

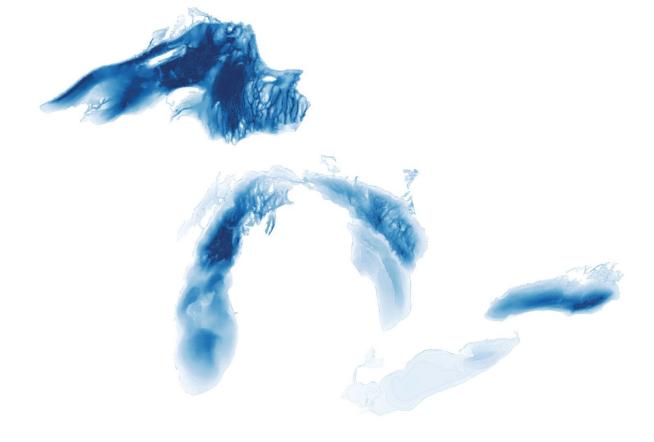


Where in the World is Data

Spring 2025 IOOS DMAC Meeting | April 30, 2025

Tim Kearns (GLOS), Mike Sutherland (GLOS)

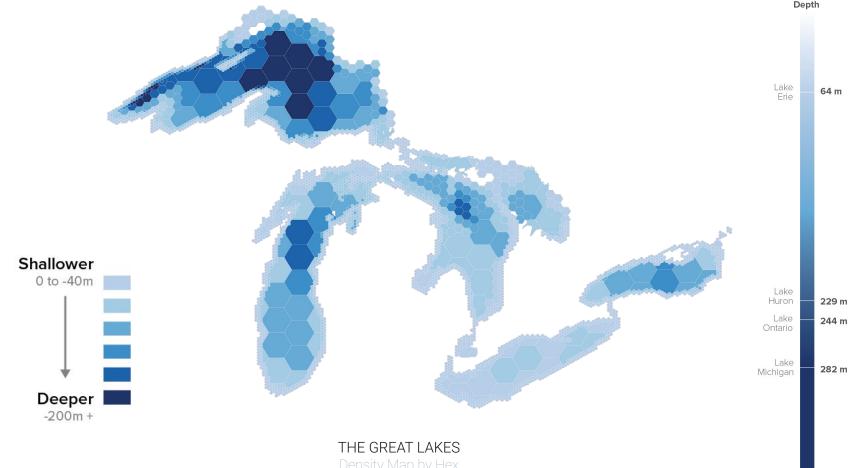




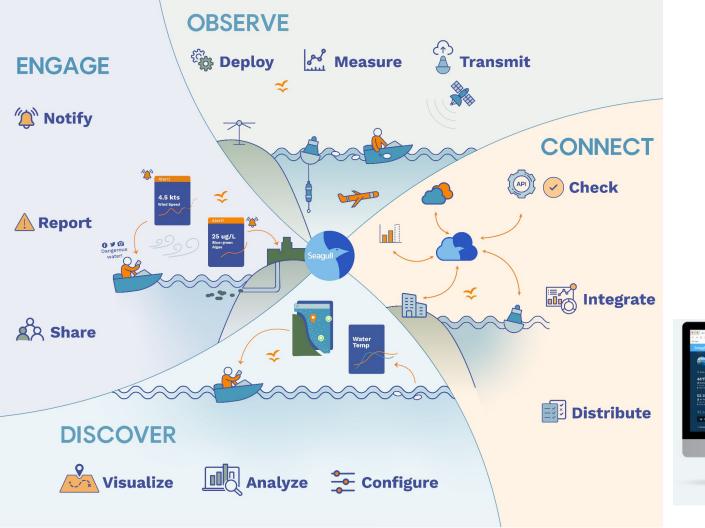
THE GREAT LAKES

Projection: UTM NAD83 ZONE 17N Sources: National Oceanic and Atmospheric Administration, Natural Earth











seagull.app

Great Lakes Data and Information Discovery Platform





Where in the Great Lakes is the *data*? Availability *does not equal* Accessibility.

Most of these tools are centered around where people can get the data.

We wanted a tool to make it easy for people to ultimately get the data.

