C-CHARM

CENTER FOR CLIMATE-DRIVEN HAZARD ADAPTATION, RESILIENCE, AND MITIGATION IN GREAT LAKES RURAL COMMUNITIES

C-CHARM is an initiative aimed at connecting community members, researchers, and stakeholders in the effort to better prepare our area for climate change

RURAL HAZARD RESILIENCE TOOLS (RHRT)

Wildfire and Flood Modeling

Our researchers assess risks that create conditions which cause wildfires and floods. These risks are displayed spatially in mapping tools for use in hazard mitigation planning. These tools currently include flood models, infrastructure data, and social data congregated on to one platform.

Economic Modeling

Winter weather conditions influence many people including winter tourism. With the benefit of data from multiple sources, our team is gathering and analyzing data of local businesses to better understand the complex economic impact of winter weather conditions.

COMMUNITY ENGAGEMENT

Public Feedback and Outreach

The modeling and economic research above is being co-produced with input from community members. Regular meetings with area administrators and professionals help steer the research topics which our team then develops for community use.

Additional Climate Monitoring

Team members are working with project partners to increase the capacity of climate monitoring in the Western UP. An advanced weather station will track and log data that will be shared publicly for use in future climate modeling and hosted live for community viewing.

COLLABORATORS

Michigan Tech · KEWEENAW BAY INDIAN COMMUNITY · MiSTEM Network · Great Lakes Indian Fish & Wildlife Commission · UPPCO · THE UNIVERSITY of MISSISSIPPI · Argonne NATIONAL LABORATORY · Western U.P. PLANNING & DEVELOPMENT REGION · KEDA KEWEENAW ECONOMIC DEVELOPMENT ALLIANCE Leading Economic Development in the Keweenaw