

# Cooperative Institute for Limnology and Ecosystems Research

## Office of Oceanic and Atmospheric Research

CILER is hosted by the University of Michigan's School of Natural Resources and Environment. CILER fosters collaborative research between NOAA and university partners that benefits the Great Lakes and its communities. CILER also trains upcoming researchers through student and postdoctoral fellowships.

CILER research focuses on five themes that aim to improve scientific understanding and the prediction of key physical, chemical and biological processes in order to facilitate the restoration, protection and management of Great Lakes natural resources. **Great Lakes Observing and Forecasting:** Improve access to historical and real-time climatic, meteorological, chemical, biological and geological data about the Great Lakes ecosystem in order to improve the forecasting of the physical and ecological processes in the region.

**Invasive Species:** Monitor, manage and predict the impacts of established and potential Great Lakes non-indigenous species. **Ecological Risk Assessment:** Document the causes and consequences of emerging physical, chemical and biological stressors in the Great Lakes basin that stem from industrial, domestic and municipal sources. Evaluate short and long-term effects that multiple stressors have or could have on Great Lakes ecosystems. **Protection and Restoration of Ecosystem Services: Linking to Human Dimensions:** Promote and improve the conservation and preservation of Great Lakes natural, cultural, aesthetic and social resources by performing integrated research that determines ecological tipping points, encourages sustainability, and helps coastal communities determine and develop adaptive management plans. **Education and Outreach:** Disseminate research data to the general public and provide education and training opportunities for students and teachers.



The Great Lakes, showing seasonal algal blooms (green) in Saginaw Bay, Lake Huron and predominantly the western basin of Lake Erie. Also shown in light blue is resuspended sediment. Credit: NASA



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