



COASTAL EROSION HAZARD MAPPING LAKE SUPERIOR'S NORTH SHORE

Project Outcomes

- Develop a tool that can be used to identify the suitability for development.
- Create a resource for property owners living along the coast
- Provide recommendations for property owners regarding conservation concerns/hazard erosion areas.

Why map erosion?

- Although data for Lake Superior's coastal region does exist, current mapping efforts do not directly address coastal erosion along the dynamic North Shore.
- Past efforts to map erosion on the North Shore occurred 30 years ago, rendering them outdated considering increased water levels and storm cycles – it's time for an update!

Who will benefit?

Property owners, public officials, local decision makers, realtors, developers, and researchers will all benefit from this mapping tool.

The main goal of the Coastal Erosion Hazard Mapping (CEHM) Task Force is to develop a web-based mapping tool that can be used to confidently identify areas along Lake Superior's North Shore that are susceptible to high rates of erosion.

For more information:
ARDC.ORG/CEHM



Erosion Facts

- Shoreline erosion affects landowner property values and structures, yet also impacts water quality and the habitat for critical species.
- At an average increase of 2 degrees per decade, Lake Superior's rising water temperatures are leading to more storm events causing erosion which put a stress on community infrastructure, economy, and resiliency.
- The Great Lakes Coastal Flood Study conducted by FEMA from 2018 found that Lake Superior's water levels are increasing which leads to increased wave action causing erosion on the North Shore.

Who is involved?

Partners involved with this project include:

- North Shore Management Board
- Lake and Cook County's Soil and Water Conservation Districts
- Arrowhead Regional Development Commission
- University of Minnesota Duluth
- Minnesota's Lake Superior Coastal Program
- Cook and Lake Counties