Tools and Resources for Climate Adaptation Work in the Great Lakes

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The Great Lakes Regional Integrated Sciences and Assessments Center (GLISA) is a collaboration of the University of Michigan, Michigan State University, and The Ohio State University, with funding from the National Oceanic and Atmospheric Administration. The economy of the Great Lakes Region and the wellbeing of its residents will be greatly affected by regional and local changes to the climate. Climate change is likely to reduce lake levels, shift patterns of precipitation, and alter average seasonal temperatures.

GLISA spotlights three critical sectors in the region—agriculture, watershed management, and natural resources-based recreation and tourism—which are interconnected through issues of water quality and quantity. GLISA focuses on the watersheds of Lake Huron and Lake Erie located in the states of Michigan and Ohio and the province of Ontario, but its reach encompasses the broader Great Lakes basin.

http://www.glisa.umich.edu/
Welcome to the Adaptation Collaboratory!

This website is a resource for research, education, and climate change. It is funded by the National Science Foundation Lakes Project, and our team at Notre Dame, and our outreach partners, invite you to share your information on climate change adaptation. Click on a task in the slide menus and start adapting!

If you are new to our site, you might start with our...
Climate Ready Great Lakes
Nonpoint-Source Pollution and Erosion Comparison Tool

Overview

Use the Nonpoint-Source Pollution and Erosion Comparison Tool (N-SPECT) to investigate potential water quality impacts from development, other land uses, and climate change. N-SPECT was designed to be broadly applicable, but the tool operates most accurately in medium-to-large watersheds having moderate topographic relief.

New publication describes regional pollutant coefficient development

N-SPECT version 1.5.1 is now available

Features

- Provides projections and maps of surface water runoff volumes, pollutant loads, pollutant concentrations, and total sediment loads
- Helps users see areas that might benefit from changes to proposed development strategies
- Processes digital elevation data quickly and easily
- Provides a means to analyze "what if" and use change scenarios

Featured Resources

- Digital Coast Webinar Series
- Coastal Inundation Toolkit
- Offshore Renewable Energy Planning
- State of the Coast
- Conservation Coastal Wetlands for Sea Level Rise Adaptation
- Mississippi Geospatial Clearinghouse

Approaches

- Coastal Inundation Toolkit
- Offshore Renewable Energy Planning
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- Mississippi Geospatial Clearinghouse

In Action
And more!

- NOAA’s Adapting to Climate Change a Planning Guide- A Great Lakes Supplement

- NWF- EcoAdapt’s *Restoring the Great Lakes’ Coastal Future*

- CIG-ICLEI’s Preparing for Climate Change – A guidebook for local, regional, and state government
Great Lakes Observing System

Fisheries Tool Promotes collaboration among resource managers and researchers > Learn more

FEATURED TOOLS

Great Lakes Acoustic Telemetry Observation System
A few more!

• Climate Witness- tell your climate story!
• CRiSTAL- Community-based Risk Screening Tool