

Click and drag to rotate, or click "N" to reset to north

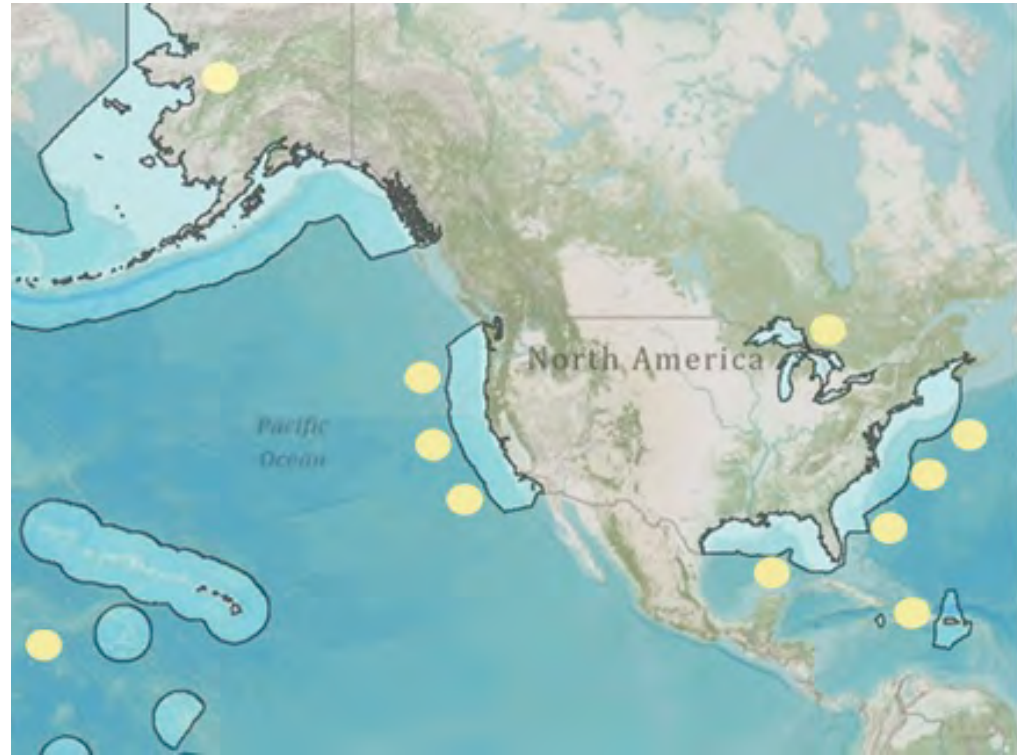
# The Gulf of Mexico Coastal Ocean Observing System

Benefits of Joining  
<http://www.gcoos.org>

Data SIO, NOAA, U.S. Navy, NGA, GEBCO  
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# GCOOS is:

- One of 11 regions in the U.S. Integrated Ocean Observing System (IOOS) network
- A stakeholder-driven partnership, dedicated to acquiring, integrating, and serving oceanographic and meteorological information for the benefit of society
- Governed by the GCOOS Regional Association (RA)



*U.S. IOOS – Network of 11 Regions*

# GCOOS is an End-to-End System

- Collecting, aggregating, integrating, and serving data and products derived from a combination of instruments on buoys, satellites, ships, drifters and underwater vehicles;
- Combining near-real-time, integrated, and sustained observations of the ocean and atmosphere at the air-sea interface with computer models and other data sets for a holistic understanding of the Gulf and for forecasts; and
- Freely providing the highest level of ocean information to GCOOS members and society, including a long-term database of observing and monitoring data.



# Current GCOOS Assets

## Integration through Data Portal/ Products

The screenshot shows the top section of the GCOOS Data Portal. On the left is the GCOOS logo, which consists of a stylized 'G' and the text 'GULF OF MEXICO COASTAL OCEAN OBSERVING SYSTEM'. To the right of the logo is the text 'DATA PORTAL'. Below this is a horizontal navigation menu with several buttons: 'Assets', 'Monitoring', 'Direct Data Access', 'SOS', 'LDN SOS URLs', 'Vocabularies', 'Downloads', and 'Contact Us'. The 'Assets' button is currently selected and highlighted.

### Welcome to GCOOS Data Portal

This **Data Portal** provides timely information about the environment of the United States portion of the Gulf of Mexico and its estuaries for use by decision-makers, including researchers, government managers, industry, the military, educators, emergency responders, and the general public. Observing stations in the region are monitored constantly.

