NOAA Data Sharing

Lake Superior Environmental Monitoring Collaborative

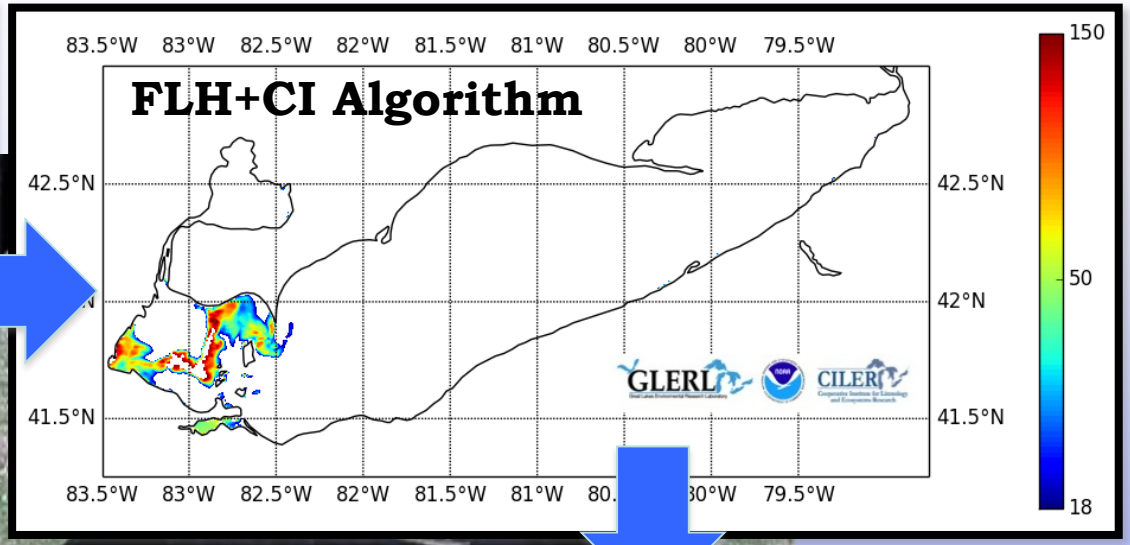
November 20, 2014

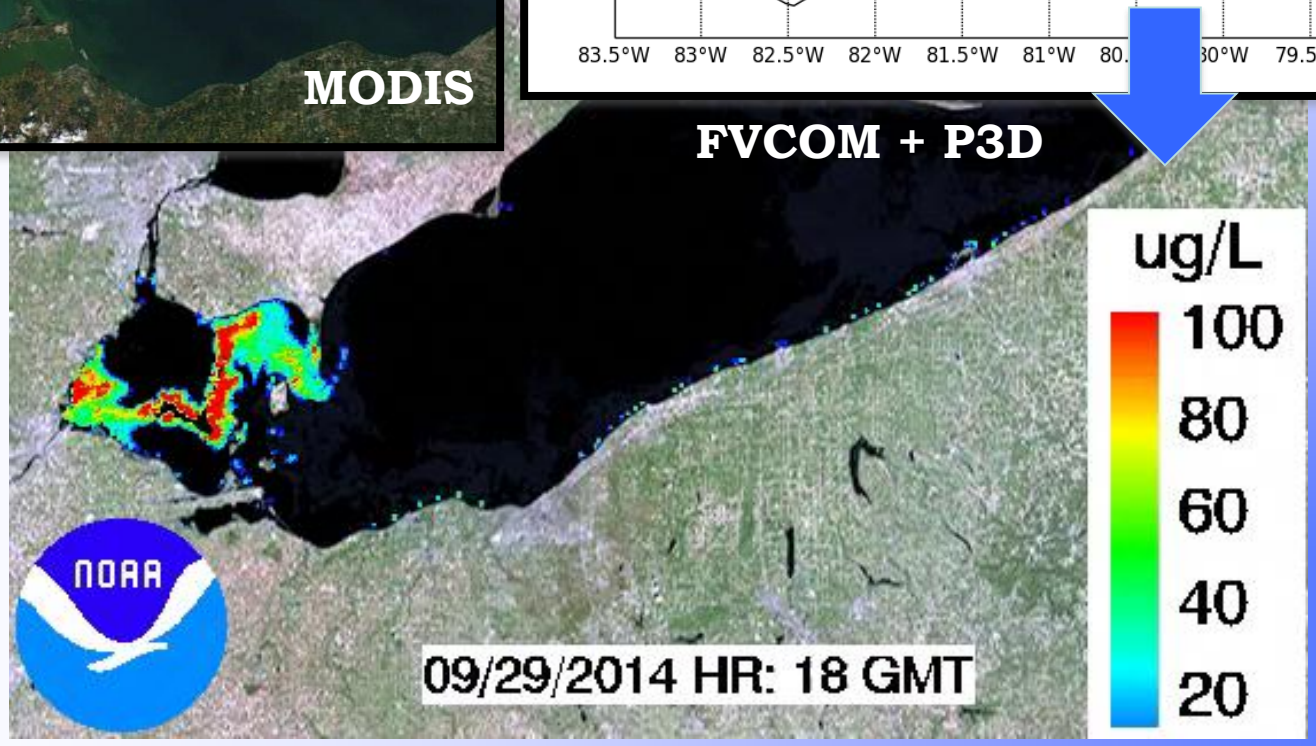
Duluth, MN

Steve Ruberg
NOAA
Great Lakes Environmental Research Lab
Ann Arbor, MI

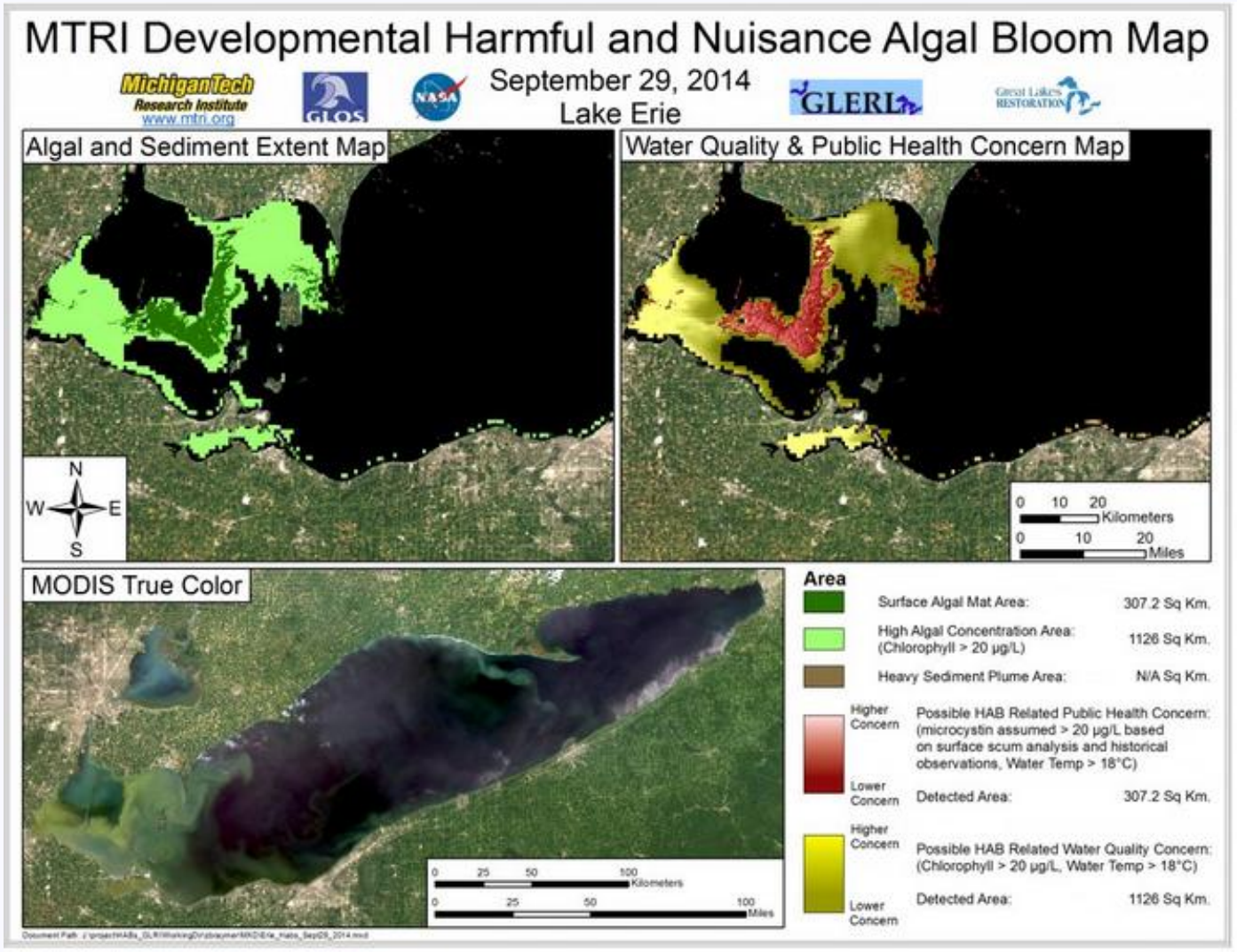
GLERL

Harmful Algal Bloom Tracking





Western Lake Erie HABs Map