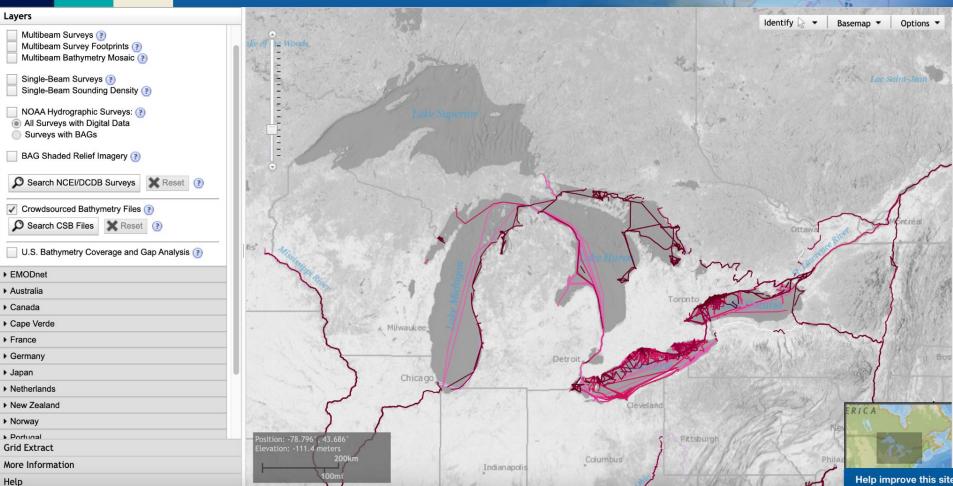






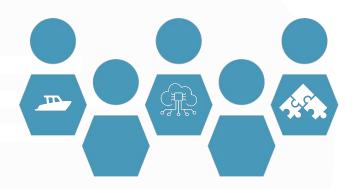


Data Centre for Digital Bathymetry Viewer









Crowdsourced Bathymetry brings us one step closer to our goal

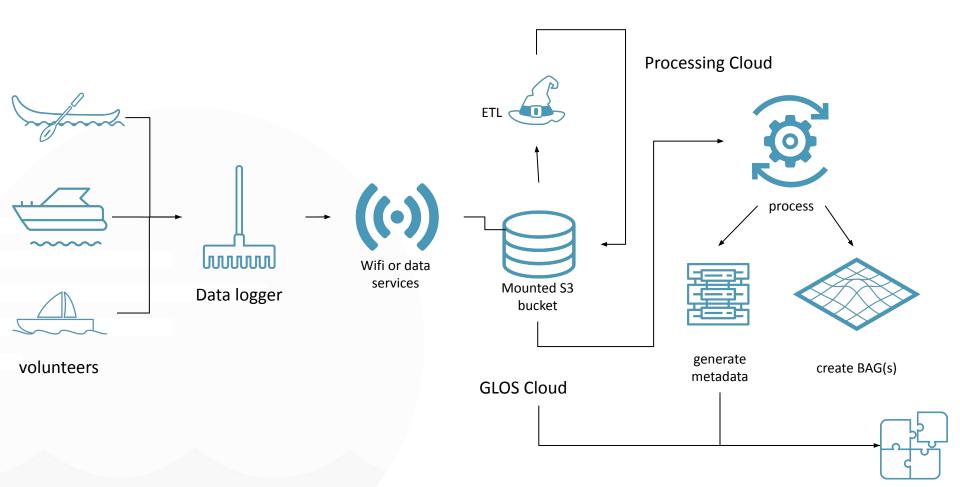


Great Lakes Observing System partnered with Orange Force Marine to

Gather volunteers,
Collect data, and
serve to the IHO DCDB, for
