

LCA Captains Committee Meeting
Cleveland, OH
February 2018

Overview

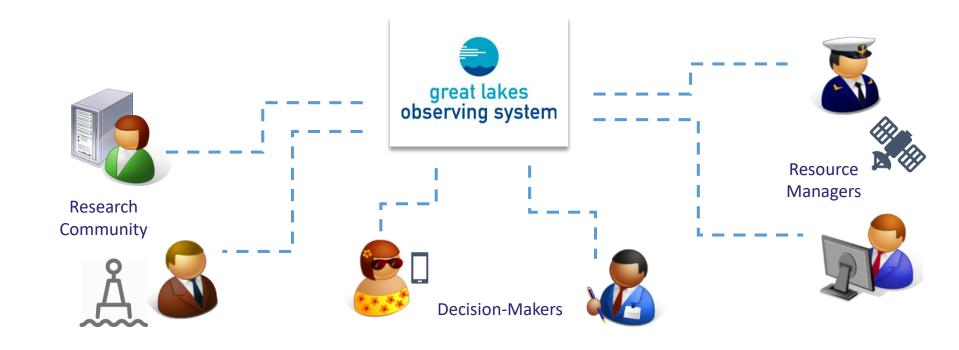
Background on GLOS

Overview of GLOS capabilities
 ~Examples of GLOS tools and services

Opportunities

Elevating Great Lakes Data





- 1. Coordinate the network of Great Lakes information stakeholders
- 2. Support and enhance the operation of Great Lakes observation capability
- 3. Improve access to high-quality, integrated data
- 4. Develop and enhance data products and decision-support tools

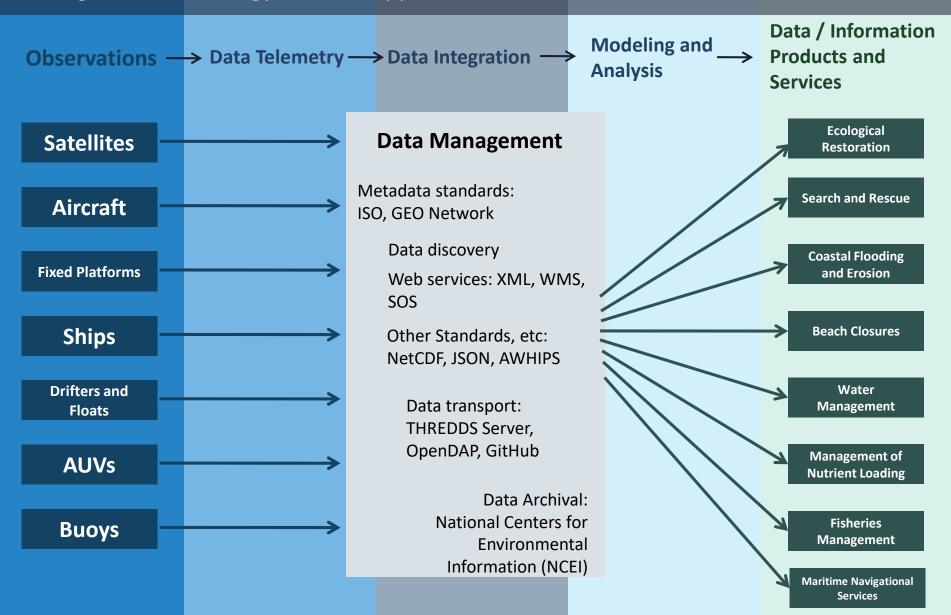
Driven by User Needs

Ecosystem Health Maritime Operations

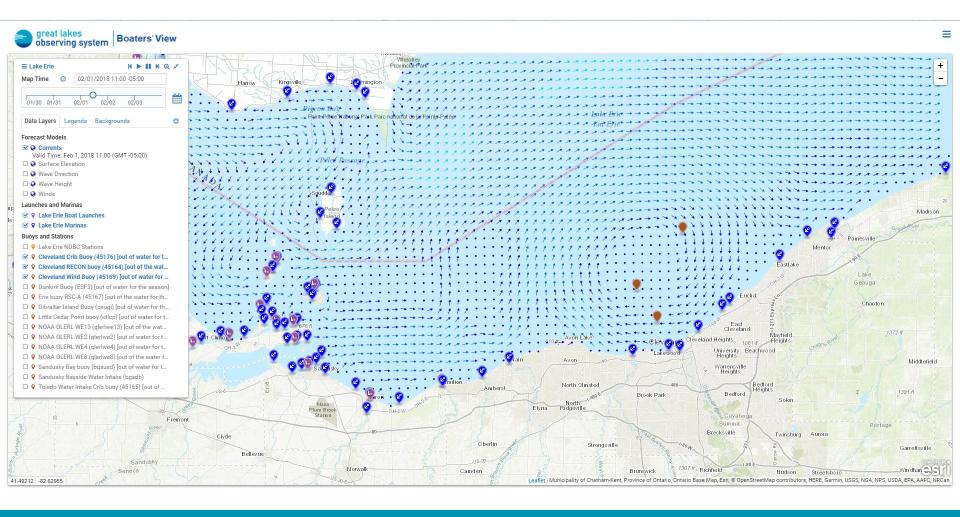
Climate Change Adaptation Public Health and Safety

