Sea Grant Phase II

Overview

A first goal of Phase II is to extend the current Great Lakes Geo-Dashboard to enable dynamic upload, search, download, facilitate community data collections and provide new views into the data sets. The second goal of Phase II is to study the Triaxis and Seabird data and develop algorithms that will enable anomaly detection and adaptive observation. Additionally, we plan to provide a hosting environment that will grow with the community needs for data size and concurrent access.

User Communities

The different user communities are representative of how far they are away from the raw data.

Scientist / Modelers

- Raw data
- Typically query data for type and location
- Looking for data with a broad distribution of data to make modeling more accurate

Data Monitoring / data providers

- QA/QC – data drift, outliers, seasonal trends,
- Upload data
- Reporting – summary of activities and data collected

Managers (organizational)

- Trend graphs
- Download data for their own use or for local collections

Policy Makers

- Quick reference visualizations
- Results and summary data products

User Interface

UI development will address the environment layout, search interfaces, navigation, data views and approaches to keep ease-of-use issues simple.

Server

This section addresses the data model, remote data access services and workflow integration for the automation of analytics,

Data Sources

Sea Bird and Triaxis data research focused creating algorithms to facilitate QA/QC processes, data patterns and anomalies in an effort toward automating these processes. This section will also address issues related to other new data sources identified by the community.

Use Case Scenarios

Examples of community use cases

Developers Meeting Blog

Notes and issues discussed at the developers meetings.