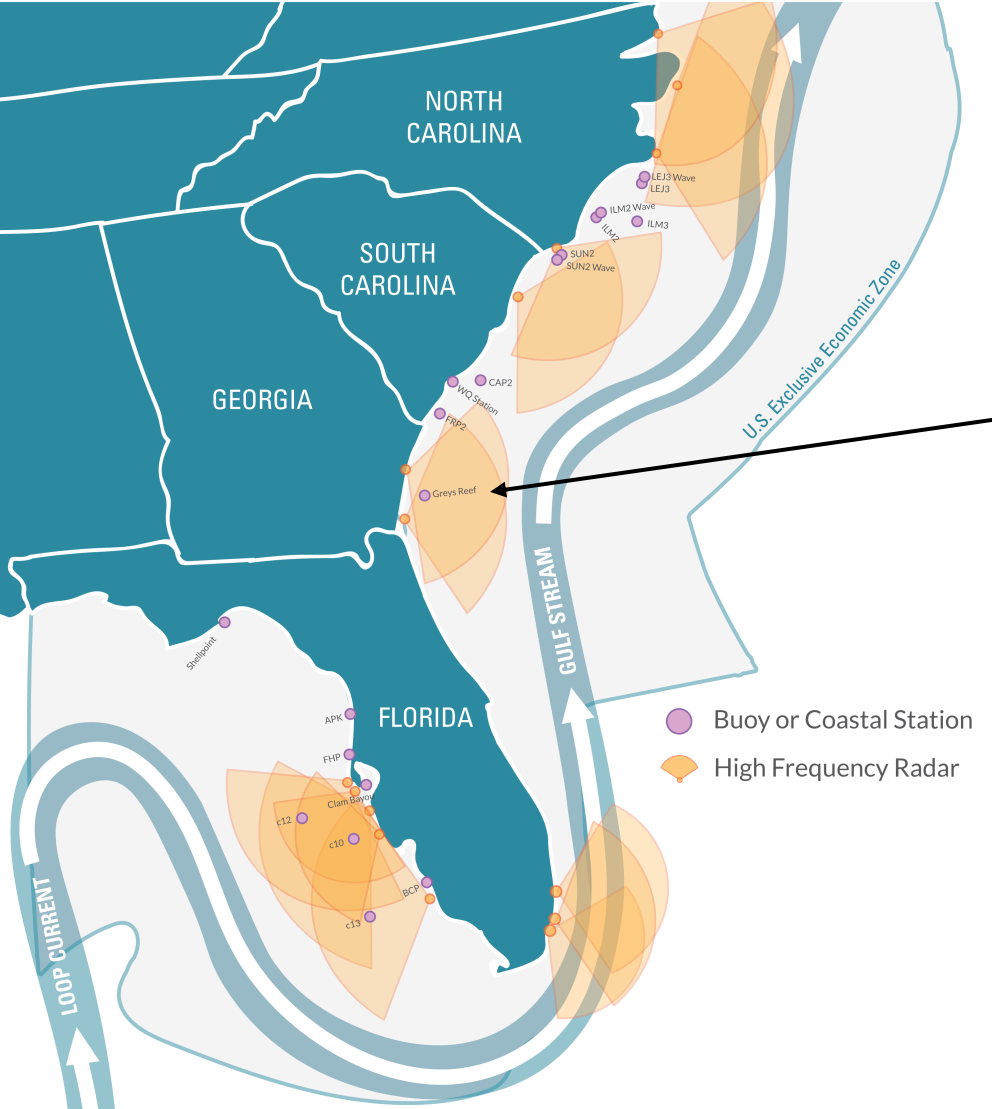


Carbon Dioxide and Water Quality Monitoring at Gray's Reef National Marine Sanctuary

