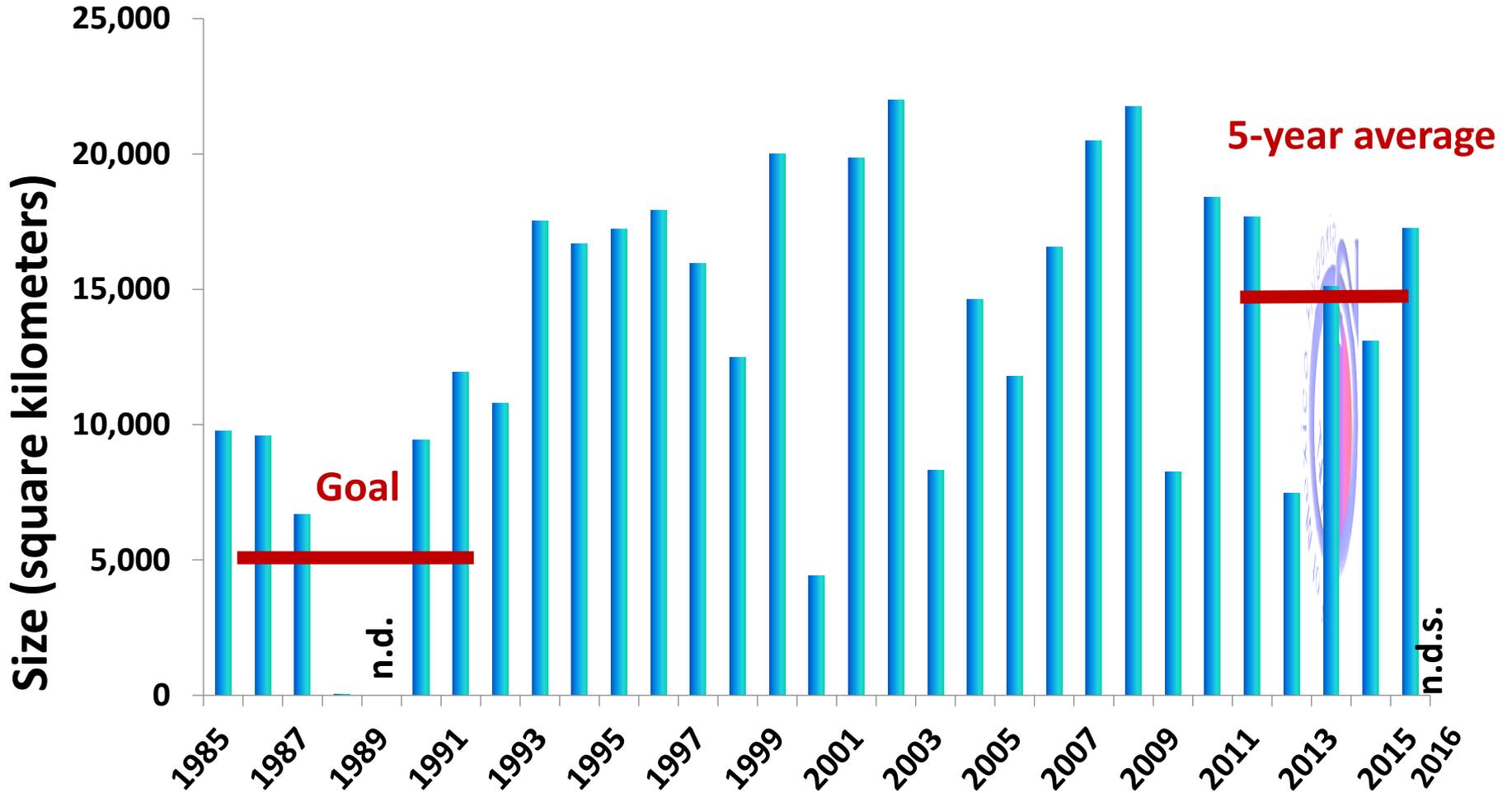


**6th Annual NOAA/NGI Hypoxia Research Coordination Workshop
Establishing a Cooperative Hypoxic Zone Monitoring Program**