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NOAA Great Lakes Coastwatch

What's New New

About

AVHRR Imagery

GLSEA

Contour Maps

GOES Imagery

RADARSAT

MODIS Imagery

Ocean Color

Image Products

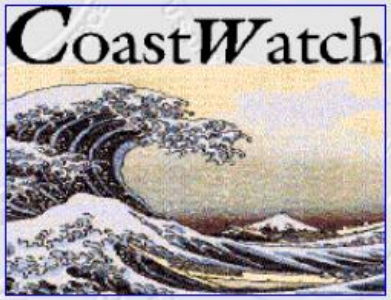
In Situ Data

GLCFS

Statistics

Welcome to the NOAA CoastWatch Great Lakes Node

CoastWatch



coastwatch.noaa.gov

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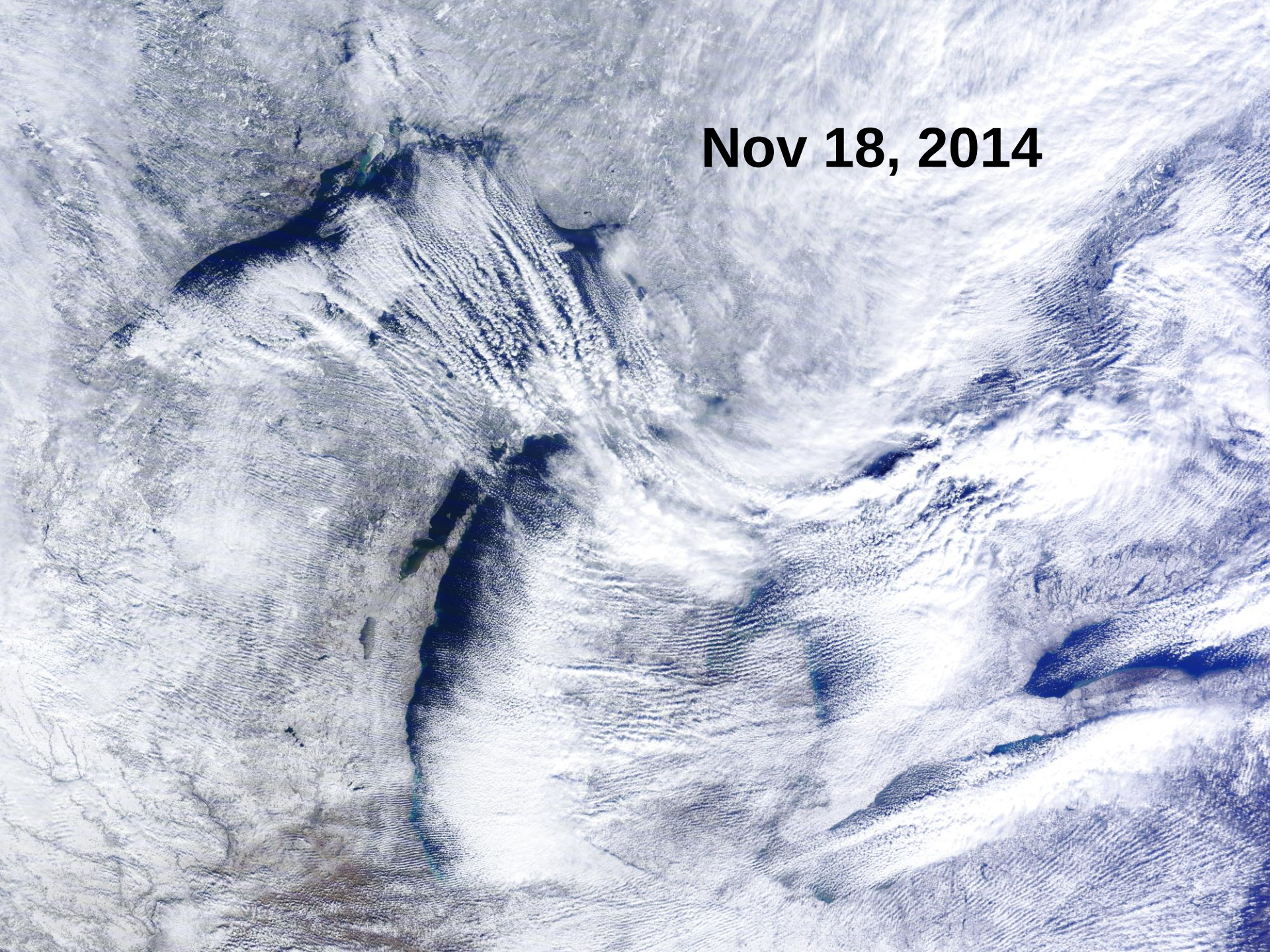
Nov 18, 2014

Great Lakes Mussel Watch

- NOAA Program – GLRI funded in Great Lakes
- Status and trends of over 150 contaminants in mussels
- Tracks effectiveness of pollution prevention legislation and remediation
- Mussel Watch Contaminants egisws02.nos.noaa.gov/nsandt/index.html#
- Ed.Johnson@noaa.gov