consumption





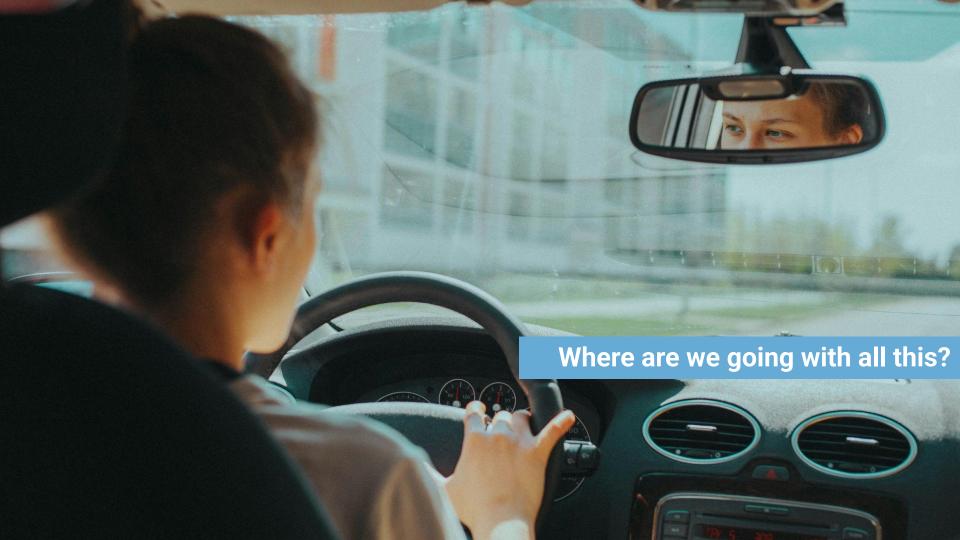


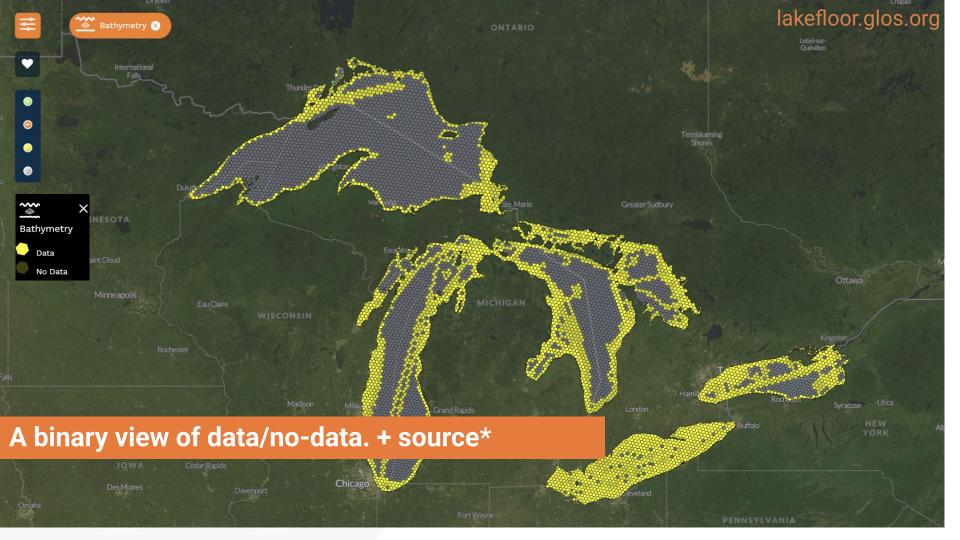


The CSB program has been reasonably successful...

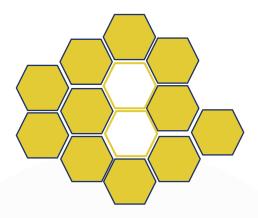
- GLOS is a IHO CSB Trusted Node
- 23.2M soundings submitted to DCDB
- 22 Vessels operating
 - (96% Canada)
- 31,000 NM steamed (linear distance)
- ~\$2,500/vessel/year