**12-13 September 2016
Stennis Space Center, MS**

**Mid-Summer Ship Survey
Nancy Rabalais
LSU/LUMCON**

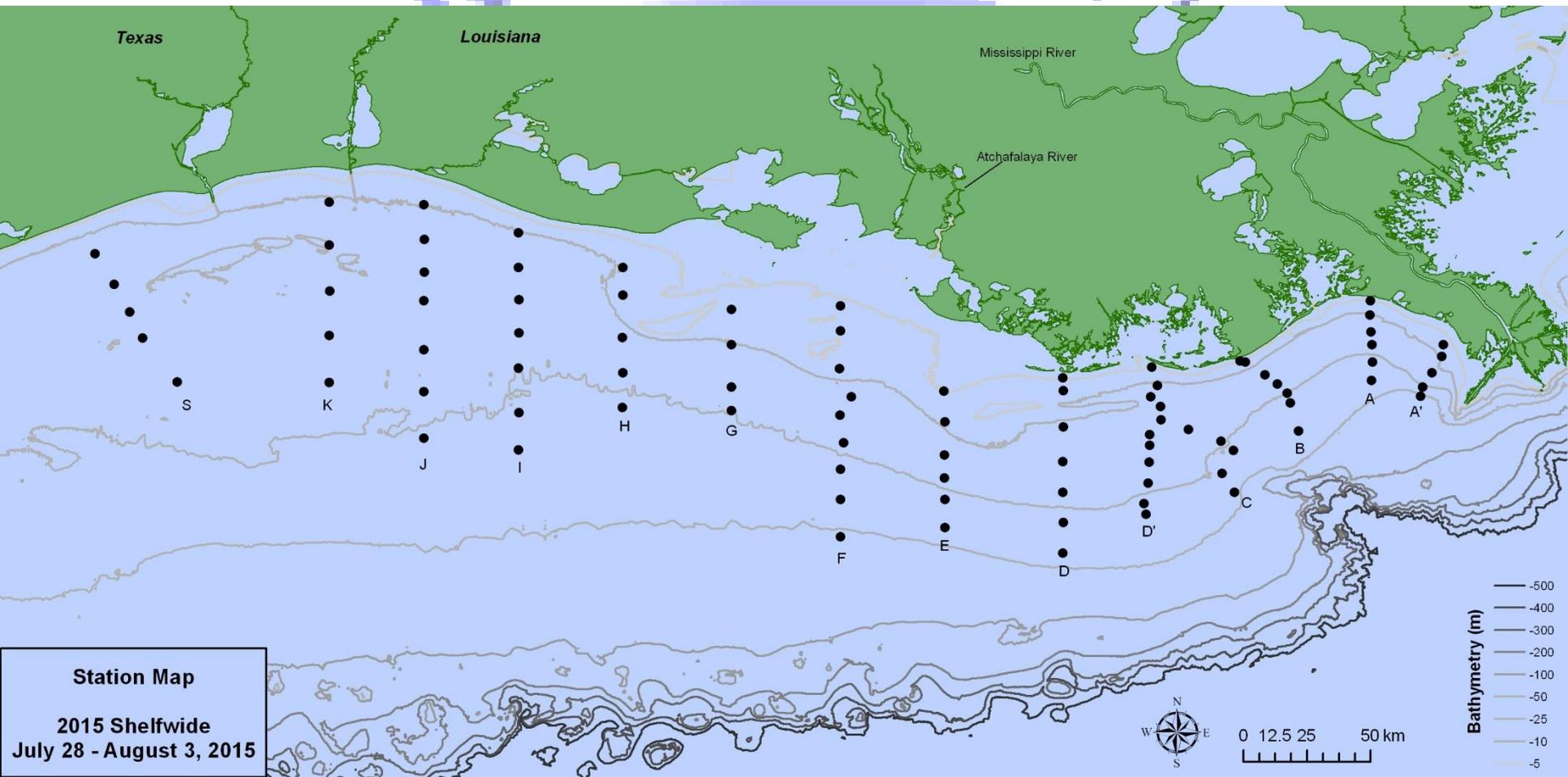
Size of bottom-water hypoxia in mid-summer