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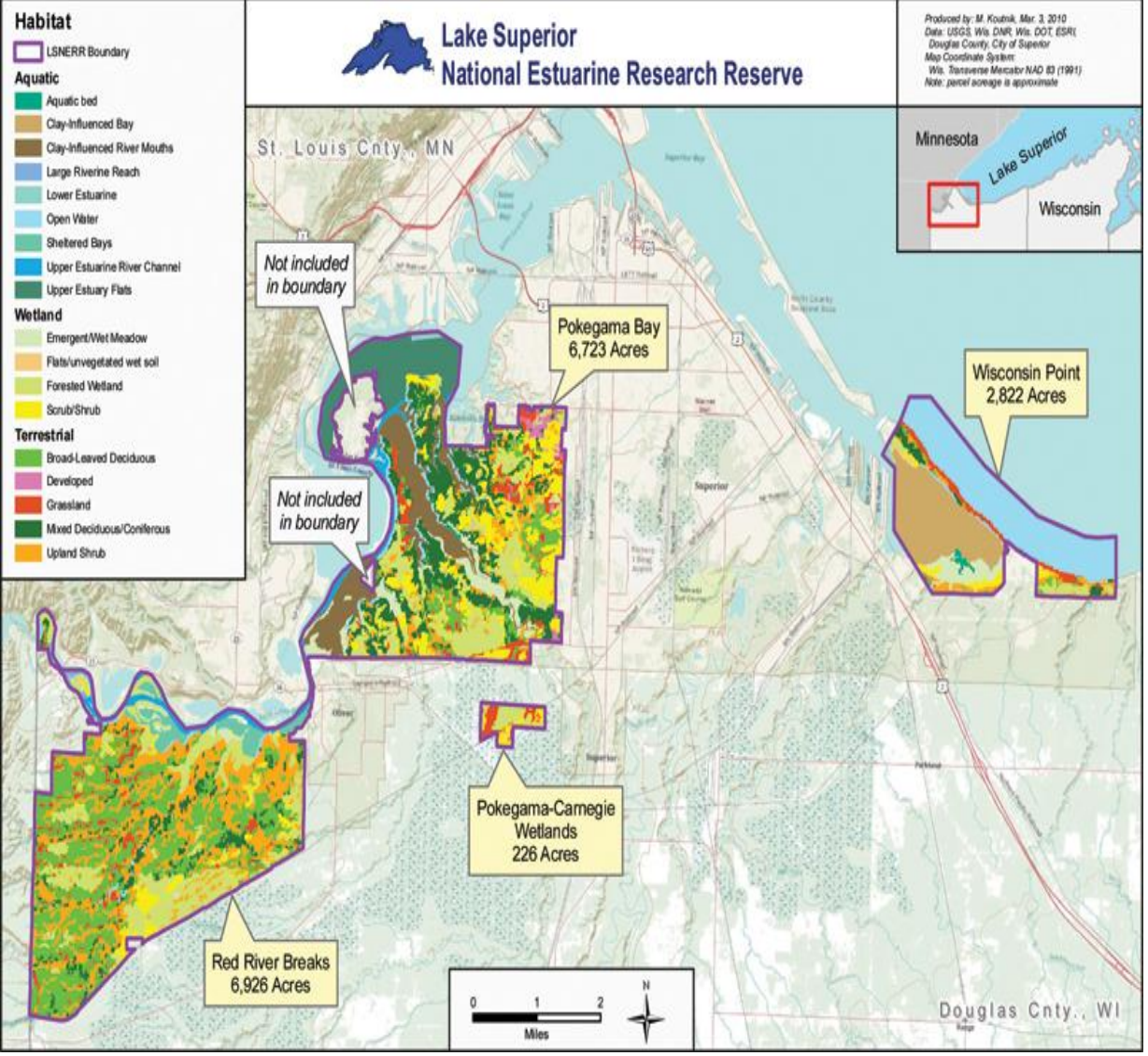


