

# Great Lakes Observing System Annual Meeting 2010

## “Charting a Course for Information Integration”



## Charting a Course for Information Integration

### Information Integration

- DMAC Level
- Application Level
- Policy and Practices Level



## Charting a Course for Information Integration

- DMAC Infrastructure
  - Hardware
  - Software
  - Protocols
- DMAC Applications
  - Data storage and retrieval
  - Data viewers
- DMAC-accessible Data Resources



## Charting a Course for Information Integration

- DMAC Infrastructure
  - Hardware
    - Backup server
    - Data storage
  - Software
    - Maintenance and oversight
    - New processes to support new applications
  - Protocols
    - Supporting IOOS as it proceeds with implementation
    - Two major protocols in place (SOS, THREDDS)



## Charting a Course for Information Integration

- DMAC Applications
  - Data storage and retrieval
    - SOS and THREDDS servers
  - Data viewers
    - GLOS Observations Explorer – <http://www.glos.us/obs>
    - Huron-Erie Corridor Nowcast/Forecast – <http://www.glos.us/hecwfs>



# Charting a Course for Information Integration

Great Lakes Observing System Observations Explorer - Mozilla Firefox

File Edit View History Bookmarks Tools Help

Great Lakes Observing Sys...

**Great Lakes Observing System**  
Observational data for the Great Lakes region

data mapping forecasts valid news about

Products

**Data Mapping:**

- harborview
- observations explorer
- get observations

**Forecasts:**

- hec now/forecasting
- hec flow
- weather conditions
- weekly water levels

**Offsite Data:**

- surface water temps
- more lake conditions

**Great Lakes Headlines**

Lake Huron levels likely to drop this summer  
The Times Herald (4/12)  
A dry winter is expected to cause water levels to be 4 to 5 inches lower on 1 May

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Waiting for maps.google.com...

Station Type Station Info Available Data Record of The Day Search Station Ship Report

Map Satellite Terrain

C-Man Stations

Weather Station

Water Level Station

GLOS Buoy

GLOS Weather Station

3-meter Discus Buoy

Canadian Buoy

NERRS Weather Station

ASOS Station

Pick a parameter from the Available Data tag to do a quick view on the latest data (up to 7 days)

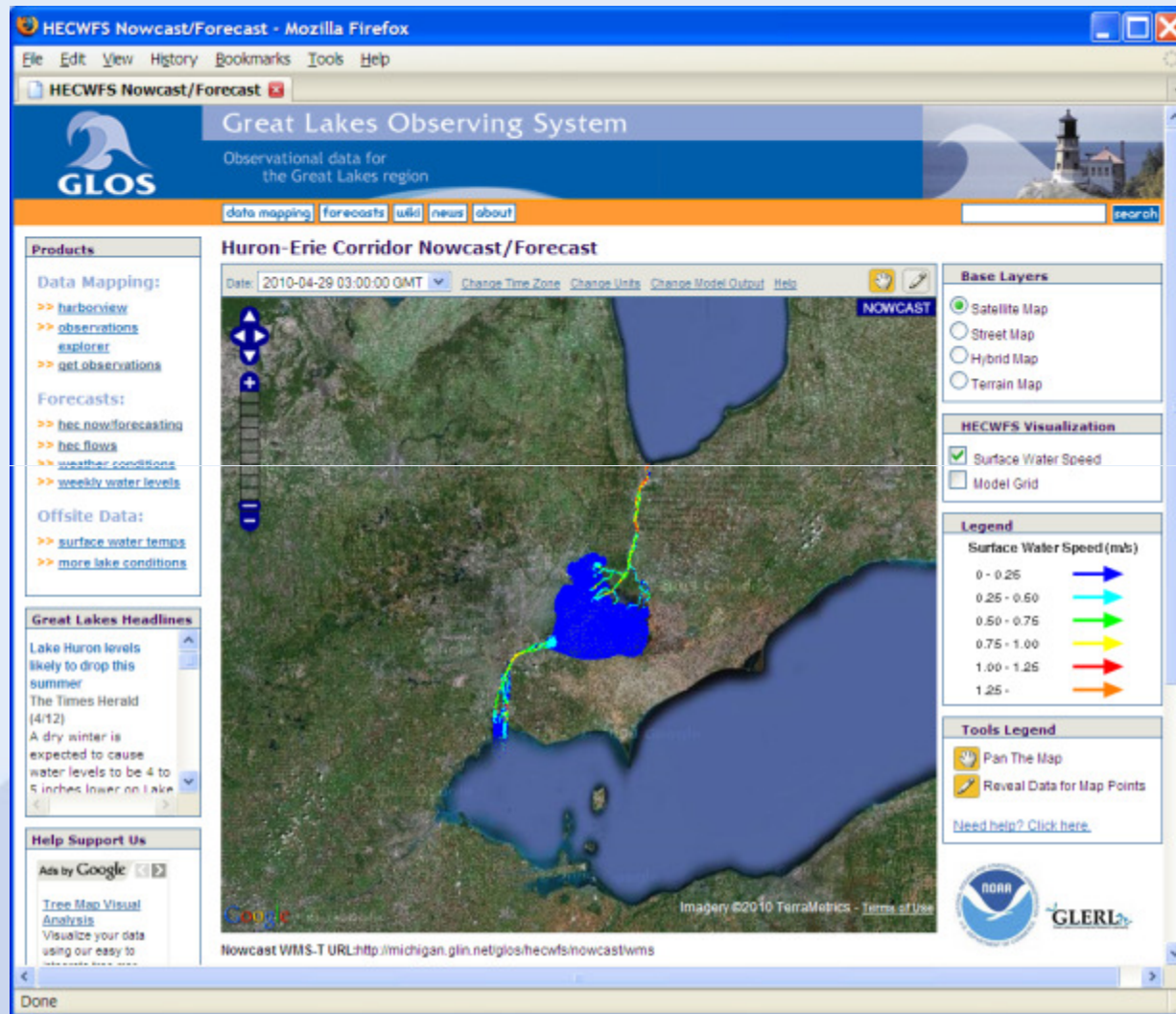
View more station data Subscribe to station data Help

Browse Observations Through the Gallery (10 pictures randomly selected, picture courtesy of NDBC and Boatnet.com)

Click on a picture to view the individual station page



# Charting a Course for Information Integration



## Charting a Course for Information Integration

- DMAC-accessible Data Resources
  - HEC data as web mapping service  
(resource for other online mapping projects)
  - HEC data as GIS data file  
(snapshot, but now ready for use in GIS)
  - HEC actual data via FTP
  - Great Lakes Model Inventory  
(data about models and where to find them)



## Charting a Course for Information Integration

- Activities
  - National DIF/DMAC calls
  - Coordination with NWS, GLERL
  - Data/models merger with USGS
  - IOOS Product Developers Workshop



## Charting a Course for Information Integration

- Next Steps
  - Catalog of real-time federal observations
  - THREDDS catalog generator
  - SOLEC Indicator visualization page

