect]



Hurricane impact

Lake Stage

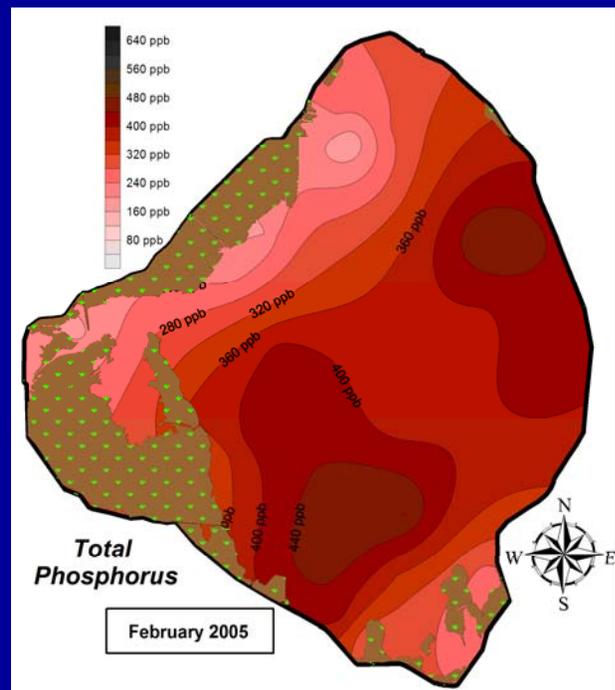
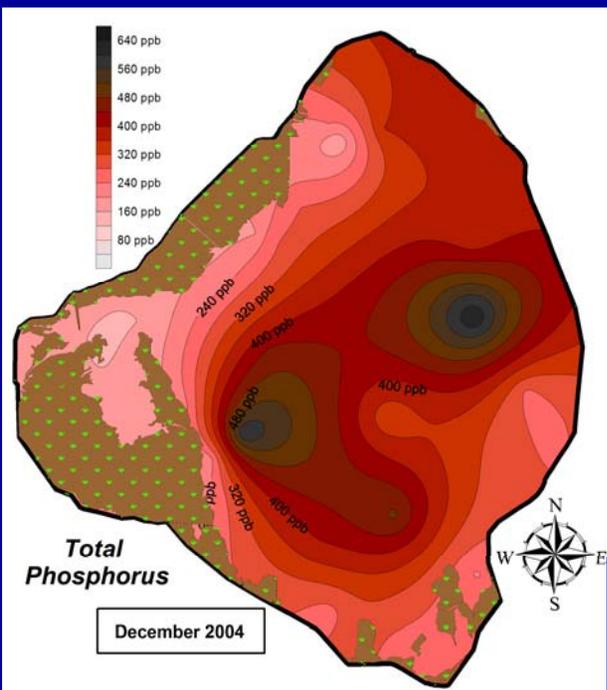
