



# North Central Climate Adaptation Science Center

*Generating the science to help resource managers in the North Central region adapt to a changing world*



## Who We Are

The North Central Climate Adaptation Science Center (NC CASC) is one of nine regional centers in a national network created to help natural and cultural resource managers prepare for changes due to a warming climate.

This center is a unique partnership between the US Geological Survey, the University of Colorado Boulder, and five consortium partners that serve the states of Colorado, Wyoming, Montana, North Dakota, South Dakota, Kansas and Nebraska.



## Our Consortium

- (1) University of Colorado Boulder (*Host*)
- (2) University of Montana
- (3) The Nature Conservancy
- (4) University of Wyoming
- (5) Great Plains Tribal Water Alliance
- (6) South Dakota State University
- (7) Colorado State University

## What We Do



**Science:** Interdisciplinary research, synthesis, datasets, and tool development, informed by collaboration with stakeholders to provide usable science and applicable for climate-informed resource management



**Partnerships:** Partnerships with regional stakeholders, Tribal Nations, and other organizations enable us to respond to high-priority natural and cultural resource management challenges and foster substantive, sustained engagement between scientists and managers



**Capacity Building:** Builds a community of researchers and managers and fosters their leadership in science-based resource management



**Communication and Outreach:** Communication and outreach are embedded in all aspects of the NC CASC's work and are integral to fostering our core values of equity, trust, communication and accessibility, and achieving our shared vision



## What can the NC CASC do to support practitioners?

The NC CASC provides climate science support to our community through collaborative research and integration of diverse science expertise. Through this network, called the Climate Science Support Platform (CSSP), the NC CASC acts as a “go-to” resource to provide climate service and expertise for stakeholders and managers. Here is how we can support you:



Guidance on the application of climate science and data for specific use cases



Provide data, synthesis, and customized climate change information for adaptation planning



Development of open-source tools for managers to access climate data; developing workflows to access climate data



Assess science, data, and training needs for stakeholders to create useful, accessible information to support resource managers



Synthesize project-specific climate information (e.g., climate summaries produced for US FWS species assessments)



Develop resource briefs and regional summaries

## Ongoing Research and Projects

- **Climate & Decision Support Tools:** includes future climate scenarios information, drought tools, R-Shiny apps to plot and extract observed and future projections data, and tools developed in collaboration with ClimateToolbox.org
- **Grasslands Synthesis Project:** synthesis effort to understand how climate change and variability will impact grassland ecosystems and their management in the 21st century
- **Rapid Climate Assessment Program:** aims to create synthesis of science information affecting the North Central region that can be used as a baseline for further research and a foundation for future stakeholder engagement.

See the NC CASC website for more information about these projects and other activities!

## Connect With Us

To keep up with our work or contact us, find us on social media:



@NC\_CASC



North Central Climate Adaptation Science Center



Youtube.com/NorthCentralCASC



nccasc@colorado.edu



[nccasc.colorado.edu](http://nccasc.colorado.edu)