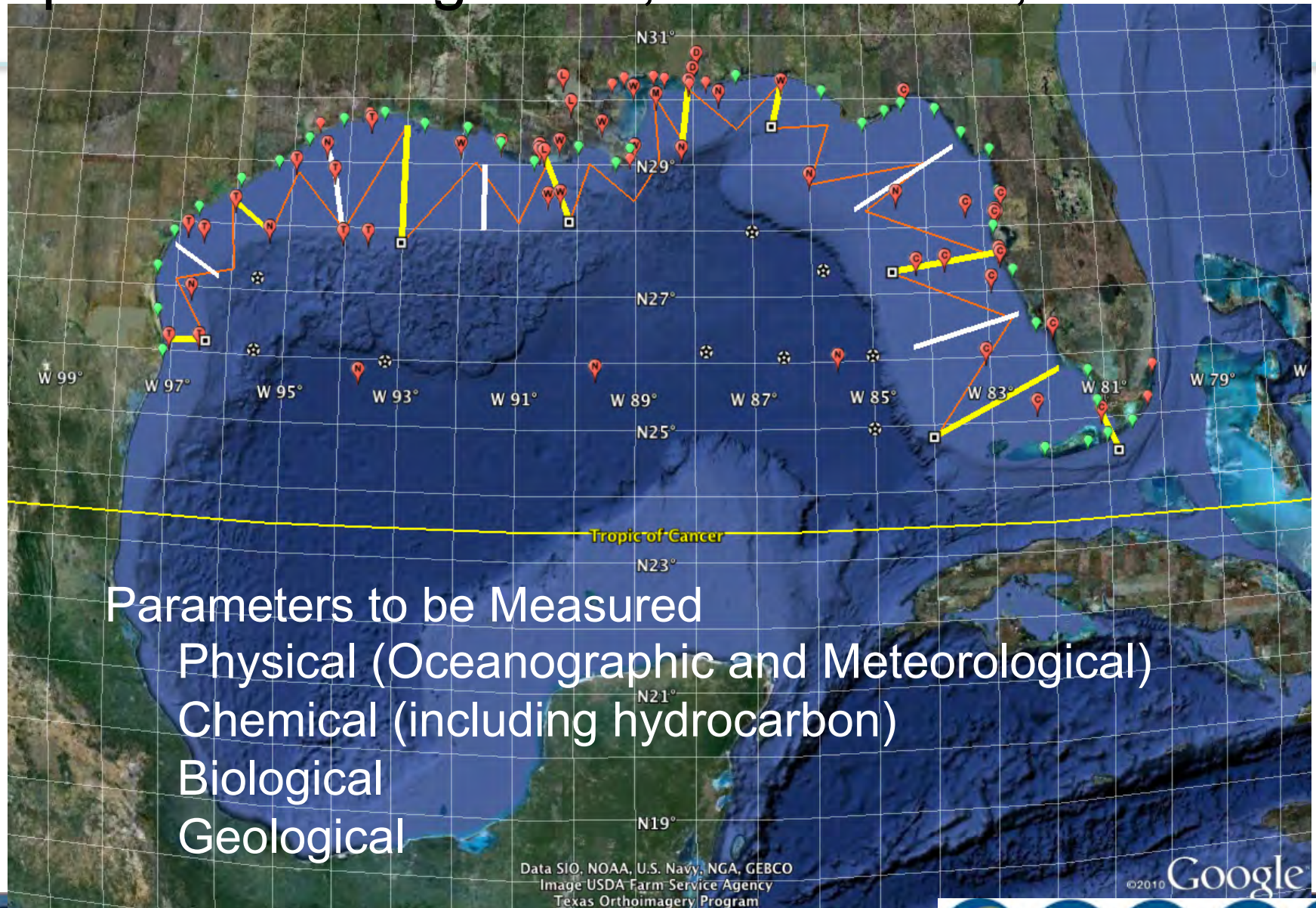
### Region's Data Sources

The following is an interactive map to display resources. Click on the station to view status and station details. Not all stations may be visible at the current scale. Zoom-in on an area to reveal all the stations. The HF Radar overlay uses Coastal Observing Research and Development Center (CORDC) published [HF RADAR API](#). [Click here](#) to toggle back to 2D mapping from 3D display.