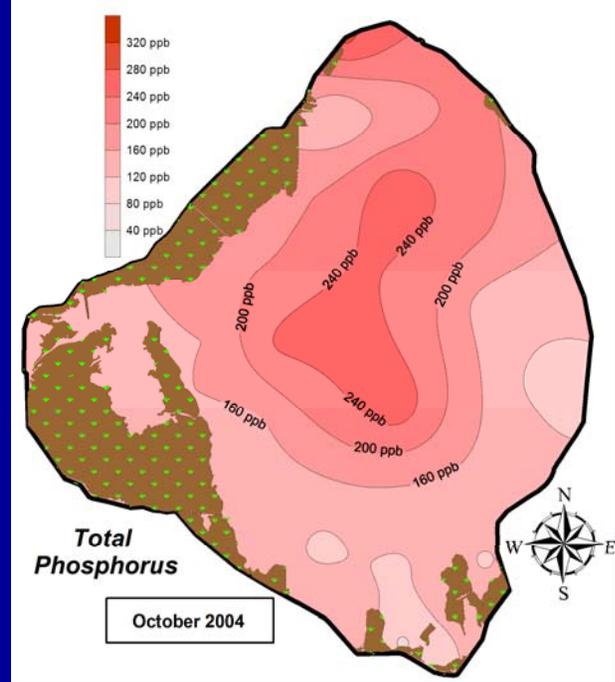
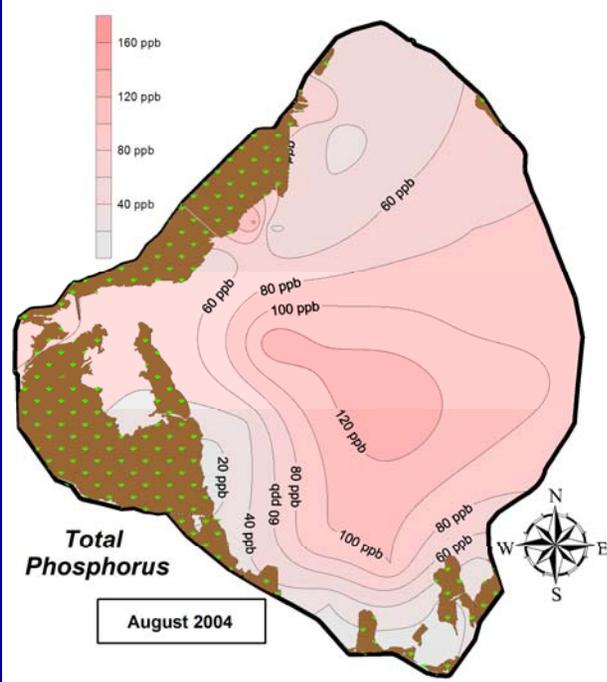