The GLOS Enterprise

Integrated Technology / Data / Applications Architecture in the IOOS Framework



Example: GLOS <u>Data Portal</u>, <u>Boater's View</u>



Example: Great Lakes Coastal Forecasting System

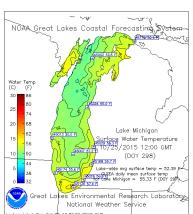
The NOAA GLCFS is a model that provides nowcasts and forecasts for waves, currents and temperatures in near-realtime

Data is updated on the GLOS THREDDS server (TDS) after each run of the model and archived from 2006

The GLOS **Point Query tool** provides quick access to GLCFS input data and model output for a given

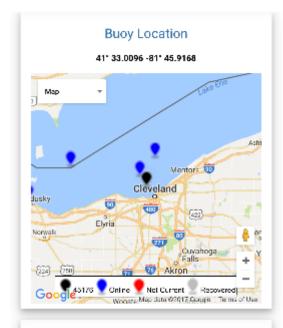
location and time period

http://data.glos.us/glcfs/ http://www.glerl.noaa.gov/res/glcfs/



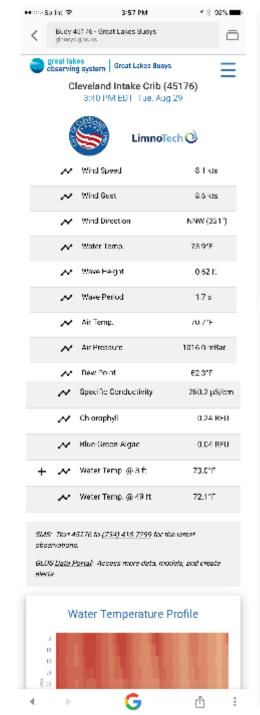
1. Enter Longitu © Decimal Deg	de, Latitude and ree O Degrees Mi	
Longitude:		
Latitude:		
Lake Name:	······································	
Select Po	int of Interest	from Map
2. Select the Mo	odel Type	
		Forecast 2D C Nowcast
110111031125	noncast jo	Torcast Is Howeast
3. Select Date a	nd Time	
Time Zone: Ea	stern Daylight Ti	me 🔻
© Date/Time R	ande O Latest	_
Start Date/Time		00:00:00
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End Date/Time:	I	00:00:00
4. Choose Parar	neters for Outp	ut
Unit of Measure	Fnglish ▼	
ome or measure	English	
Mean Water	Depth	
☐ Water Level	Displacement	
Water Veloci	ty at Surface	
Depth-Avera	ged Water Velocity	/
Significant W	_	
Wave Directi		
Wave Period		
☐ Ice Concentr	ation	

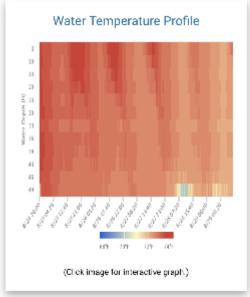
Example: glbuoys.glos.us



Additional Buoy Information

This buoy is located offshore of Cleveland near the water intake orib. Funding for the station is provided by the City of Cleveland, funds are managed by the Great Lakes Observing System, and the station is owned and maintained by LimnoTech. The station monitors atmospheric conditions, waves, water temperature,





National Weather Service Forecast



This Afternoon	Tonight	Wednesday	Wednesda Night
A			*
NNE 10kt	SSE 10kt	N 9kt	WSW 8kt
1ft	10.	10.	10.
High: 76°F	Law: 641F	High: 74°F	Low: 571

This Afternoon: NNE wind 8 to 10 kt. A slight chance of showers and thunderstorms. Waves around 1 ft.

Tonight: ENE wind 8 to 10 kt becoming Slafter midnight. A chance of showers and thurderstorms before 1 am, then a slight chance of showers after Sam. Waves around 1 ft.

Wednesday: SSW wind 5 to 9 kt becoming N in the afternoon. A chance of showers, with thunderstorms also possible after noon. Waves around 1 ft

Wednesday Night: W wind 6 to 8 kt becoming SW in the evening. A slight chance of showers and thunderstorns after 3am. Waves around 1 ft.

Click here to visit the full National Weather Service.





Recap

GLOS is a **network** of people and technology coordinated to provide easily-accessible data about the Great Lakes

- Provide coordination and support for observing
- Help to share and make data accessible
- Web portals to view, download data
- Data management facilitator
- Variety of data products and tools

GLOS is a resource to leverage



Questions?