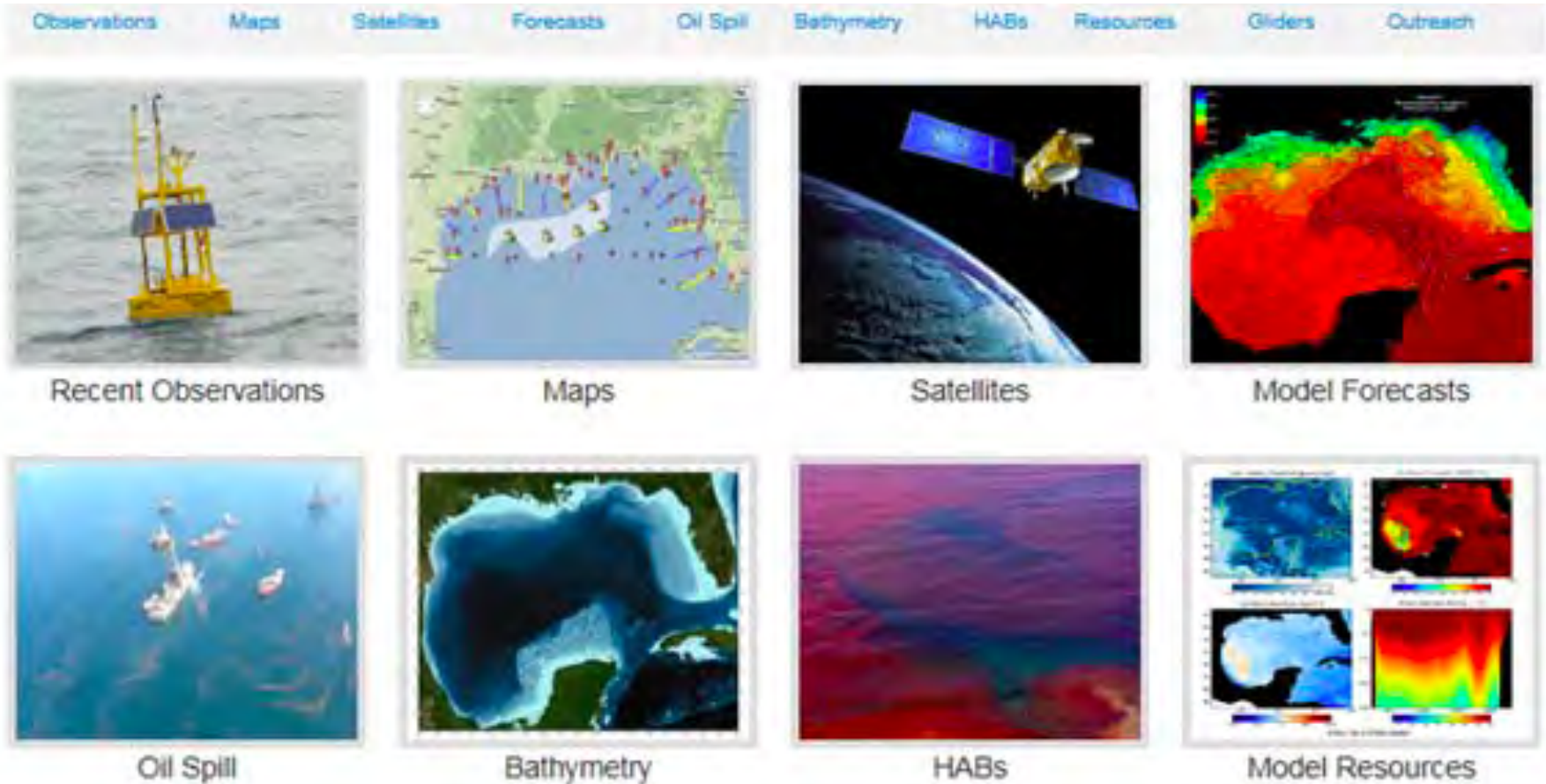




# Proposed Mooring Lines, AUV Tracks, HF Radar



# GCOOS Data Products





# Benefits of GCOOS Membership

- Leverage your monitoring or observing data through the GCOOS data portal
- Guide development of the observing system and data products
- Vote for, or participate in, the Board of Directors, councils, committees, and/or task teams
- Receive assistance with broader impacts, outreach, communications, and Letters of Support for proposals
- Network with key experts, decision-makers, and other stakeholders
- Increase public and professional awareness of your activities and programs

# Benefits of GCOOS Membership

- “GCOOS is vitally important to Fugro GEOS, providing the opportunity to develop and implement new offshore operational ocean observing techniques in a unique partnership. To safely and efficiently undertake Fugro’s numerous offshore operations requires accurate, timely and accessible environmental information.” Jan Van Smirren, President, Fugro GEOS Inc.



