



NOAA in Your Backyard – The Great Lakes Region

NOAA in Your State – State by State Listings of NOAA Facilities and Programs

* A summary of NOAA facilities, staff, programs, or activities based in, or focused on, your state or territory.

- <http://www.legislative.noaa.gov/NIYS/>

National Weather Service – School Visits, Forecast Office Tours, Student and Educator Resources

* The National Weather Service provides weather, hydrologic, and climate forecasts and warnings for the United States, its territories, adjacent waters and ocean areas.

- **Chicago Weather Forecast Office (Chicago, IL)** – <http://www.crh.noaa.gov/lot/?n=office>
Contact: Jim Allsopp (Warning Coordination Meteorologist) - jim.allsopp@noaa.gov
- **Detroit/Pontiac Weather Forecast Office (White Lake, MI)** – <http://www.crh.noaa.gov/dtx/?n=office3>
Contact: Richard Pollman (Warning Coordination Meteorologist) - richard.pollman@noaa.gov
- **Buffalo Weather Forecast Office (Buffalo, NY)** – <http://www.erh.noaa.gov/buf/tours.htm>
Contact: Judith Levan (Warning Coordination Meteorologist) - judith.levan@noaa.gov
- **Duluth Weather Forecast Office (Duluth, MN)** – <http://www.crh.noaa.gov/dlh/?n=science>
Contact: Carol Christenson (Warning Coordination Meteorologist) - carol.christenson@noaa.gov
- **Not in one of the above areas. Find Your Local Weather Forecasting Office** at – <http://weather.gov/>
- **Great Lakes Marine Forecasts** – <http://www.nws.noaa.gov/om/marine/zone/gtlakes/glcstmz.htm>

National Estuarine Research Reserve System – Field Trips, Professional Development, Educator Resources

* The National Estuarine Research Reserves System protects more than 1.3 million coastal and estuarine acres in 28 reserves located in 22 states and Puerto Rico for purposes of long-term research, environmental monitoring, education and stewardship.

- **Old Woman Creek Reserve (OH)** – <http://www.dnr.state.oh.us/tabid/15312/Default.aspx>
Contact: Ann Keefe (Education Coordinator) - ann.keefe@dnr.state.oh.us
- **Lake Superior Reserve (WI)** – <http://lsnerr.uwex.edu/>
Contact: Deanna Erickson (Education Coordinator) - deanna.erickson@ces.uwex.edu

Great Lakes Environmental Research Laboratory (MI) – Student Opportunities, Laboratory Facilities, NOAA Scientists

* GLERL was formed in 1974 to provide a focus for NOAA's environmental and ecosystem research in the Great Lakes and coastal marine environments.

- **Central Offices** – <http://www.glerl.noaa.gov/pr/edu/education.html>
Contact: Rochelle Sturtevant (Regional Sea Grant Extension Educator) - rochelle.sturtevant@noaa.gov
- **Center of Excellence for Great Lakes and Human Health** – <http://www.glerl.noaa.gov/res/Centers/HumanHealth/>
Contact: Sonia Joseph Joshi (Outreach Coordinator) - sonia.joseph@noaa.gov
- **Lake Michigan Field Station (Muskegon, MI)** – <http://www.glerl.noaa.gov/lmfs/>
Contact: Dennis Donahue (Marine Superintendent) - dennis.donahue@noaa.gov

NOAA National Marine Sanctuaries – Field Trips, Professional Development, Educator Resources

* NOAA's 15 National Marine Sanctuaries serve as the trustee for the nation's system of marine protected areas, to conserve, protect, and enhance their biodiversity, ecological integrity and cultural legacy.

- National Website – <http://sanctuaries.noaa.gov/education/welcome.html>
- **Thunder Bay Sanctuary (Alpena, MI)** – <http://thunderbay.noaa.gov/education/welcome.html>
Contact: Sarah Waters (Education and Outreach Coordinator) - sarah.a.waters@noaa.gov



Great Lakes Bay-Watershed Education and Training (B-WET) Program – Competitive Grants

* B-WET is an environmental education program that promotes locally relevant, experiential learning in the K-12 environment.

- <http://thunderbay.noaa.gov/B-WET/>
Contact: Cathy Green (Great Lakes BWET Program Manager) - cathy.green@noaa.gov

Great Lakes Observing System (GLOS) – Curriculum, Great Lakes Data and Models

* The Great Lakes Observing System is a coordinated network of people, equipment and technology working together to provide data about the Great Lakes in a variety of formats and applications.

- <http://www.glos.us/projects/education>
Contact: Sara Maples (Program Coordinator) - smaples@glos.us

Great Lakes Information Network (GLIN) – Great Lakes Lessons, Educator Discussion Board, Background Information

* GLIN is a partnership that provides one place online for information related to the binational Great Lakes-St. Lawrence region of North America, including data and information about the region's environment, economy, tourism, education and more.

- <http://www.great-lakes.net/teach/>
Contact: Christine Manninen (Communications Director) - manninen@glc.org

Cooperative Institute for Limnology and Ecosystems Research – Seminar Series, Student and Educator Resources

* CILER's vision is to enhance the quality of the Great Lakes ecosystem through partnerships between universities, NOAA scientists, and other stakeholders and translate their research into productive outcomes through outreach and education.

