MICHIGAN DEPARTMENT OF
ENVIRONMENT, GREAT LAKES, AND ENERGY

The Importance of Coastal Resilience

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Setting the Stage

The Great Lakes Define Us

- Total coastline spans 4,530 miles.
- 21% of world's freshwater.
- Largest freshwater system in the world.

Keep your eyes on the coast (fun facts)

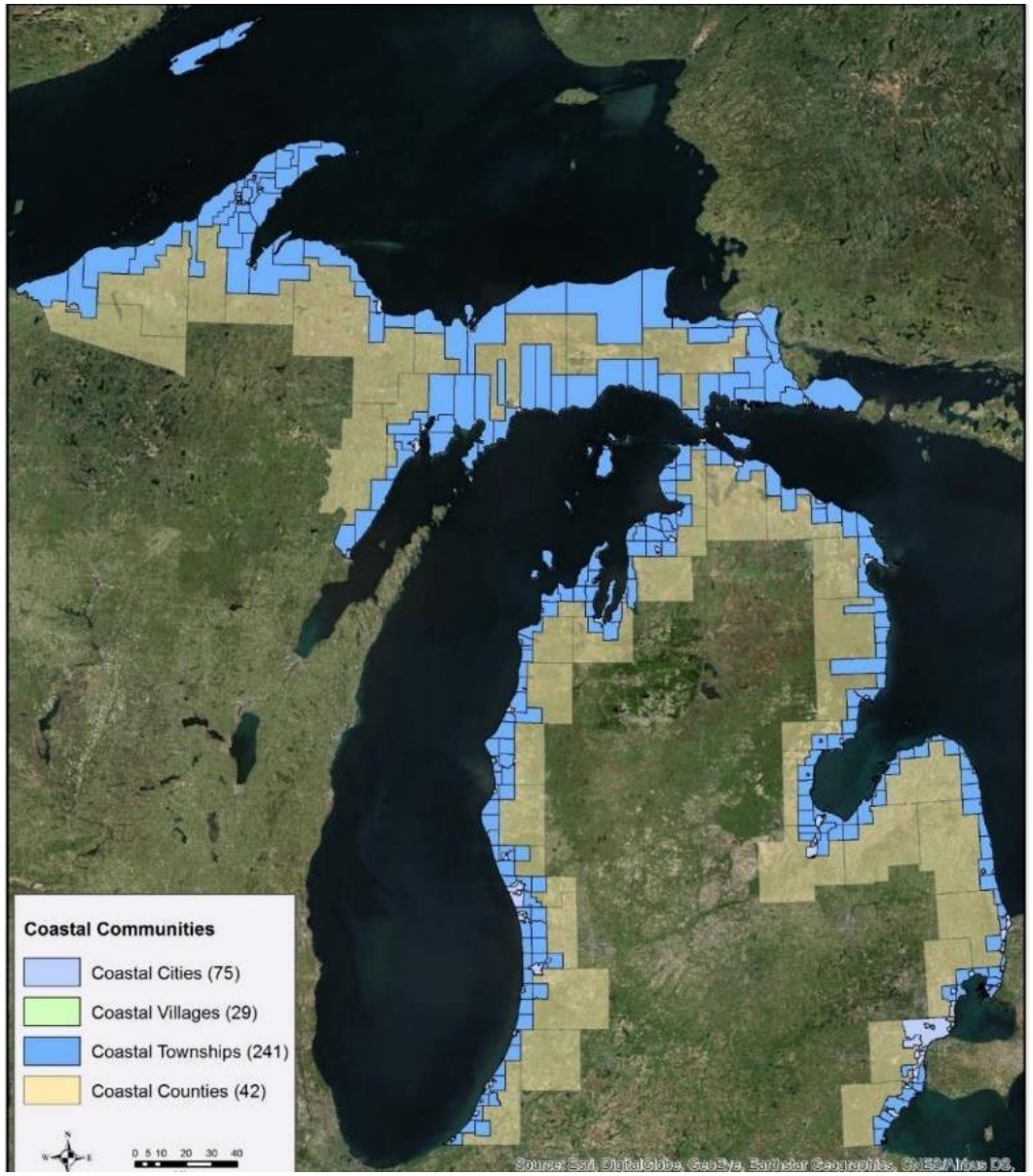
- Lake Michigan coastline has the largest freshwater sand dune systems.
- Michigan has the longest freshwater coastline at 3,288 linear miles of big coast.
- Michigan's coastline accounts for 62% of the coastline of the entire Great Lakes basin/8 states.



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What is Coastal Community Resilience?

Community resilience is defined as the sustained ability of a community to understand and use available resources to respond to, withstand, and recover from adverse situations.



