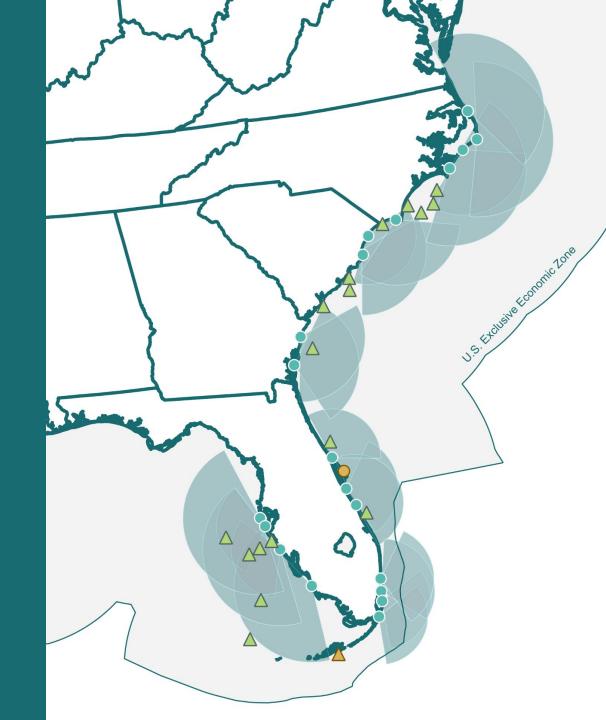
Data Management

Axiom Data Science Lauren Showalter





Overview

- Curate multiple data streams from the sensors and models supported by SECOORA as well as from independent data providers
- Document data using IOOS-approved metadata standards
- Provide data to users via standard services and data products
- Archive data in long-term archives









Accomplishments

- Enhanced data center server access security
 - Built, installed, and provisioned a new persistence server cluster
 - Decommissioned old generation compute servers in favor of more performant hardware
 - Developed deployment topology for compute nodes with high performance NVMe storage
 - Improved web server deployment configuration update procedure for increased stability
 - Developed enhanced storage appliance monitoring dashboards
- V1 to V2 sensor migration is functionally complete. QARTOD is now easily applicable to any realtime sensor.
- Completed initial implementation of mobile interface for viewing regional real-time sensor data
- Leverage modern portal image format to optimize home page load times
 - Update metadata and sensor database hardware and software, reducing initial metadata load time from ~7 seconds to ~1.8 seconds
- Compiled and sent out data portal asset spreadsheet to survey RA priority layers
- Participation and presentation at IOOS RA shared users group on Dec 8
- Support and data ingestion for the water level team
- Glider support updates
- Updates to stations- can now have defined Datum conversions
- WebCOOS updates, support, and management
- Support and tool development for the Estuarine Soundscape Observatory Network and FACT programs, and the glider team
- Development of SECOORA AI gateway site
- Support for SE SEAMAP program
- Ingestion and visualization of other relevant data





Is Al Right for My Project?

lavigate through the decision tree to identify the most suital WML approaches for your ocean science endeavors. Click o

























Looking Ahead

- Planning for Next Generation data portal
- Scaling to national WebCOOS capabilities
- Visualization of SE-SEAMAP data
- •Ingestion and visualization of Surface Elevation Table (SET) data
- Continued support for all SECOORA funded efforts
- •Improvements to exiting storage and search capabilities