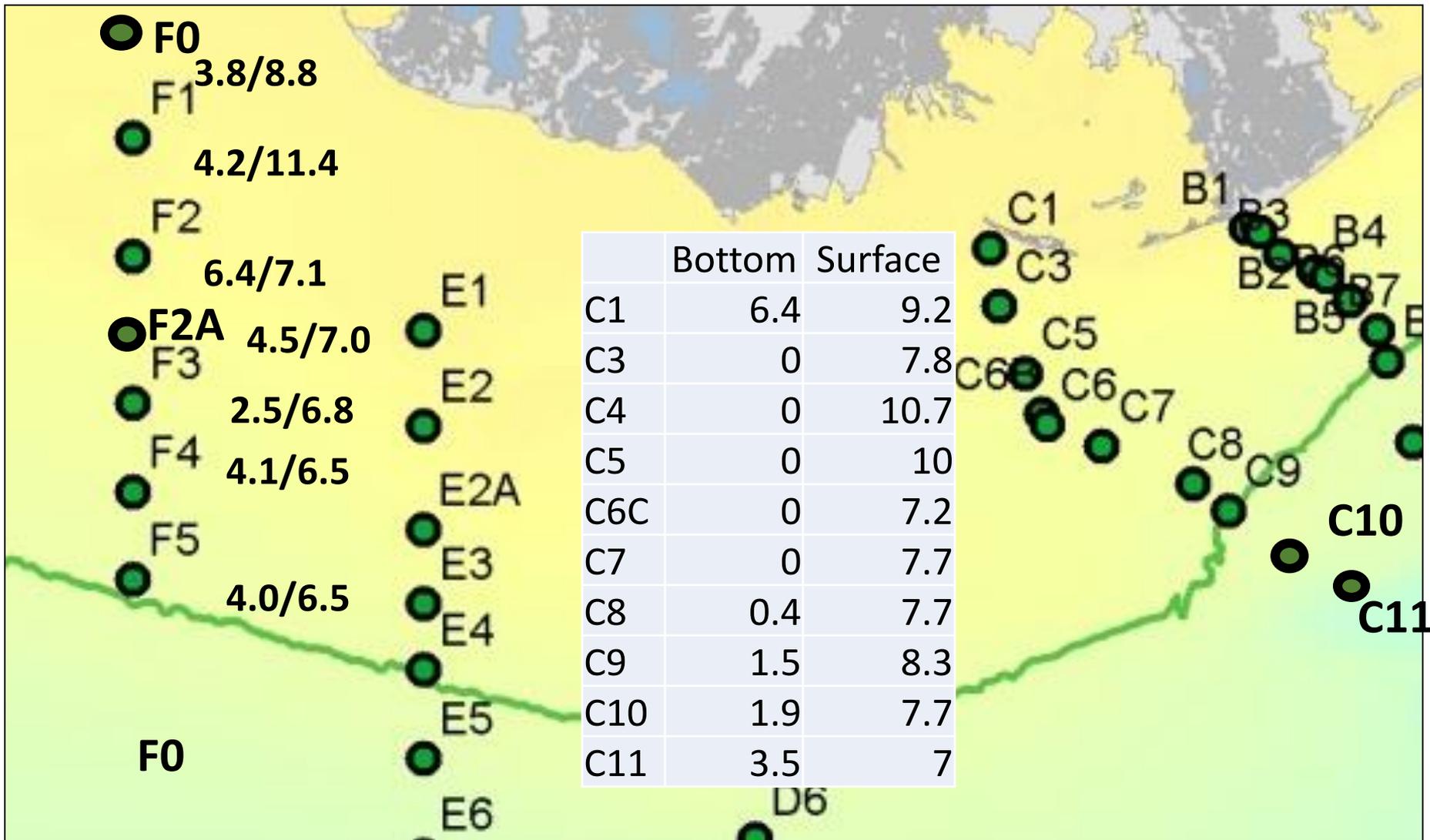


Data source: Nancy N. Rabalais, LUMCON, and R. Eugene Turner, LSU
Funding sources: NOAA Center for Sponsored Coastal Ocean Research
and U.S. EPA Gulf of Mexico Program