ne National Estuarine Research Reserve System

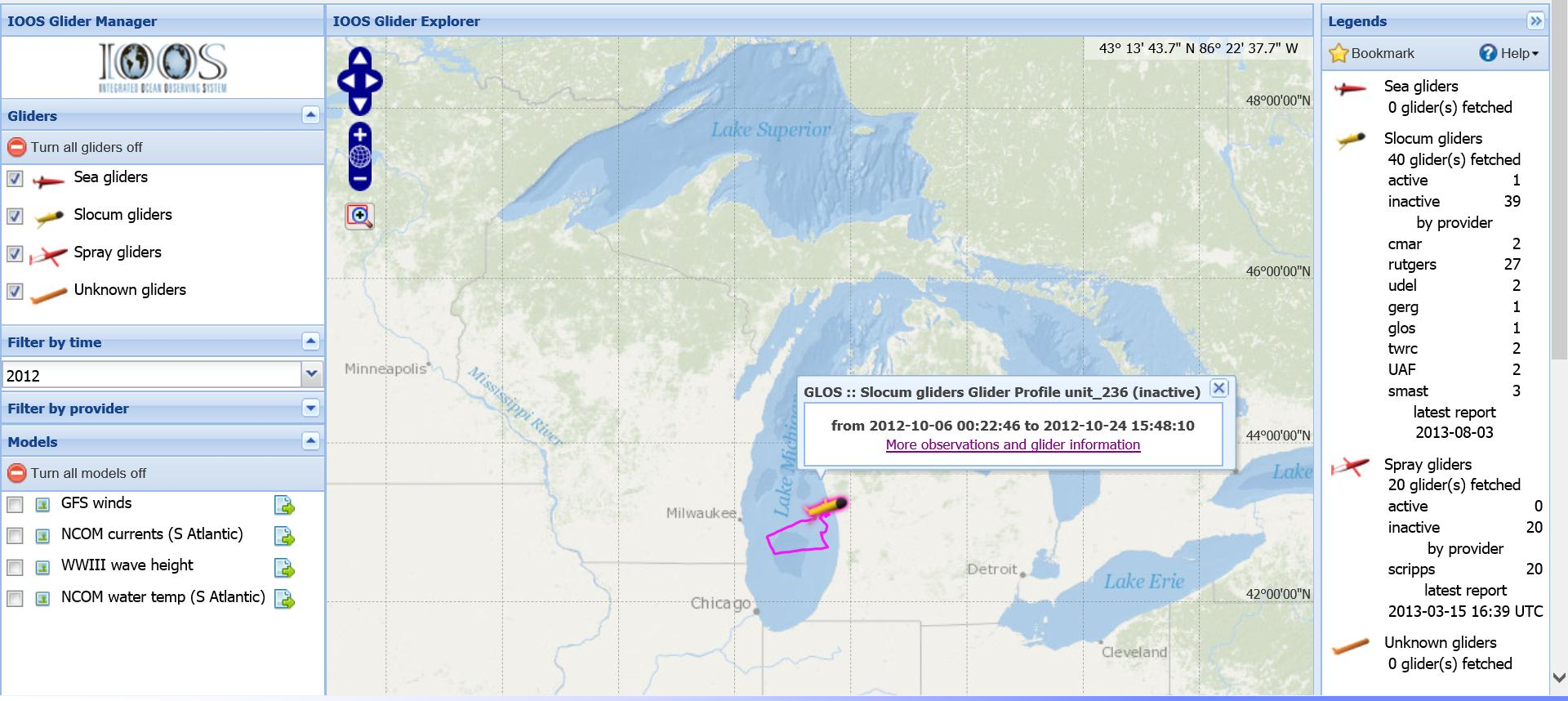
More than 1.3 million coastal and estuarine acres in 28 reserves located in 22 states and Puerto Rico

4 Part mission
1.Long-term research
2.Environmental monitoring
3.Education
4.Stewardship.

nerrs.noaa.gov

National Underwater Glider Network Map

[Click on the glider symbols for additional information.]



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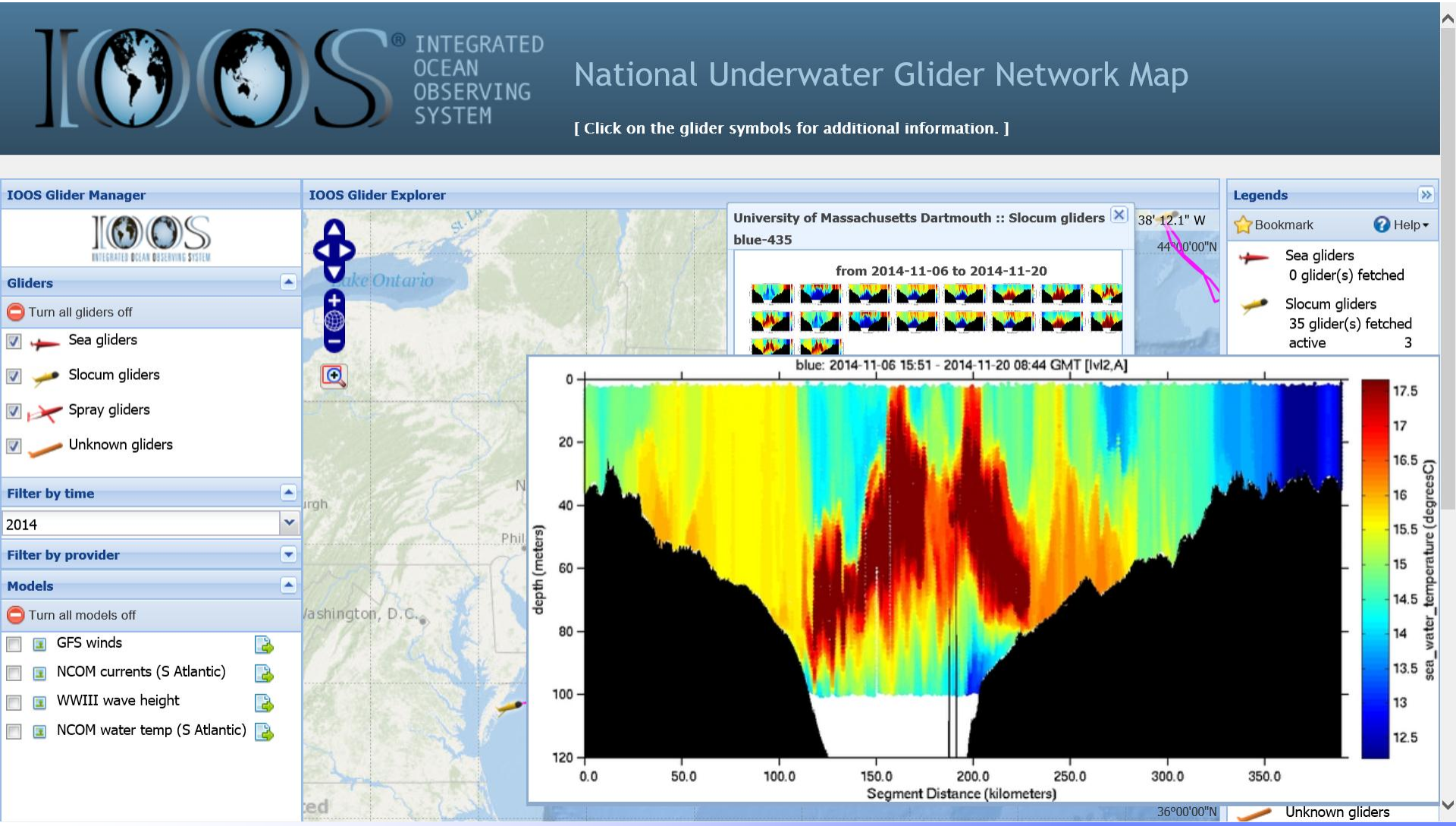