Common Coastal Hazards

Erosion

Flooding

Erosion









Flooding

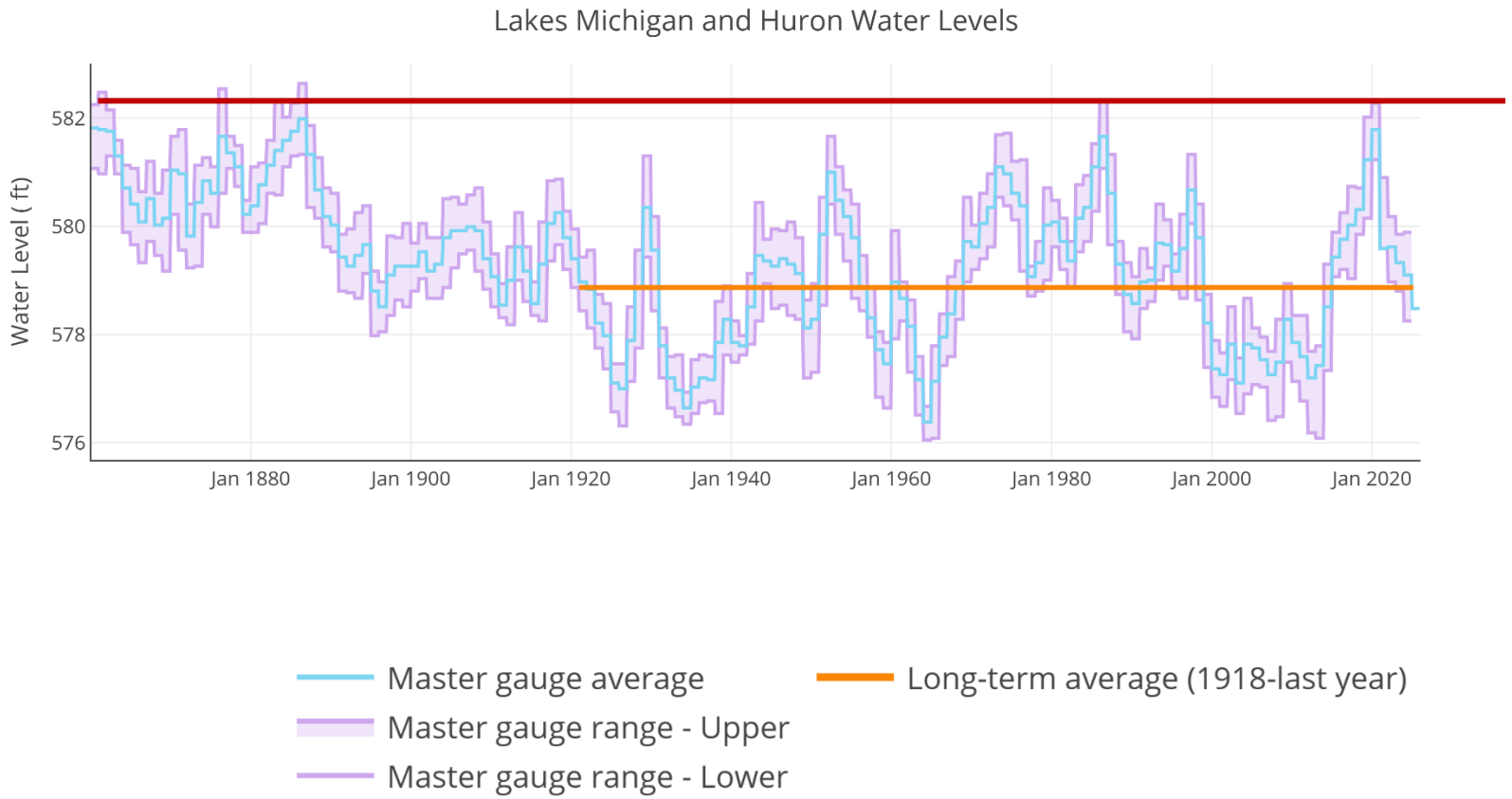




Why is Coastal Resilience Important?



The Reality of Life on the Great Lakes



Next High TBD

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Building Coastal Resilience Videos

The first step to become a resilient ready coastal community, is to ask if your community has the sustained ability to adapt and recover from the many forces of living on Michigan's coast. It is important for local officials and coastal property owners to make wise decisions for responding to and recovering from the negative impacts of coastal hazards.
To explore a six-part series on Building Coastal Resilience, visit CMCU's website.



Introduction to the Michigan Coastline



The Impacts of Water Levels and Weather



Protecting the Coast for Everyone

Coastal Leadership Academy:
Scenario-Based Planning and Policies Workshop

- Identify coastal hazards present in their community.
- Understand and use data resources to support resilient community planning.
- Identify stakeholders and context for action within their community.
- Identify resilient planning and zoning options to utilize in their community.