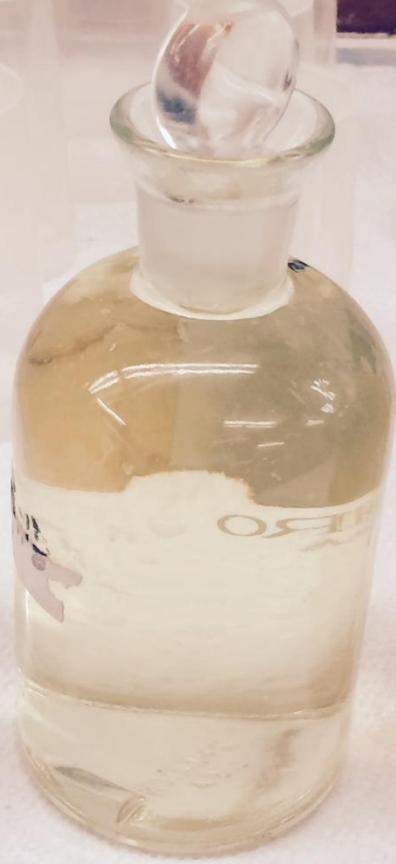
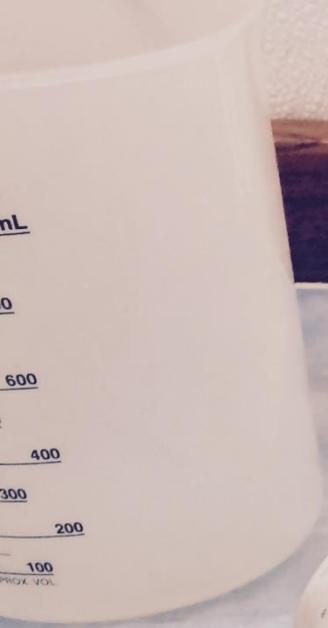


