US ERA ARCHIVE DOCUMENT

# Great Lakes National Program Office Role in Developing a Great Lakes Observing System (GLOS)

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# **Integrated Ocean Observing System**

- Global Ocean Observing System
  - Intergovernmental Oceanographic Commission
  - World Meteorological Organization
  - United Nations Environment Program
  - International Council for Science
- U.S. GOOS
- Integrated Ocean Observing System
- Great Lakes Component

## National Federation of Regional Systems



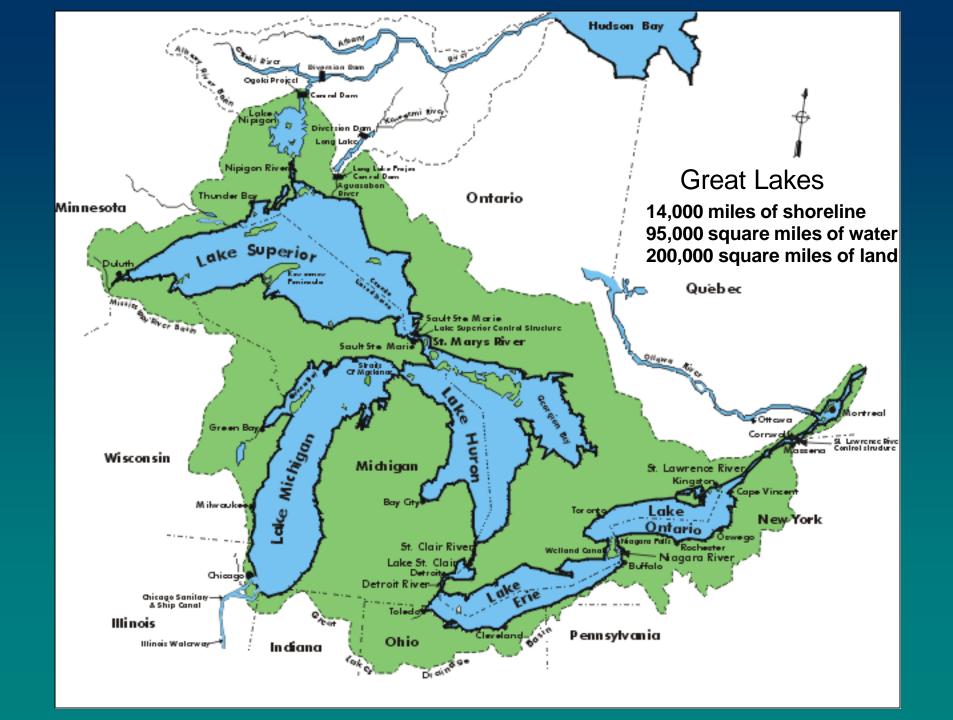
## **Integrated Ocean Observing System**

# Observations will be needed to produce products and services required by a broad community of users for:

- Detecting and predicting open water components of climate variability
- Facilitating safe and efficient marine operations
- Ensuring national security
- Managing resources for sustainable use
- Preserving and restoring healthy ecosystems
- Mitigating natural hazards
- Ensuring public health

# Integrated Ocean Observing System

- Global component (climate, marine services, security and defense) will be federally funded
- Regional enhancements will be locally driven
- Products and services will be developed by a wide range of entities