INTEGRATED OCEAN OBSERVING SYSTEM
National Underwater Glider Network Map
[Click on the glider symbols for additional information.]
IOOS Glider Manager
IOOS Glider Explorer
Legends
Gliders
Turn all gliders off
Sea gliders
Slocum gliders
Spray gliders
Unknown gliders
Filter by time
2014
Filter by provider
Models
Turn all models off
GFS winds
NCOM currents (S Atlantic)
WWIII wave height
NCOM water temp (S Atlantic)
Bookmark
Help
Sea gliders
0 glider(s) fetched
Slocum gliders
35 glider(s) fetched
active 3
University of Massachusetts Dartmouth :: Slocum gliders
blue-435
from 2014-11-06 to 2014-11-20
38° 12.1" W
44°00'00"N
36°00'00"N
blue: 2014-11-06 15:51 - 2014-11-20 08:44 GMT [lvl2,A]
depth (meters)
Segment Distance (kilometers)
sea_water_temperature (degreesC)
Unknown gliders

A Global Voice for the Great Lakes

OGC® Member

WQX WATER QUALITY EXCHANGE

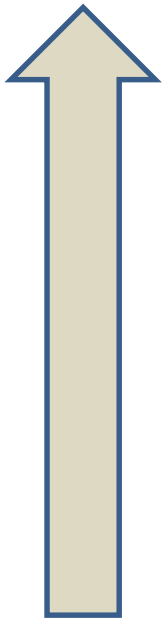
IOOS® INTEGRATED OCEAN OBSERVING SYSTEM

NOAA · EPA · USACE · NASA · USGS

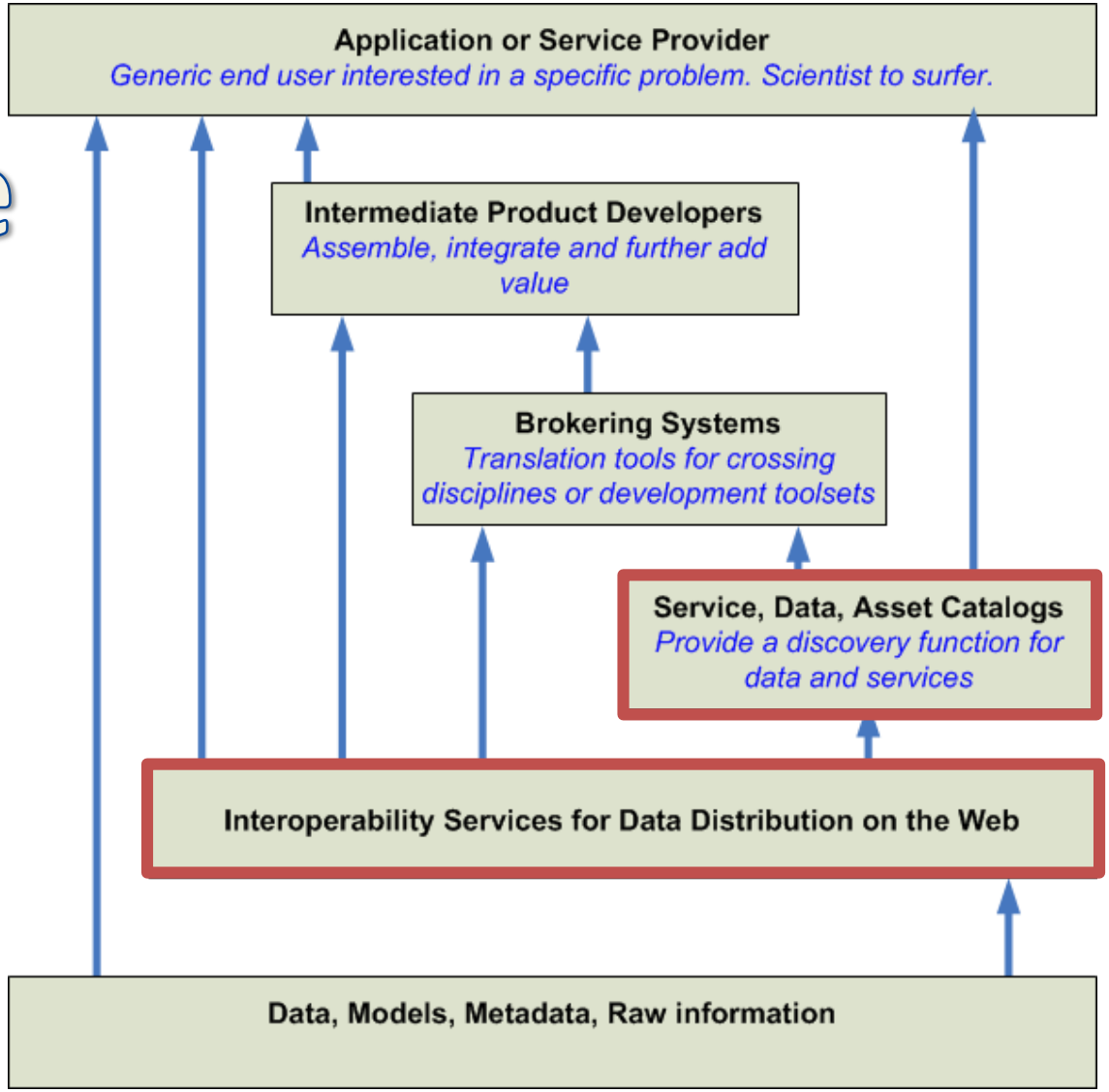
LARGER SCALES OF DATA INTEGRATION

A layered view of the primary roles within IOOS/DMAC

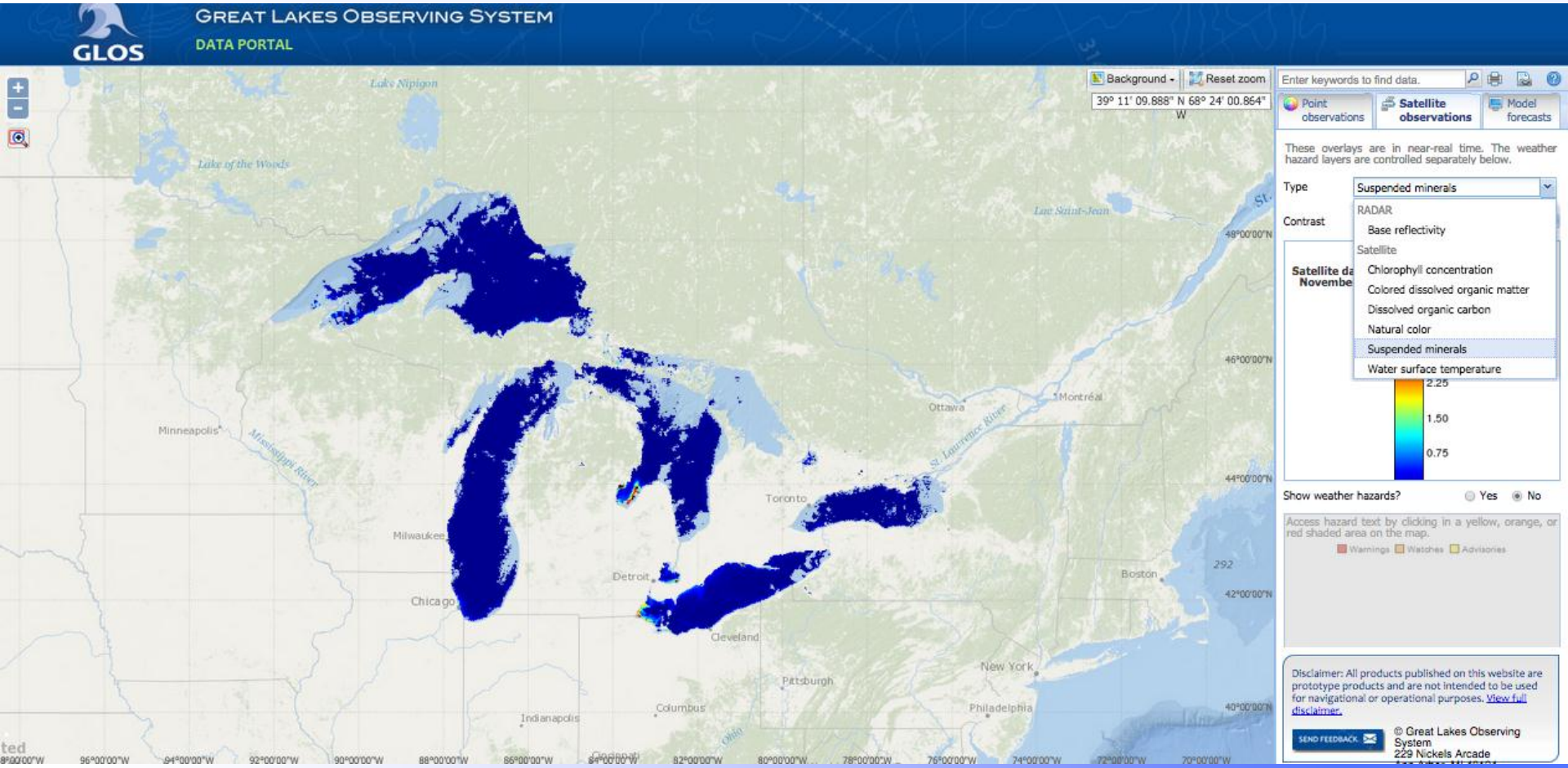
Knowledge



Raw data



GLOS Portal