# Benefits of GCOOS Membership

- “The Gulf of Mexico, arguably the most important region of any surrounding the United States from an economic, tourism, ecosystem and shipping standpoint, is also one of the most vulnerable to natural and human-caused catastrophic events. The importance of a sustained, integrated observing system that can address hurricanes, oils spills and other high priority issues cannot be overstated.” Ray Toll, Science Applications International Corporation (SAIC), Vice President for Industry and Technology, Marine Technology Society

# Opportunities to Collaborate

- GCOOS Board of Directors
- Products and Services Advisory Council
- Education and Outreach Council
- Data Management and Communications Committee
- Observing Systems Committee
- Membership Committee
- Task Team on Public Health
- Modeling Task Team
- Gulf Glider Task Team
- Government Relations Task Team



# Collaboration Success Stories

- The GCOOS Data Portal was awarded an EPA Gulf Guardian Award for contributions supporting the work of Emergency Responders during the Deepwater Horizon oil spill.
- GCOOS BOD members partnered with the GoM Pilot Prediction Project, the DOE's Research Partnership to Secure Energy for America, and CASE-EJIP, a consortium of offshore oil and gas companies, to evaluate requirements for the operational prediction of deep water circulation.
- GCOOS partnered with USM and Liquid Robotics members to conduct an ocean acidification pilot study.
- GCOOS partnered with USF and Mote Marine Lab members to conduct coordinated glider missions to establish protocols for glider data acquisition by numerical models and integration with satellite data.
- GCOOS Education and Outreach Council members created an EPA Gulf Guardian award winning game for five aquariums, four of these designated Coastal Ecosystem Learning Centers.



# GCOOS Members: Industry

- Aquatrak Corporation,  
Chevron Texaco Energy  
Technology Company,  
Dialytics, Inc., Fugro GEOS,  
Horizon Marine, Forristall  
Ocean Engineering, Inc.,  
Liquid Robotics, Inc.,  
Marathon Oil Company,  
Lighthouse R&D Enterprises,  
Inc., MacArtney Underwater  
Technology,  
NEOSgeosolutions, Nortek  
USA, LLC, QinetiQ North  
America, Raytheon  
Technical Services  
Company,
- Radiance Technologies, Inc.,  
Roffer's Ocean Fish  
Forecasting Service, RPS  
Evans Hamilton, Inc., SAIC,  
SRI International, Shell  
International Exploration &  
Production, Inc., STG,  
Teledyne RD  
Instruments, Teledyne ODI,  
Tellus Applied Sciences,  
Inc., Think Blue Solutions,  
LLC, TowBoat U.S. Tampa  
Bay to Crystal River, Titan  
Partners, Woods Hole  
Group, Inc., and  
WeatherFlow, Inc.

# GCOOS Members: Government

- BOEM Regulation and Enforcement
- Barataria-Terrebonne National Estuary Program
- Florida Fish and Wildlife Research Institute
- Florida Department of Environmental Protection
- Florida Sea Grant
- Mission-Aransas National Estuarine Research Reserve
- Mississippi Department of Marine Resources
- Mississippi-Alabama Sea Grant Consortium
- Naval Research Laboratory
- Sanibel-Captiva Conservation Foundation
- Tampa Bay Estuary Program
- Tampa Bay PORTS
- Texas Automated Buoy System
- Texas General Land Office
- Texas Sea Grant
- U.S. EPA Gulf of Mexico Program

# GCOOS Members: Academia (examples)

- COAPS, Florida State University
- Dauphin Island Sea Lab
- Florida Institute of Oceanography
- University of Southern Mississippi
- Gulf of Mexico Hydrates Research Consortium of the University of Mississippi
- Gulf of Mexico University Research Collaborative
- Information Technology & Systems Center of University Alabama in Huntsville
- Louisiana State University – WAVCIS
- LUMCON
- Mississippi State University



# GCOOS Members - NGOs

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- Galveston Bay Foundation
- Gulf of Mexico Alliance
- Mote Marine Laboratory, Inc.

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# Contact

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