Scott Noakes

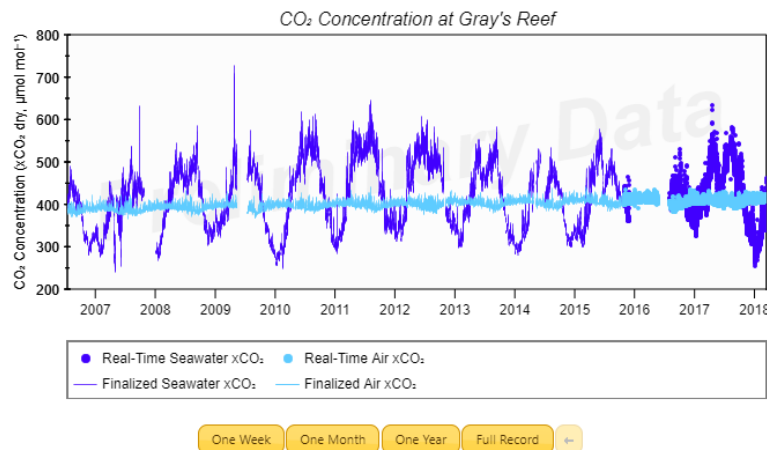
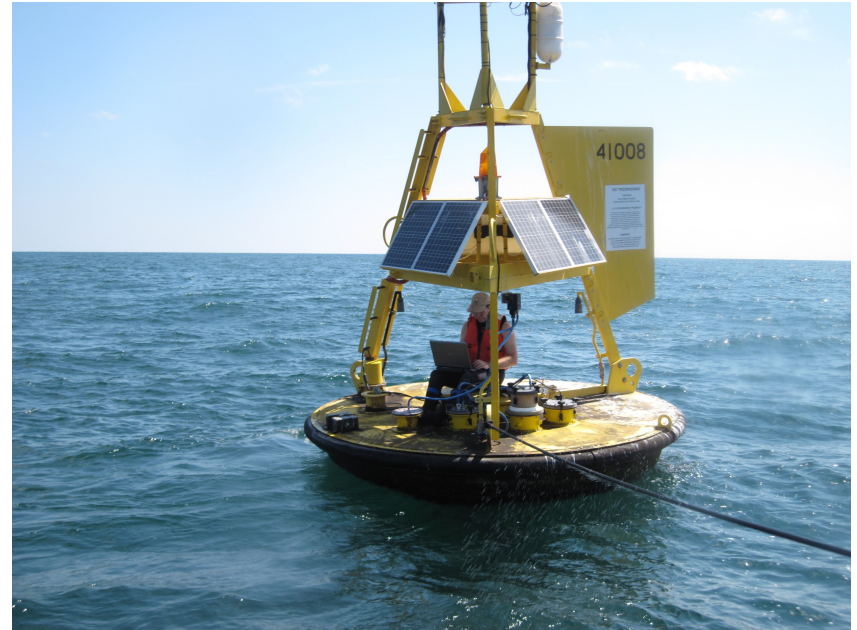
The University of Georgia



Objective

Objective

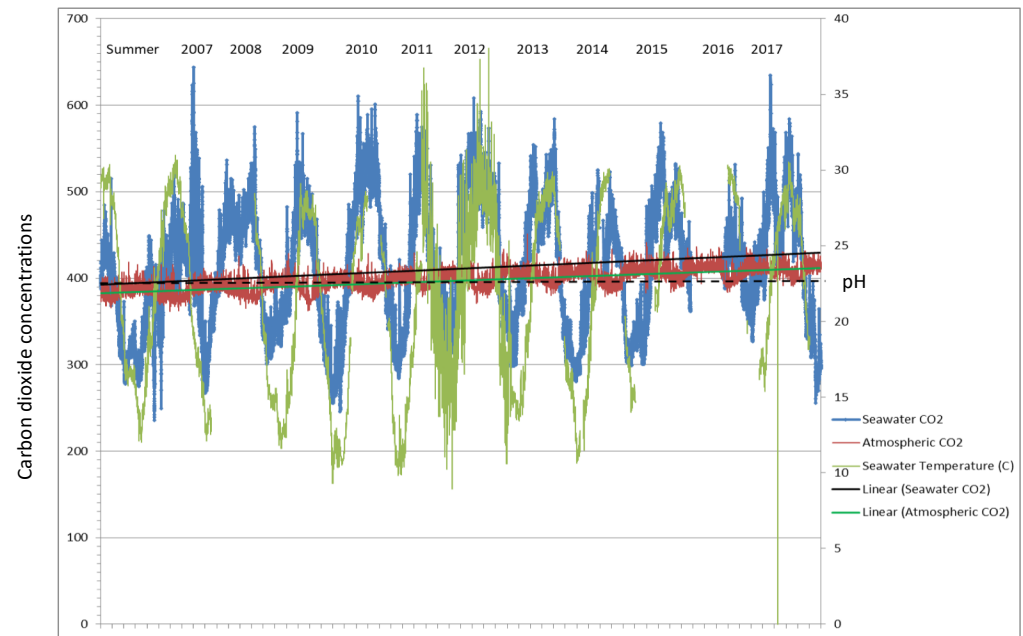
- Monitor carbon dioxide in atmosphere and seawater.
- Monitor water quality including pH
- Display data online through PMEL website



<https://www.pmel.noaa.gov/co2/story/Grays+Reef>

Accomplishments

- ~90% operational time since 2006
- Monitoring site representative of SE United States
- Ongoing working relationship with NOAA NDBC and GRNMS
- Data utilized in international database for ocean acidification



Impact

- Data utilized by GRNMS for management decisions
- Representative of SE United States ocean acidification estimates
- Part of the NOAA's international monitoring effort
- Early stages of biological responses to increasing carbon dioxide and decreasing pH