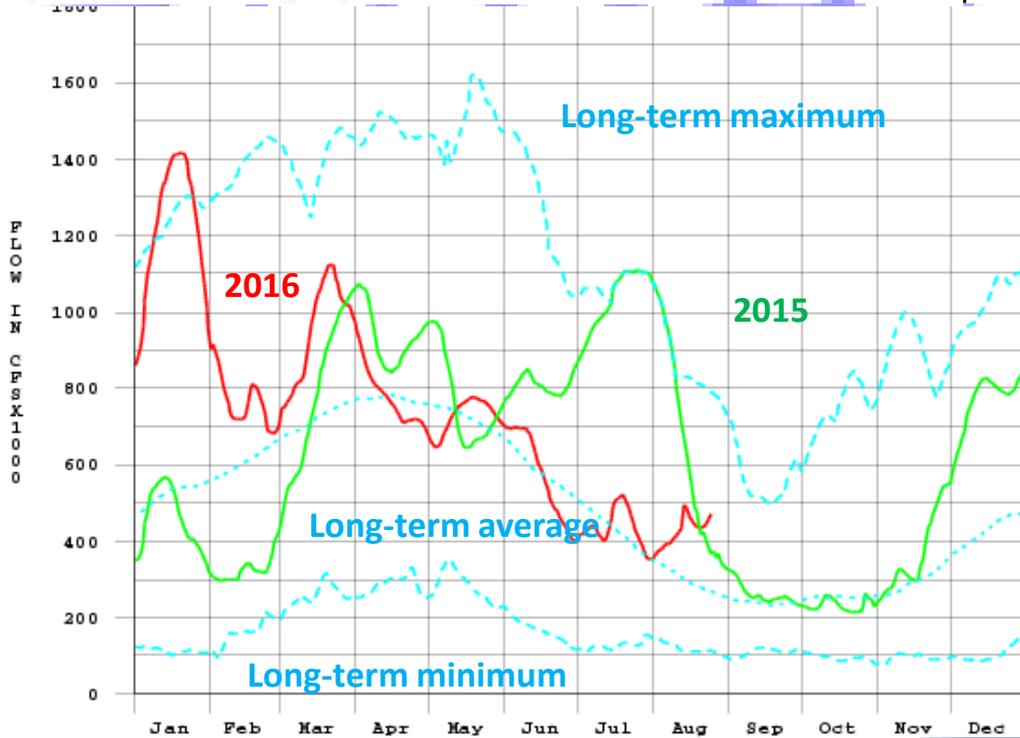
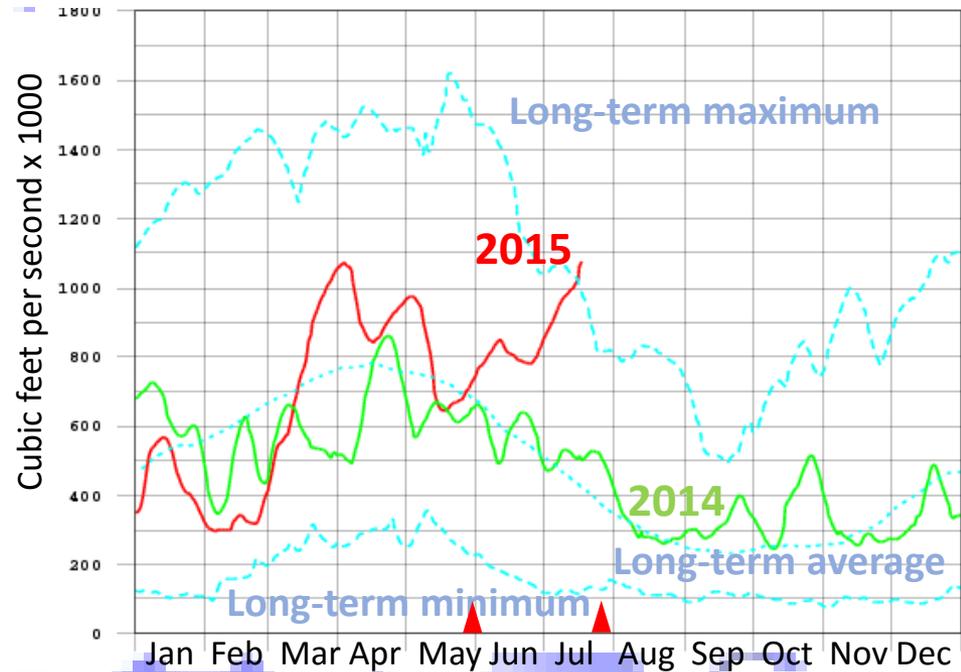
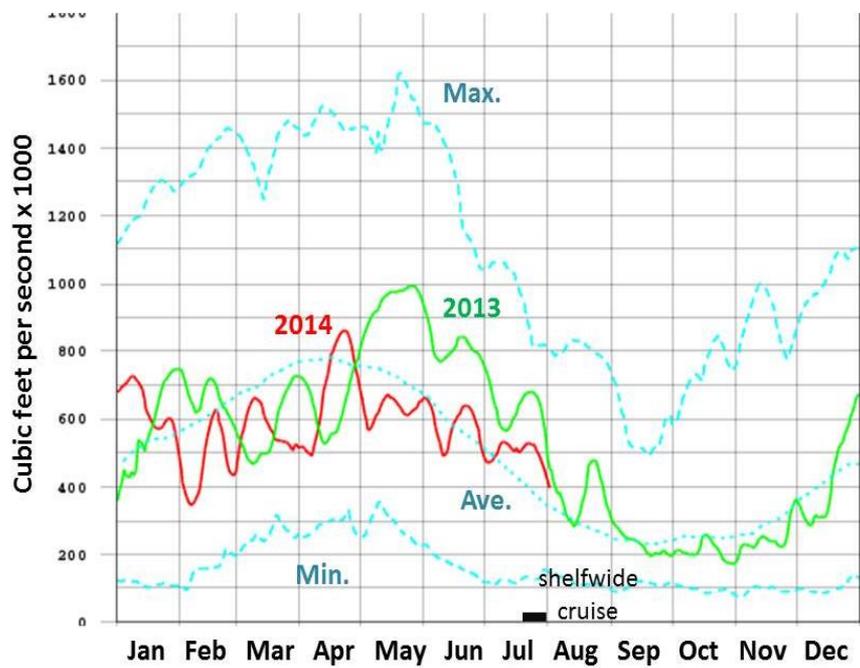
Mexico