Coastal Leadership Academy:
Adaptation Strategies for Coastal Hazards Workshop



- Introduction to Adaptation Strategies:
  - Step Back and Give Space
  - Preserve, Protect, and Conserve.
  - Nature-Based Solutions.
- Identify project planning considerations and implementation resources.
- Identify best practices suitable for their communities.

Resilient Coastal Communities' Adaptation Strategies Toolkit



- Resilient Coastal Communities Adaptation Strategies Guide.
- Planting Guide.
- Local Governments Guide for Protecting Coastal Resources.
- Understanding Coastal Processes Guide.
- 24 Adaptation Practice Factsheets
- CLA Workshop.

MCMP Pathway to Resilience

- Coastal Leadership Trainings:
  - Scenario-based Plans and Policies
  - Adaptation Strategies for Coastal Hazard Resilience
  - Building Coastal Resilience

- Technical Planning and Design Support:
  - Guidance Manuals
  - Community-based and Site-Specific Factsheets



MICHIGAN DEPARTMENT OF
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Funding Coastal Resilience

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Michigan Coastal Management Program

Michigan Coastal Management Program established in 1978

A state-federal partnership with the National Oceanic and Atmospheric Administration

Federal-state-local partnerships

Coastal Communities Program

Michigan's Coastal Management Program (MCMP) is funded, in part, through the National Oceanic and Atmospheric Administration (NOAA), U.S. Department of Commerce, which supports a nationwide network of state-federal partnerships protecting America's fresh and saltwater coasts.

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MCMP Mission

To protect, preserve, restore, enhance, and wisely develop the coastal natural resources and cultural heritage on the nation's longest freshwater coastline.

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MCMP Grant Funding Opportunity

The Water Resources Division (WRD) is seeking projects that support the following goals:

- Promote resilience planning and adopt local policies.
- Take proactive actions to mitigate negative impacts of coastal hazards.
- Protect and restore healthy coastal ecosystems.
- Devise solutions for the nature-based solutions to slow the flow of stormwater.
- Enhance public access while protecting critical natural infrastructure.

MCMP Grant Funding Eligibility

Who is Eligible:

Eligible applicants include coastal communities (e.g., local units of government, cities, counties, villages, and townships), regional planning agencies, educational institutions (e.g., universities and school districts), Tribal governments, and nonprofit 501(c) organizations. As part of this program, grant awards must be able to comply with the United States Office of Management and Budget (OMB) guidance in subparts A through F of 2 CFR 200.

Who is Ineligible:

Ineligible applicants include federal agencies, for-profit organizations, private citizens, and homeowner associations. Additionally, ineligible applicants include organizations that have demonstrated past contractual performance issues; lack the ability to demonstrate organizational and/or financial stability to administer the grant; or inability to meet statutory, regulatory, or other requirements.

Ineligible Uses of Grant Funds

- Beach nourishment or dredging projects.
- All types of shoreline hardened structures (e.g., groins, seawalls or revetments).
- Projects located on private property.
- Permit, regulatory, or application fees such as 106 applications.
- Plans and designs for general recreational and athletic facilities (e.g., playgrounds, ball fields/courts, and restroom facilities).
- Construction of buildings, recreational facilities, or related structures.
- Funding for long-term operations, maintenance, management, or administrative costs.
- Reimbursement of expenses that have been incurred prior to the start of a grant agreement.

Project Types

Planning Projects	Feasibility, Engineering, and Design	Low-Cost Construction	Land Acquisition
• Community planning and zoning. • Community education and engagement. • Natural resource inventories, sampling, drone deployment, etc.	• Feasibility studies. • Conceptual plans. • Site inventories. • Soil boring. • Sediment characterization. • Topo surveys.	• Habitat restoration. • Adaptation Practices. • Boardwalks, trails, and kayak launches.	• Land conservation. • Public access easement.

Coastal Zone Program Boundary

PDF Maps:

Michigan.gov/CoastalManagement

Digital Map and Viewer:

GIS-Michigan.OpenData.ArcGIS.com



Grant Amounts, Match, and Award Period

Grant Amounts:

- All grants: minimum of $10,000.
- Planning grants: up to $100,000.
- Feasibility, design, and engineering grants: up to $150,000.
- Low-cost construction grants: up to $250,000.
- Land conservation through land acquisition grants: up to $500,000.

Match Requirement:

- A 1-to-1 local match (cash or in-kind) is required for all federal grants. The grant functions on a cost reimbursement basis, with supporting documentation required for all grant and match costs incurred and paid.

Award Period:

- Grants are anticipated to start as early as January 1, 2028, with a grant period of 12-months up to 18-months.

2028 Grant Funding Opportunity is Live!

- Applications are due via email by December 18, 2026
- Project idea? Fill out a Project Interest Form and submit to Ronda
  - Found the 2028 Grant Funding Opportunity webpage
- Webinar recording available

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