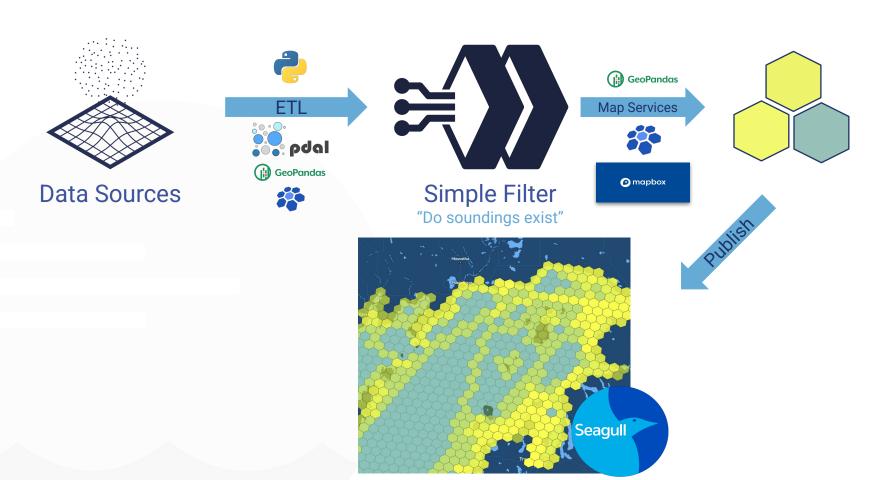


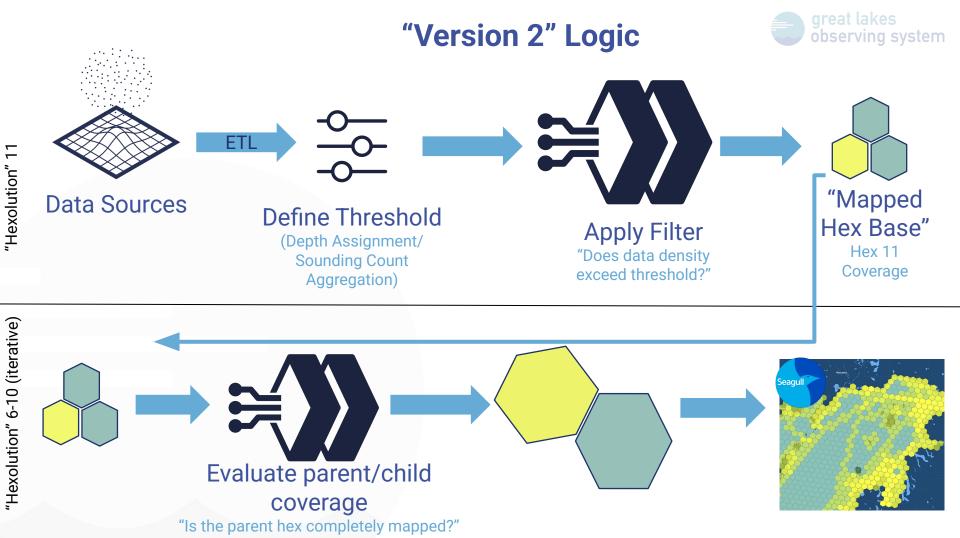
Hexagon Tessellation & Zoom Levels

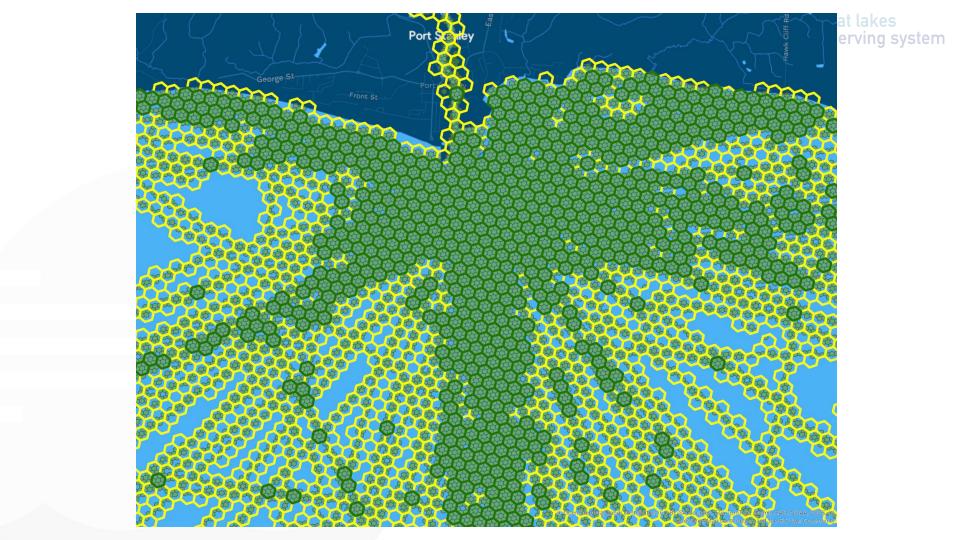
Hex Level	Average Area (m^2)	Approximate Width (m) (Hexolution [™])
4	1,770,347,654	45,158
5	252,903,858	17,068
6	36,129,062	6,451
7	5,161,293	2,436
8	737,328	920
9	105,333	348
10	15,048	131

Behind the Scenes







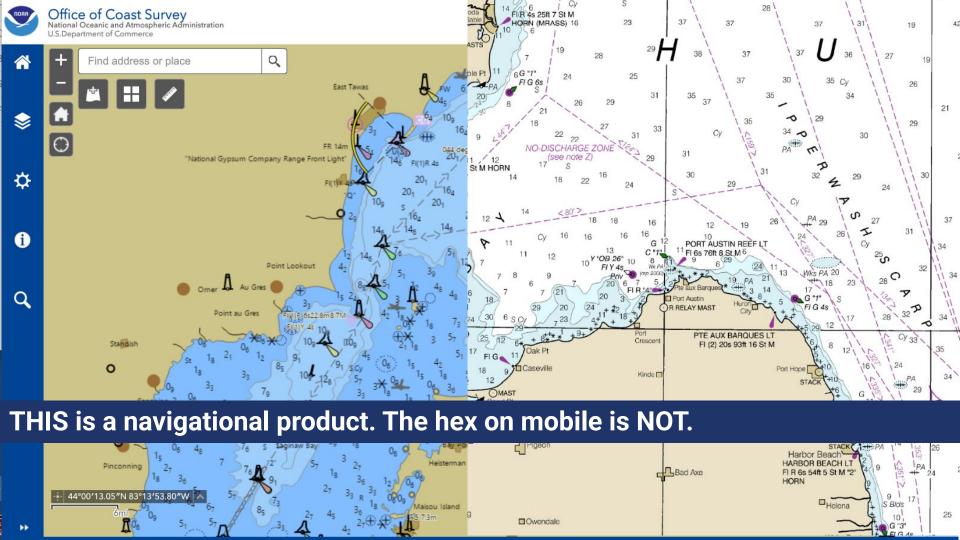




Eventually, this will be available on a mobile app.

Opportunity
Awareness
Gaps
Volunteer







Thank you.



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Live Demo.