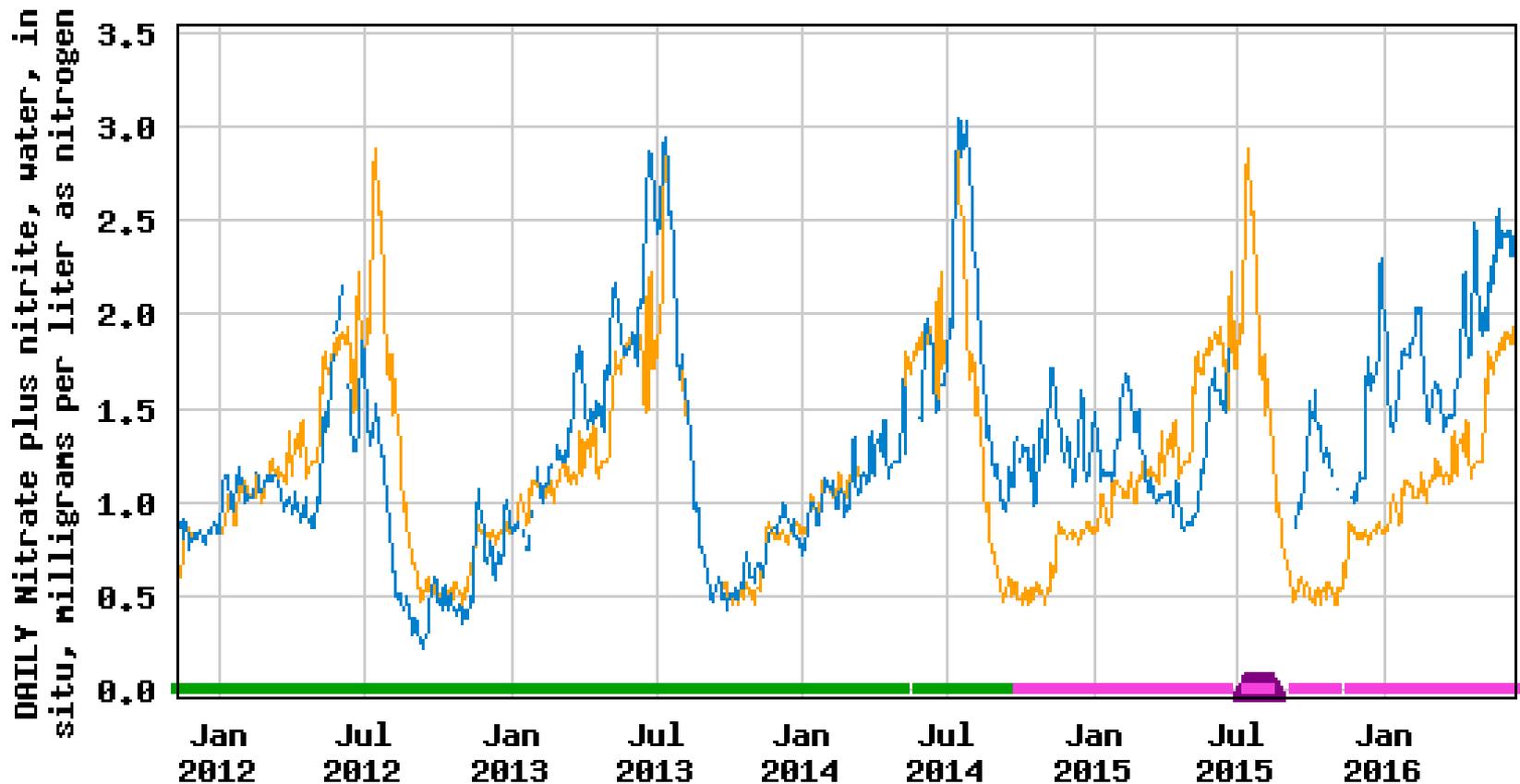


Bottom DO/Surface DO

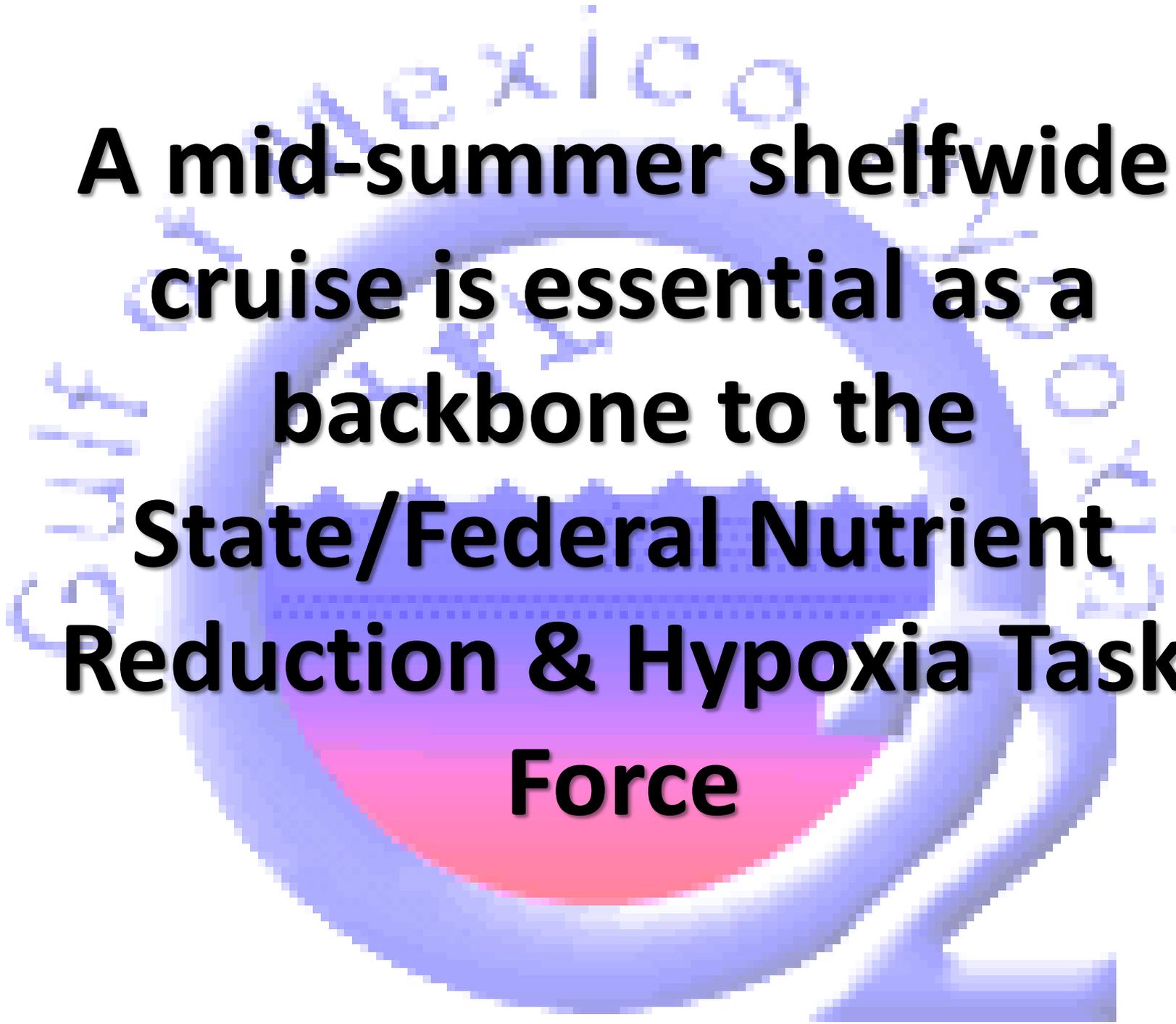




USGS 07374000 Mississippi River at Baton Rouge, LA



- Median daily statistic (1 year)
- Daily mean nitrate plus nitrite
- Period of approved data
- ▲ Equipment malfunction
- Period of provisional data



**A mid-summer shelfwide
cruise is essential as a
backbone to the
State/Federal Nutrient
Reduction & Hypoxia Task
Force**

- 
- **Timing approximately mid- to late July**
 - **Scheduled well in advance**
 - **Appropriate vessel**
 - **Standard Operating Procedures**