The NC CASC: Generating the Science to Help Resource Managers **Adapt to a Changing World**

















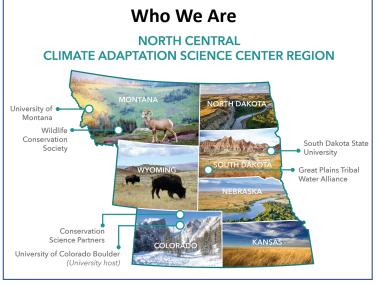
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Introduction: The North Central Climate Adaptation Science Center is one of nine regional centers in a national CASC network created to help resource managers prepare for changes due to a warming climate. The center is a unique partnership between the USGS, CU Boulder, and five consortium partners that serve the resource management community in the region that encompasses Colorado, Wyoming, Montana, North Dakota, South Dakota, Kansas, and Nebraska. In the last five years, the CU Boulder-hosted NC CASC has developed partnerships with regional stakeholders, Tribal nations, and other climatefocused organizations; substantially grown our communication and outreach program to create a community of researchers and managers; and conducted interdisciplinary climate adaptation research and tool development to help resource managers conduct climateinformed activities. We provide climate adaptation science services to our partners such as the US Fish and Wildlife Service and the National Park Service which includes tool development through our Climate Science Support Platform and synthesis activities such as Rapid Climate Adaptation assessments, NC CASC has provided climate science support for the Rosebud Lakota Tribe's climate adaptation plan, more than 15 FWS Species Status Assessments; and Scenario Planning activities for 5 National Parks.



Standardized Precipitation Index (SPI) - Observations & Future Projections

Standardized Precipitation Evapotra
Snowfall and Rainfall Projections











Science: Interdisciplinary research, synthesis, datasets, and tool development are informed by collaboration with stakeholders to provide usable science that is 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.

Climate Science Support Platform