- <http://ciler.snre.umich.edu/education>
Contact: Sander Robinson (Outreach Director and Administrative Coordinator) - sanderdr@umich.edu

National Sea Grant Program – Professional Development, Curriculum, Student and Educator Resources

* Sea Grant is a nationwide network of 32 university-based programs that conduct scientific research, education, training, and extension projects designed to foster science-based decisions about the use and conservation of our aquatic resources.

- **Illinois-Indiana Sea Grant** – http://www.iisgcp.org/education/topics_education.html
Contact: Robin Goettel (Associate Director for Education) - goettel@illinois.edu
- **Michigan Sea Grant** – <http://www.miseagrant.umich.edu/education/index.html>
Contact: Steve Stewart (Senior Extension Educator) - stew@msu.edu
- **Minnesota Sea Grant** – <http://www.seagrant.umn.edu/educators/>
Contact: Cindy Hagley (Environmental Quality Extension Educator) – chagley@umn.edu
- **New York Sea Grant** – <http://www.seagrant.sunysb.edu/articles/t/focus-on-education>
Contact: Helen Domske (Coastal Education Specialist) - hmd4@cornell.edu
- **Ohio Sea Grant** – <http://ohioseagrant.osu.edu/education/>
Contact: Rosanne Fortner (Education Coordinator) - fortner.2@osu.edu
- **Pennsylvania Sea Grant** – <http://seagrant.psu.edu/education/education.htm>
Contact: Marti Martz (Coastal Outreach Specialist) - mam60@psu.edu
- **Wisconsin Sea Grant** - <http://www.seagrant.wisc.edu/home/ResourcePages/Educators.aspx>
Contact: Phil Moy (Assistant Director for Research and Outreach) - pmoy@aqua.wisc.edu

Midwest Regional Climate Center (MRCC) – Student and Educator Resources, Climate Data, Citizen Science

* The MRCC serves the nine-state Midwest region to better explain climate and its impacts on the Midwest, provide practical solutions to specific climate problems, and develop climate information for the Midwest on climate-sensitive issues such as agriculture, climate change, energy, the environment, human health, risk management, transportation, and water resources.

- <http://mcc.sws.uiuc.edu/>
Contact: Molly Woloszyn (Extension Climatologist) - mollyw@illinois.edu

National Ocean Science Bowl (NOSB) – Regional Competitions in the Ocean Sciences

* The NOSB is a national high school academic competition with regional competitions for student teams to test their knowledge of the marine sciences including biology, chemistry, physics, and geology.

- **Find Your Region:** <http://www.nosb.org/competitions-2/regional-competition-map/>



Centers for Ocean Science Education Excellence (COSEE) – Educator Workshops, Resources, Connect to Scientists

**COSEE is a network of over 270 institutional partners with the mission to spark and nurture collaborations among research scientists and educators to advance ocean discovery and make known the vital role of the ocean in our lives.*

- National Website – <http://www.cosee.net/>
- **COSEE Great Lakes** (new PD opportunities and archived resources) – <http://coseegreatlakes.net/>

Great Lakes Data Resources – Historical and Real-Time Data

- Great Lakes Aquatic Nonindigenous Species Information System – <http://www.glerl.noaa.gov/res/Programs/glansis/>
- Great Lakes CoastWatch – <http://coastwatch.glerl.noaa.gov/> or <http://www.coastwatch.msu.edu/>
- Great Lakes Coastal Forecasting System – <http://www.glerl.noaa.gov/res/glcfs/>
- Rip Current Forecasts – <http://www.ripcurrents.noaa.gov/forecasts.shtml>
- Great Lakes Bathymetry - <http://www.ngdc.noaa.gov/mgg/greatlakes/greatlakes.html>

Local Weather Events – Local Historical Weather Data

- Lake Effect Snow – <http://www.crh.noaa.gov/dlh/?n=lakesnow>
- Science-Weather Events in Northern Illinois and Northwest Indiana – <http://www.crh.noaa.gov/lot/?n=science>
- Historical Weather Events in Northern New York – <http://www.erh.noaa.gov/buf/recwx.htm>
- Historical Weather Events in Northern Ohio – http://www.erh.noaa.gov/cle/wx_events/local_interest.html
- Extreme Weather Events in Southern Wisconsin – http://www.crh.noaa.gov/mkx/?n=documented_storms
- Great Lakes Hurricane of 1913 - http://www.crh.noaa.gov/dtx/stm_1913.php

NOAA Science On a Sphere® (SOS) Locations – Earth Systems Data Shown on a 6-foot Globe

**SOS is a room-sized, global display system that uses computers and video projectors to display planetary data onto a six foot diameter sphere, analogous to a giant animated globe. It was developed by researchers at NOAA to help illustrate complex environmental processes (atmospheric storms, ocean currents, climate change, etc...) in a captivating way.*

- Aldo Leopold Nature Center (Monona, WI) – <http://www.naturenet.com/alnc/>
- Boonshoft Museum of Discovery (Dayton, OH) – <http://www.boonshoftmuseum.org/>
- The Detroit Zoo (Royal Oak, MI) – <http://www.detroitzoo.org/>
- Museum of Science and Industry (Chicago, IL) – <http://www.msichicago.org/>
- National Museum of Surveying (Springfield, IL) – <http://www.surveyingmuseum.org/>
- Science Museum of Minnesota (St. Paul, MN) – <http://www.smm.org/>
- Thunder Bay National Marine Sanctuary (Alpena, MI) – <http://thunderbay.noaa.gov/welcome.html>