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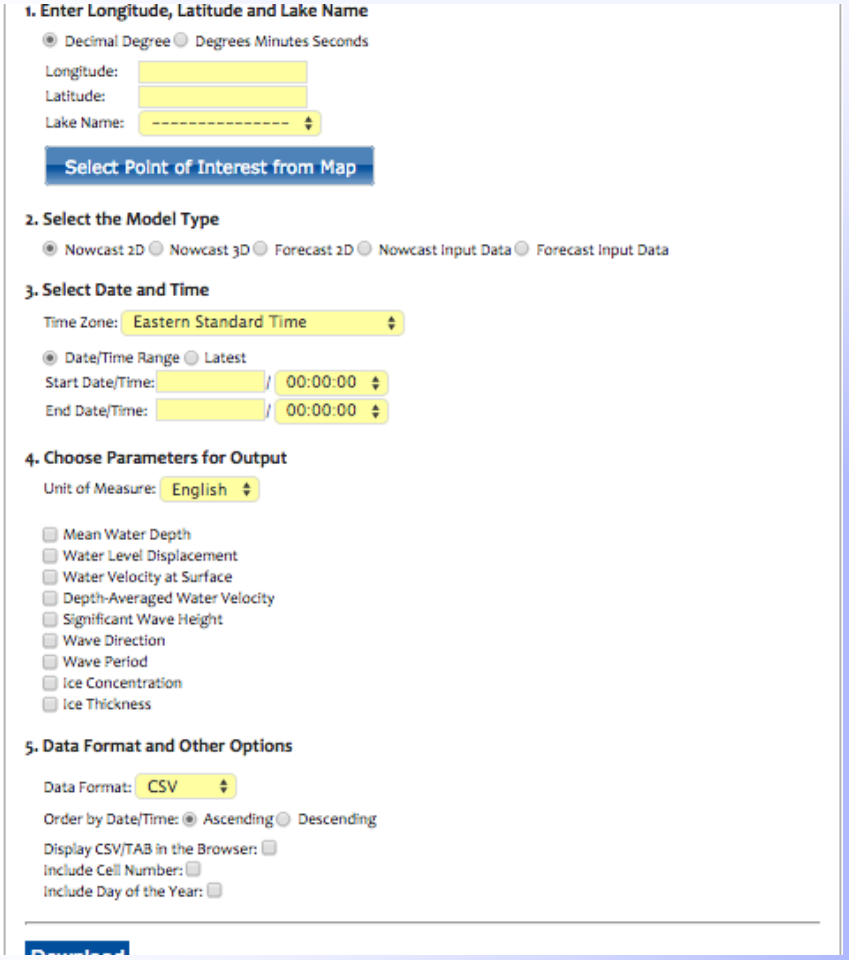
Point Query Tool



- Waves
- Water Levels
- Surface Currents
- Ice Coverage

Data Sharing Portals

- Great Lakes Coastal Forecasting System (winds, waves, currents, surface temps, etc) glerl.noaa.gov/res/glcfs
- National Data Buoy Center (waves, winds, air temps, pressure, humidity, water temps, etc) ndbc.noaa.gov
- Lake Levels tidesandcurrents.noaa.gov
- Remote Sensing (Ice, color, surface temps, etc) coastwatch.glerl.noaa.gov
- Mussel Watch Contaminants egisws02.nos.noaa.gov/nsandt/index.html#
- Great Lakes Observing System data.glos.us/portal/