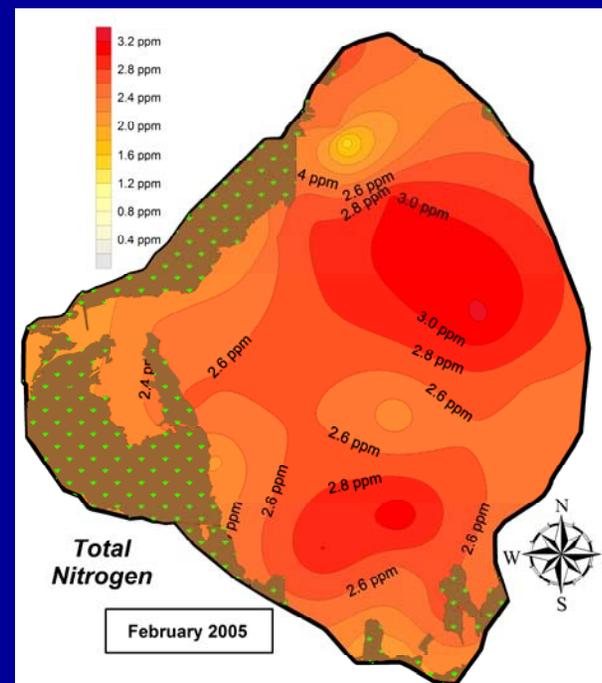
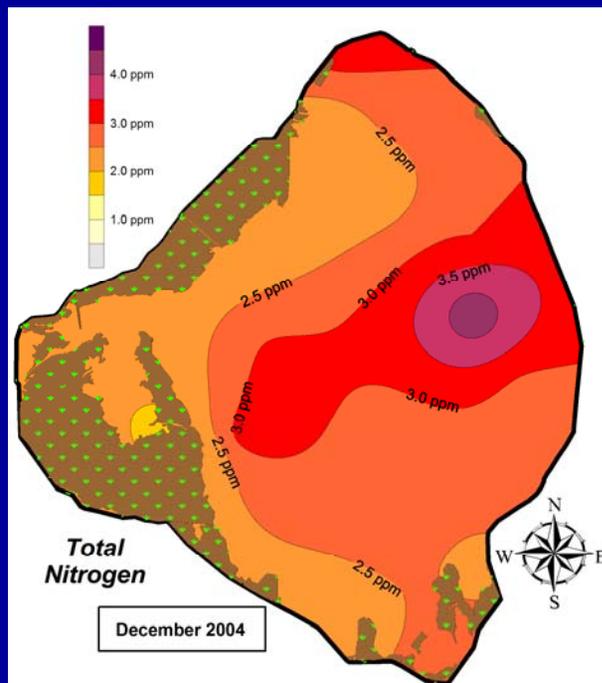
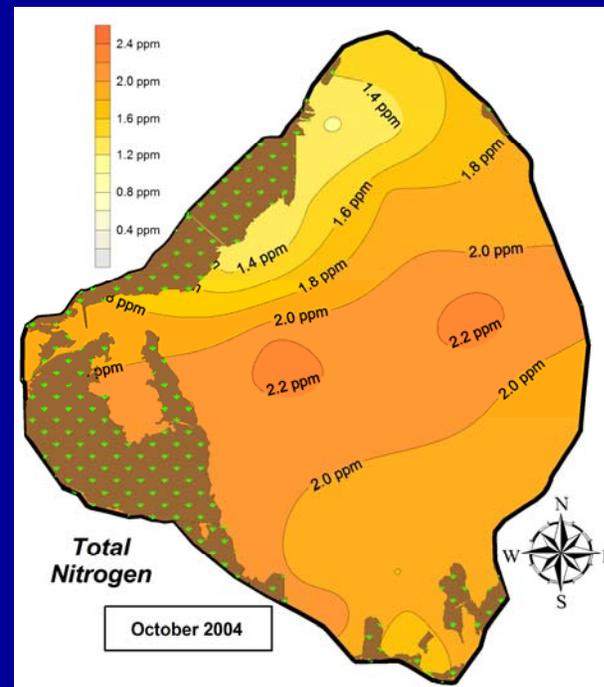
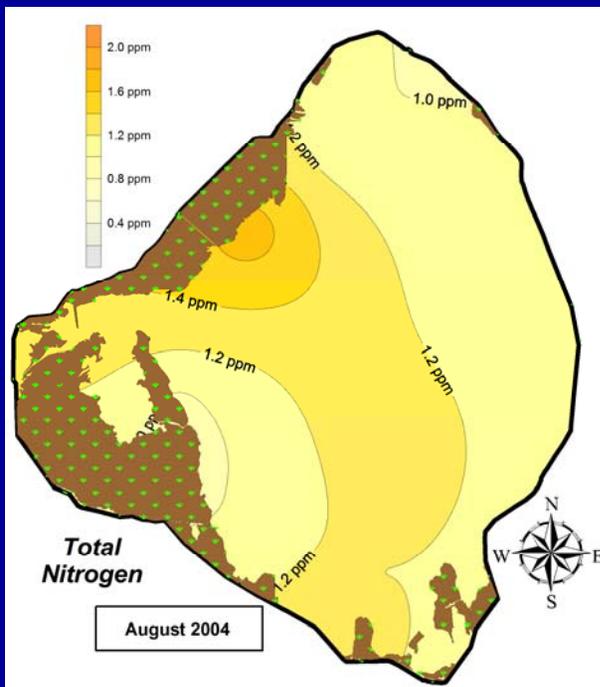


