



# North Central Climate Adaptation Science Center

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## James Rattling Leaf, Sr., Robin O'Malley & Chad McNutt Receive Rising Voices Funding Award

Congratulations to James Rattling Leaf, Robin O'Malley and Chad McNutt who have been [awarded seed funding](#) from [Rising Voices](#) for their project "Enabling Tribal Data Sovereignty: Supporting Great Plains and Northern Rockies Tribes Data Needs". This project was one of three projects that received seed funding to catalyze their projects and advance the ethos of the Rising Voices Center for Indigenous and Earth Sciences. All entries for this funding opportunity represented important and cutting edge work that advances Indigenous science and action in the Earth sciences.



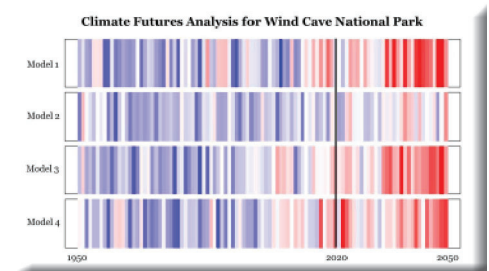
## NC CASC Fiscal Year 2022 Funding Opportunity

The NC CASC invites Statements of Interest (SOI) from eligible applicants for projects to be initiated in Fiscal Year (FY) 2022. Proposed projects should be high priority natural or cultural resource management issues that can benefit from climate-informed planning and adaptation management and pertain to priority research topics for the North Central Region.

**SOIs are due Friday, March 19th, 2021 at 3pm MST.** More information can be found on our [website](#).

## Climate Futures Toolbox Featured in USGS Project Spotlight

The Climate Futures Toolbox (CFT) was featured in USGS' latest [Project Spotlight](#) online. The NC CASC partnered with the National Park Service to create the CFT, a user-friendly software program designed to make climate data more accessible for park managers. NC CASC USGS Deputy Director, Aparna Bamzai-Dodson, and Earth Lab's Open Science Architect, Max Joseph, are quoted in the feature.





## Watch Anthony Ciocco's Recent Webinar on Tribal Climate and Wildlife Management

Anthony Ciocco, NC CASC's BIA Pathways Program Intern, presented the [webinar](#), "Conceptual Models for Integration of Tribal Culture with Tribal Wildlife Management" in January. He discussed his forthcoming presentation with proposed models for Traditional Ecological Knowledge (TEK) integration into Fish and Wildlife Management with the Navajo Nation as an example.

## Shelley Crausbay and Amanda Cravens Featured Speakers in Ecological Drought Webinar Series

A four-part Ecological Drought National Webinar Series, hosted by NIDIS, USGS, and the NC CASC is taking place in February and March 2021. Shelley Crausbay and Amanda Cravens at the NC CASC spoke at the first of four webinars on February 3rd and discussed ecological drought as a scientific concept and recent research on the topic. A [recording of the webinar](#) and more information can be found on the NIDIS website.



## James Rattling Leaf, Sr., Featured Speaker At Several Events, and in a Podcast Episode

NC CASC PI James Rattling Leaf, Sr., was featured in many events in January and February, including the American Meteorological Survey [101st Annual Meeting](#), an Inter-American Academy of Geosciences and Applications [webinar](#), a Posner Center [event](#), and an episode of the Warm Regards [podcast](#).

## Amanda Cravens and Robin O'Malley Co-Authors on NPS Report: Resist-Accept-Direct (RAD)—A Decision Framework for the 21st Century Natural Resource Manager

A [new report](#) titled Resist-Accept-Direct (RAD)—A Framework for the 21st-century Natural Resource Manager was recently published in the National Park Service Natural Resource Report series. The report introduces a decision framework that provides a simple tool that encompasses the entire decision space for managing ecosystems facing the potential for rapid, irreversible ecological change. It assists managers in making informed, purposeful choices about how to respond to the trajectory of change, and provides a straightforward approach to support resource managers in collaborating at larger scales across jurisdictions. Amanda Cravens, an NC CASC and USGS affiliate, and Robin O'Malley, the former USGS Director for the NC CASC were listed as co-authors on the report.





