

The Great Lakes RISA Team

GLISA is supported by the NOAA Climate Program Office as one of the nation's RISA (Regional Integrated Sciences and Assessments) teams whose mission is to enable local, state and regional partners to better understand, plan for, and address the long-term preparedness needs of their residents.



RISA
Regional Integrated Sciences and Assessments

cpo.noaa.gov/RISA

Key Partners & Sectors

<p>Agriculture</p>	<p>Coast</p>
<p>Public Health</p>	<p>Natural Hazards</p>
<p>Defense</p>	<p>Economy</p>
<p>Tribes</p>	<p>Urban Adaptation</p>
<p>Infrastructure</p>	<p>Water Resources</p>

Who We Are

GLISA works at the boundary between physical science and decision-makers, striving to enhance Great Lakes communities' capacity to understand, plan for, and respond to weather and climate hazards now and in the future. Since 2010, GLISA's team of physical and social scientists has served all eight U.S. states that border the Great Lakes.

What We Do

- Investigate and understand emerging weather and climate issues in the Great Lakes region and synthesize findings
- Facilitate collaborative activities, education, and training
- Translate existing scientific information and customize it for Great Lakes communities
- Develop, implement, and evaluate resources and tools that support decision making

How We Engage

GLISA engages with partner organizations - boundary organizations that have trusted relationships with decision makers and communities - to bridge the gap between physical science and users of weather and climate information. This boundary chain approach helps GLISA connect communities with weather and climate information, while creating opportunities to collaboratively develop new tools and resources.

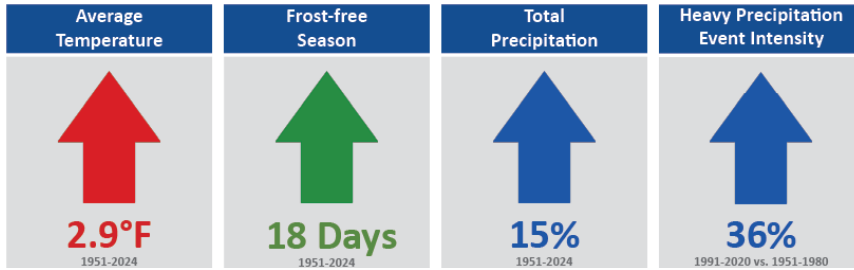


GLISA has administered its Small Grants Program since 2011 to fund 30+ new partnerships and projects with boundary organizations that advance GLISA's mission and local adaptation action.



October 2022 scenario planning workshop in Erie, PA (left). Photo by Kim Channell. GLISA Director, Jenna Jorns, opening the 2018 Great Lakes Adapataion Forum in Ann Arbor, MI (right). Photo by Alex Basaraba.

Data & Information Resources



Infographic from Climate Trends in the Great Lakes Region Fact Sheet

Climate Trends in the Great Lakes Region Fact Sheet

Summary of climate trends and impacts for several sectors in the region.

Local Climatologies

Online climate summaries for over 240 stations and divisions.

Climate Hazard and Mitigation Planning (CHaMP) Tool

Interactive map with county-level climate data and hazard information.

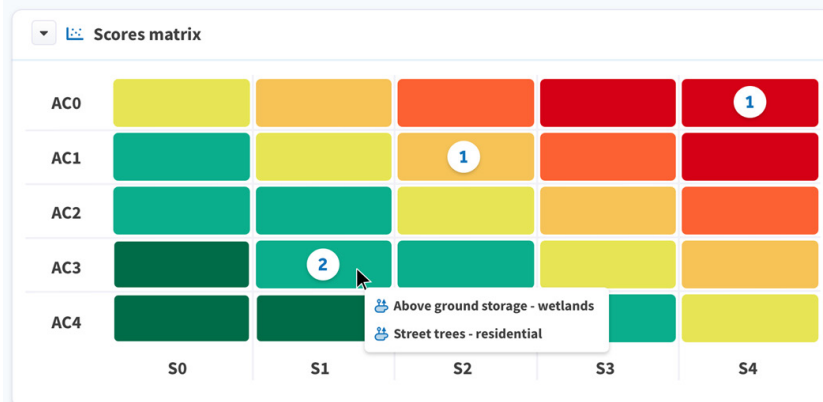
Practitioner's Guide to Climate Model Scenarios

Guidance to help identify credible and relevant climate projections.

Applied Tools & Engagement Approaches

Vulnerability scores

[Print report](#)



Customized vulnerability matrix available to 70+ participants in the FloodWise Communities program

FloodWise Communities

An online tool and engagement approach that helps practitioners complete stormwater vulnerability assessments that can be applied to planning and decision-making. Participants use customized climate and socioeconomic information to produce a vulnerability matrix and report.

Scenario Planning

An engagement approach used to describe and incorporate uncertainty into decision-making. GLISA utilizes customized scenarios, backed by climate models and projections, to explore a range of plausible futures and inform adaptation planning.

Participatory GIS Urban Development Tool (PIVOT)

A crowdsourced decision support tool that enables communities to prioritize specific areas for development based on existing data and their understanding of residential needs on an online interface.

Testimonials

“The GLISA team was instrumental in providing the science, then also having someone to interpret that science. It’s really valuable to have a funder as a partner who is also providing targeted expertise.”

-Director of Planning, Alliance for the Great Lakes

“Working with GLISA’s FloodWise Communities program...was an easy and informative process that provided real value to Bayfield County. The collaboration helped us better understand our current flood resilience... This information supports ongoing hazard mitigation planning and equally important allows for better decision making around future infrastructure investments and emergency response coordination.”

-Highway Commissioner, Bayfield County Highway Department (WI)

Learn More & Connect

GLISA

Learn more at: glisa.umich.edu
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View a digital version of this flier to access hyperlinks to these resources and tools, and many more, at:

glisa.umich.edu/team-flier

