

# NOAA IN THE GREAT LAKES

*From the atmosphere above to the water below, the National Oceanic and Atmospheric Administration (NOAA) monitors and predicts changes in the Great Lakes to protect lives and property, promote economic vitality, and manage coastal resources.*

*...from weather warnings to climate forecasts*

*...from satellites surveying the earth to navigation charts at your fingertips*

*...from Great Lakes research to coastal protection and management*

*NOAA in the Great Lakes is working with regional partners, other federal agencies, states, cities, tribes, and industry in conjunction with the efforts of the Great Lakes Regional Collaboration Strategy and NOAA's mission to bring you the following initiatives:*

**Beach Water Quality Forecasting:** This initiative facilitates the development and implementation of a beach and water quality forecasting system for the Great Lakes that will provide decision support for beach and coastal zone managers through close coordination with EPA, USGS and regional managers.

**Climate:** This initiative assesses the needs of stakeholders in the Great Lakes region related to climate change. After the initial assessment, the results will be compiled and analyzed to develop a plan for NOAA's role in Climate Change in the Great Lakes region.



**Maritime Heritage:** This initiative assesses the NOAA Great Lakes maritime heritage resources and promotes their existence. The Great Lakes have an incredible maritime heritage, and NOAA's role is to protect and to promote the value of these trusted resources.

**Restoration:** This initiative uses the strong scientific expertise of NOAA to develop collaborative, integrated science-based restoration strategies. By working with customers, partners and stakeholders this initiative facilitates activities as they relate to NOAA restoration capabilities in the region.

**Information and Indicators:** This initiative works with the Great Lakes Observing System (GLOS) to address user based needs and requirements for data accessibility and collection in the Great Lakes region. Other initiative activities include documenting the measurable impacts of cross cutting communication and leveraging NOAA's existing programs aimed at collecting economic and human dimension data.

## Engaging Stakeholders

NOAA's collaboration in the Great Lakes has brought together a diverse group of stakeholders to provide forums to discuss NOAA's products, services and research to facilitate improvements and pre-eminence.

Through these stakeholder forums NOAA in the Great Lakes has heard input on climate, restoration, navigation services, and NOAA's products and services.

The next step in engagement for NOAA stakeholders will be to gather their input for the next NOAA-wide strategic plan, to have specific solutions for the problems that impact the region.



Through collaboration, NOAA's Great Lakes Regional Collaboration seeks to develop and enhance geographically specific solutions to better serve the Great Lakes community and the nation.

## Working with Partners

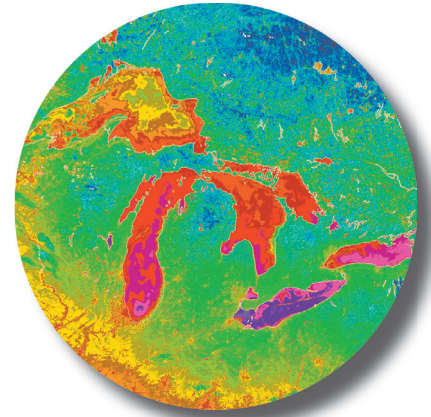
Collaboration would not be possible without the numerous partners in the Great Lakes region. The collaboration effort includes contributions and partnerships with:

- Great Lakes Sea Grant Network
- Midwest Regional Climate Center
- Great Lakes Observing System
- Cooperative Institute for Limnology and Ecosystems Research
- Coastal Zone Management

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## Navigation

**Services:** This initiative creates a safer marine transport system for the Great Lakes by gathering information from stakeholders regarding product usage and needs to develop or enhance existing products based on feedback.



**Coastal Strategy:** This initiative informs collaborative partners of NOAA's leadership in Coastal Strategy Implementation and the relevant coastal elements.

**Outreach and Communications:** This initiative facilitates communication amongst the 880+ employees in the Region and gathers input from Great Lakes stakeholders on key issues to the region and NOAA's products and services.

**Aquatic Invasive Species:** This initiative enhances the communication of issues, scientific knowledge, existing data, and management techniques pertaining to Great Lakes aquatic invasive species via broader application of regional and national outreach and education initiatives.

## What are the capabilities of NOAA in the Great Lakes?

- 7 State College Sea Grant Programs
- 2 Cooperative Institutes
- National Marine Sanctuary Program at ThunderBay
- National Estuarine Research Reserve at Old Woman Creek
- 8 Coastal Zone Management Programs
- 8 Geodetic Survey Representatives
- 23 Weather Forecast Offices
- 40 facilities

And, our greatest resource—the 880+ employees in the Region