## ***University of Montana Partners Hold “Managing Post-Fire Vegetation Under Climate Change” Workshop***

NC CASC consortium partners, Phil Higuera and Kim Davis, University of Montana, held a workshop, “Managing Post-fire Vegetation Under Climate Change” on February 3-4, 2021 for land managers in the North Central region. Workshop goals included: (1) Share the state of knowledge on vulnerability to fire-catalyzed vegetation change and climate impacts on post-fire vegetation, (2) Share tools relevant to managing post-fire landscapes and solicit feedback from participants, and (3) Identify knowledge gaps and additional information that would help managers make decisions regarding post-fire vegetation management. A link to the recording of the workshop, plus presentation slides and the workshop agenda can be found in the Actionable Science Webinar section on our [Webinars](#) page.



## **Release of Climate Change Report and Habitat Management Plan From Partnership Between Wildlife Conservation Society and Wyoming Game and Fish**



A climate change workshop and other collaborative activities between Molly Cross, at the Wildlife Conservation Society (WCS), and Wyoming Game and Fish Department (WGFD), which was funded by the NC CASC, culminated in the release of two published plans. WCS produced a [climate change workshop report](#), and WGFD produced a revised [Statewide Habitat Plan](#). The National CASC office will be highlighting the project in an upcoming Project Spotlight and a peer-reviewed publication will be submitted later this winter.

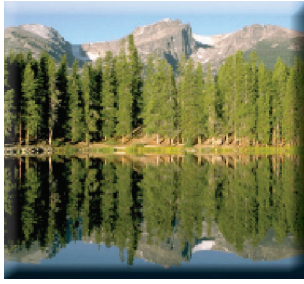
## ***Postdoc Christy Miller Hesed to Receive Awards***

NC CASC Postdoc Christy Miller Hesed and former colleagues are receiving two awards for their work on the Deal Island Peninsula Partnership at the Society for Applied Anthropology conference this March. Their work was selected for the Washington Association of Professional Anthropologists Praxis Award for outstanding achievement in translating anthropological knowledge into action. Read more about the awards on our [website](#).



## **NC CASC Tribal Climate Adaptation Newsletters Online**

Tribal Climate Adaptation Newsletters contain information relevant to tribal partners and are posted monthly on our [website](#). The [January](#) and [February 2021](#) newsletters are online. Interested parties can use [this link](#) to subscribe to the Tribal Climate Adaptation newsletter.



## Watch Our Latest Webinars on YouTube

In January, Joel B. Smith presented “Revised Thinking on Adaptation: Will We be Less Successful Than Assumed?” and in February, Koren N. Nydick presented “Drought, Wildfire, and Climate Change: From Scenarios to Real Life Through the Eyes of a Scientist-Land Manager.” Recordings of both webinars and information about upcoming webinars can be found on our [website](#). Our next webinar is scheduled for March 11th, 2021.

## FY2020 NC CASC-Funded Project Goes Live

PI: Crausbay (CSP): [Exploring the Past to Plan for the Future: Integrating Indigenous Knowledge and Paleoperspectives to Inform Climate Change Adaptation](#)

### Recent Publications

***Building Loss in WUI Disasters: Evaluating the Core Components of the Wildland-Urban Interface Definition*** • October 2020 • Fire Journal • Funded by NC CASC

***A climate change indicator framework for rangelands and pastures of the USA*** • November 2020 • Climatic Change • Funded by NC CASC

***Climate resilient management in response to flash droughts in the US Northern Great Plains*** • February 2021 • Current Opinion in Environmental Sustainability • Funded by NC CASC

***Human activities and weather drive contact rates of wintering elk*** • January 2021 • Journal of Applied Ecology • Geneva Chong, Funded by NC CASC

***Challenges to the Reforestation Pipeline in the United States*** • February 2021 • Frontiers in Forests and Global Change • Kimberley Davis