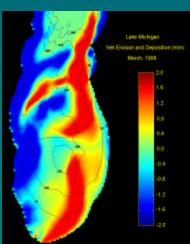


## **Data Components**

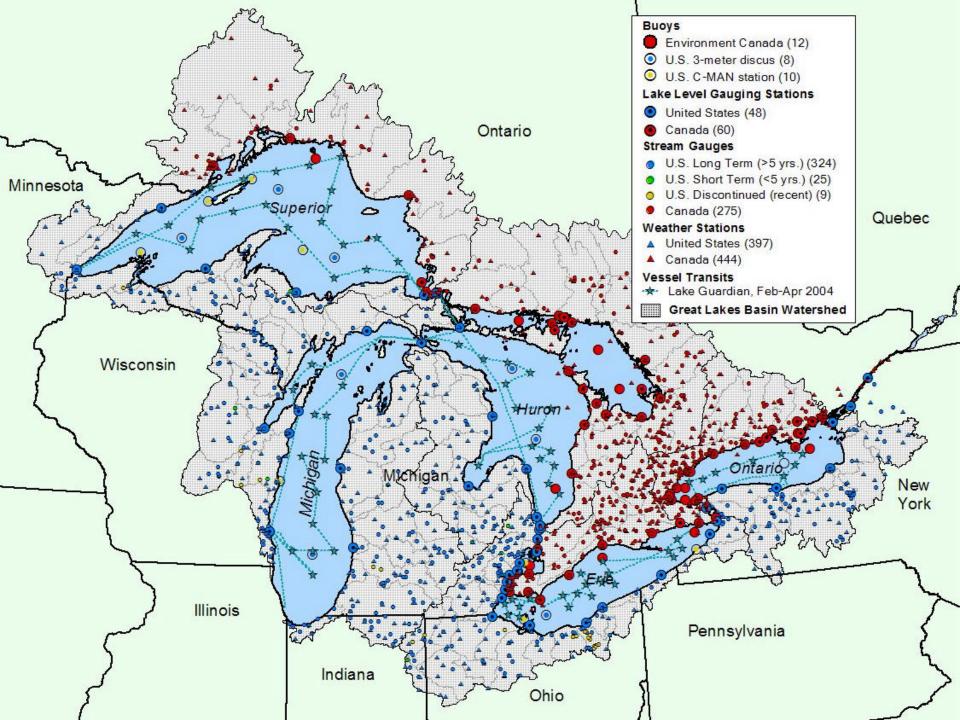
- Buoy systems
- **■** Coastal and riverine sensors
- Satellite observations
- Field measurements
- Ship observations
- Aerial observations

## Meteorologic, Hydrologic, Hydraulic, Chemical and Biological Data









#### **User Community**

Provide input on data and product needs

- Commercial Shipping Industry
- Commercial and Sports Fishing
- Recreational Boaters
- Emergency Responders
- National Security
- Restoration Management
- Coastal Research
- Other Affected Interest Groups

#### The system will focus on:

- Coordination of data collection between U.S. and Canada
- Integration of large, distributed data holdings
- Interoperable data archives
- **■** Easy data discovery, evaluation and access
- Development of improved products
- Interface to national information backbone
- Improved public access to information



#### **Objective:**

Develop the organizational infrastructure for a Regional Observing System node to coordinate data collection, modeling and product development for the Great Lakes, their Connecting Channels and the St. Lawrence River



#### Time-Line:

One year - began in October 2003

#### The Business Plan will focus on:

- Governance for the regional association
- Coordination of binational programs
- Coordination of large, distributed data holdings
- Integrated archival systems
- Easy data discovery, evaluation and access
- Standardization of value-added products
- Integration of agency web pages
- Interface to NOAA-DMAC
- Improved public access to information



#### **Project Steering Committee Members:**

- International Joint Commssion (CGLRM)
- Federal (NOAA, USCG, FWS, EPA, USACE, Sea Grant)
- Canadian (EC, DFO-MEDS)
- Academic (Wisconsin, Ohio State, Minnesota Duluth)
- NGOs (GLC)
- Consultants

#### **Anticipated Regional Associates**

Provide data, system component management, long-term system support

- Great Lakes Fishery Commission
- U.S. Coast Guard
- U.S. Environmental Protection Agency
- U.S. Army Corps of Engineers
- Department of Homeland Security
- U.S. Geological Survey
- St. Lawrence Seaway Development Corporation
- St. Lawrence Seaway Authority
- Environment Canada
- Department of Fisheries and Oceans
- Canadian Coast Guard
- States and Provinces
- Sea Grant Institutions
- Academia













Environment Canada

Environnement Canada



Fisheries and Oceans Canada

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Pêches et Océans Canada



























#### Major Tasks – Year One

- **■** Convene Project Steering Committee
- Identify Regional Associates and User Community
- Develop and Update GLOS Web Page
- Draft GLOS Business Plan
- **■** Conduct GLOS Conference
- **Finalize GLOS Business Plan**

## **Building a Great Lakes Observing System**

#### Proposed Major Tasks – Year Two

- **■** Develop MOUs for Regional Associate commitments
- Implement data synthesis demonstration
- Implementation planning
- Advance communications
- Address sustainability issues

# **Questions for You !!!!**

- 1. Where do you think that we should put specific focus on in the business plan?
- 2. What information content should we insure is incorporated?
- 3. What benefits would GLASS like us to stress?