



Knowledge Sharing Seminar: Monitoring Wetland Extent with Satellites

Our Project

As part of NASA's Arctic-Boreal Vulnerability Experiment, our team at the Michigan Tech Research Institute is working with collaborators is changing. We utilize a special type of satellite sensor to measure wetland extent even in cloudy weather. The satellite data collected by the sensors helps to distinguish flooded areas from non-flooded areas. These data products are combined to give us estimates of what areas are flooded at various times throughout the year.

Our Goals

The work we do is driven by community needs. So far, information generated by our project has been used to better understand how waterfowl populations are adapting to a changing climate and to assess how wetland types are shifting over time. We are actively looking for new ways to use satellite-derived wetland products to help solve the unique problems faced by people in northern communities.

This seminar is meant to disseminate information on how we've built our wetland products, and to brainstorm best methods for stakeholder use.

Our Collaboration

By working with Indigenous communities, government agencies, nonprofit organizations, and other universities, we can leverage emerging technologies to co-produce knowledge that will benefit stakeholders across the North.