Immediate, Dramatic, Long Term Impacts on Water Quality

- Increased Turbidity
- Increased Total Phosphorus Concentrations
- Increased Total Nitrogen Concentrations







Water Quality Impacts

- Increased turbidity results in decreased light availability for SAV.
- Light penetration problems are intensified because suspended particles do not settle readily.
- Reduced light availability also impacted phytoplankton during the winter months.
- As turbidity issues resolve, high nutrient concentrations increase the likelihood of intense algal blooms this spring and summer.

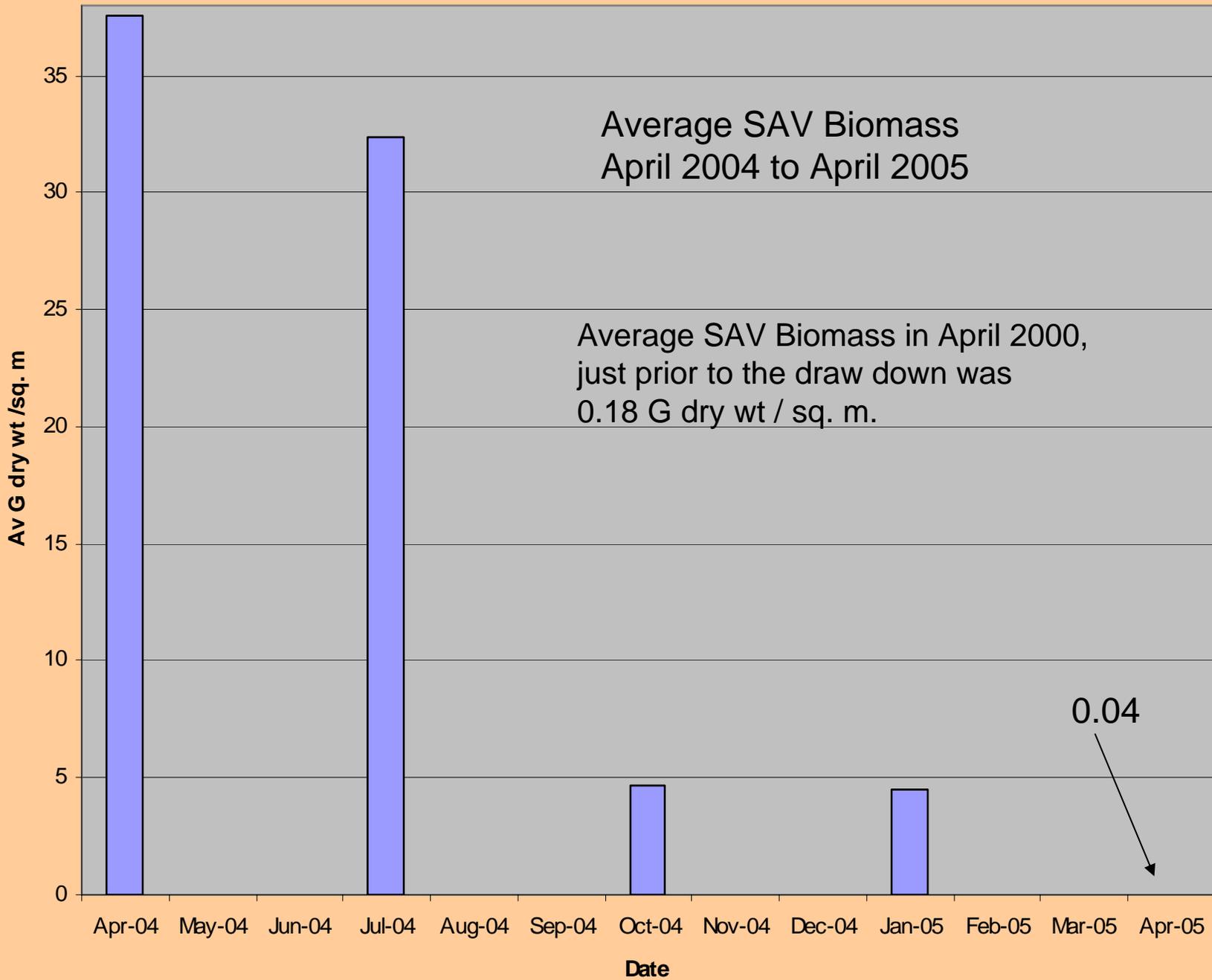
Settling Rate of Suspended Solids



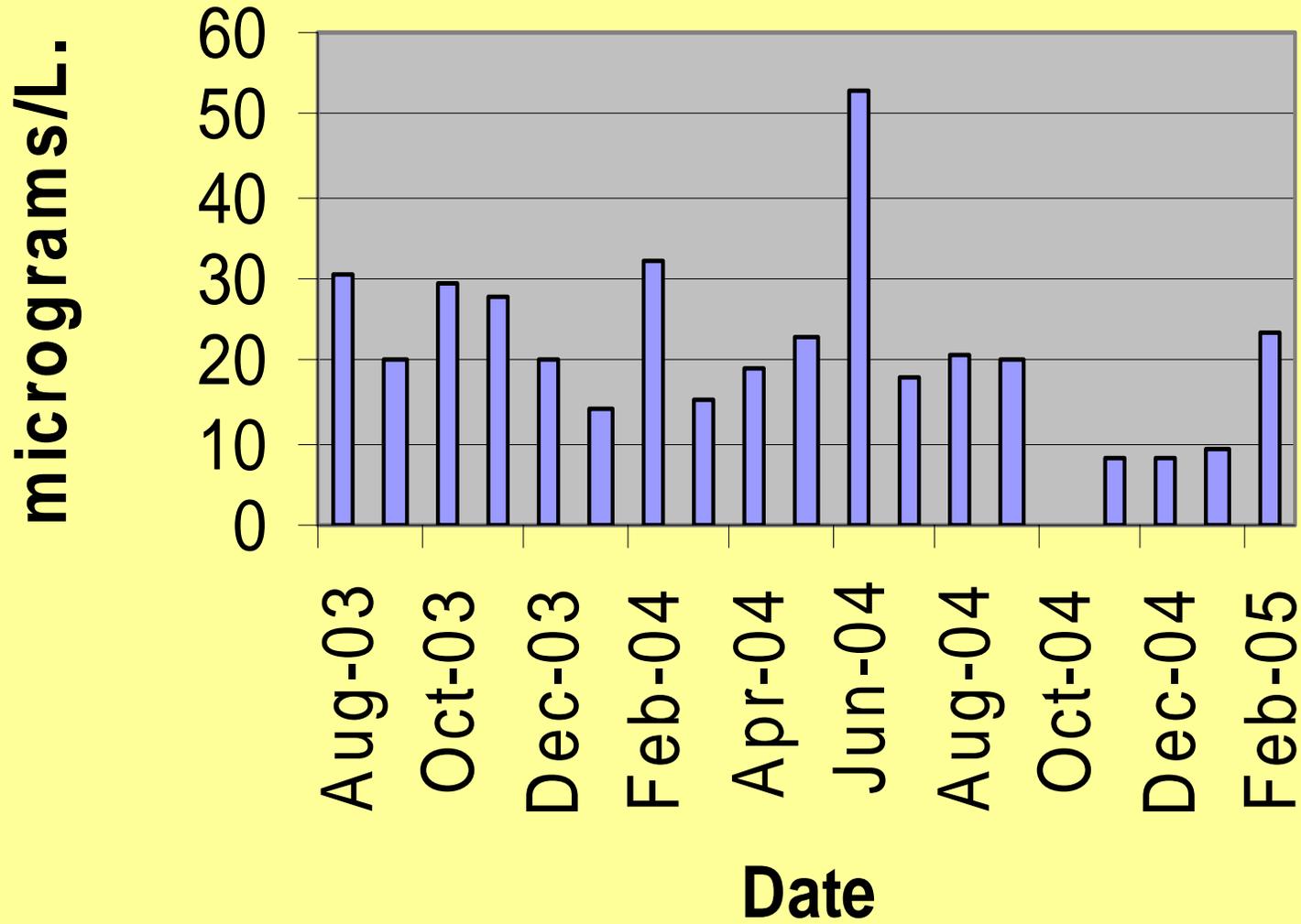
Day 0



Day 14



Average Chlorophyll



Algal Bloom



May 17, 2005

Prognosis, June to December 2005

- Higher than environmentally desirable lake levels.
- Continued elevated turbidity and Phosphorus levels.
- Persistence of algal blooms through the spring and summer months.
- Continued decline in SAV distribution and density.
- Potential for extended severe impacts on the Lake Okeechobee fishery and on other wildlife.