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July 30, 2019



The North Central Climate Adaptation Science Center (NC CASC) has developed a Tribal Climate Adaptation Newsletter to be released quarterly in order to communicate resources, funding opportunities, and climate news to better connect science and resources to tribal communities in the north-central region.

In this Newsletter, you will find.

- [Announcements](#)
- [Funding Opportunities](#)
- [Upcoming Events](#)
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Featured Story:

Building Resilience with Tribal Technical Teams at Sac and Fox Nation

Extreme weather events like drought and flooding, as well as other climate related threats, are deeply impacting tribal nations throughout the north-central region of the United States. To address these issues, the Sac and Fox Nation of Missouri in Kansas and Nebraska hosted a workshop titled "Building Resilience with Tribal Technical Teams" as part of a grant funded by the Bureau of Indian Affairs Tribal Resilience Program. The event was the first in a series of 6 workshops focused on assisting tribal leaders and program coordinators and managers to develop and utilize skills to competently address the impacts of extreme climate events and harmful environmental trends.

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(Omaha) Tribe of Nebraska, Kickapoo Tribe in Kansas, Winnebago Tribe of Nebraska, Iowa Tribe of Kansas and Nebraska, Prairie Band of Potawatomi, and the Santee Sioux Tribe. The workshop was a 2-day event held June 18th through the 19th. Tribal resource managers were able to network with climate scientists and professionals to gain support necessary for building resilience to climate change within their communities.

Representatives from the North Central Climate Adaptation Center (NC CASC) facilitated and ran the workshop, and delivered presentations on climate adaptation planning processes, vulnerability assessments, and drought mitigation. Other participants included representatives from the National Oceanic and Atmospheric Administration (NOAA), NOAA's-National Integrated Drought Information System (NIDIS), High Plains Regional Climate Center (HPRCC), and Kansas State University Extensions.

Participating tribal resource managers stated that extreme events are occurring more frequently and are often overlapping, such as prolonged drought followed by intense flooding. Such events will continue to be a concern throughout the entire Missouri River system, and are motivators for tribal climate adaptation planning. Five more workshops are planned as a part of the Lower Missouri River Tribes Adaptation Planning grant. The next workshop, presented by the High Plains Regional Climate Center, is titled "Climate Summaries" and will be held this coming winter of 2020.

Announcements

Senators Request Feedback from Indigenous Community

On July 10th, U.S. Senators from New Mexico and Hawaii, along with Democratic members that sit on the Indian Affairs Committee and/or the Special Committee on the Climate Crisis, asked for input from American Indian, Alaska Native, and Native Hawaiian Community Leaders on the effects of climate change on their communities. Their goal is to foster a dialogue with Native communities on potential solutions and responses to the urgent consequences of climate change. Thoughts and comments are due by **September 13, 2019**. For the official letter, click [here](#). To submit a comment, send an email to Community_Leaders_Feedback@indian.senate.gov.

National Center for Environmental Information: June 2019 U.S. Climate Assessment

June of 2019 measured 0.2°F above the 20th century temperature average, ranking in the middle third of the 125-year record. A report released by NOAA's National Center for Environmental Information linked this temperature change with increased precipitation across the contiguous United States. Such changes in precipitation have impacted agricultural lands across the Plains/Midwest rivers, and may lead to drought

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Funding Opportunities

Luce Indigenous Knowledge Fellowship

A year-long fellowship sponsored by [First Nations Development Institute](#) (First Nations), in partnership with [The Henry Luce Foundation](#), will provide \$50,000 to each of the 10 chosen recipients. This fellowship is intended to support Native knowledge holders and makers engaged in leading meaningful work that embodies exceptional creativity, as well as progressive and critical thinking. Areas of expertise can include both Western knowledge fields and/or traditional Indigenous fields of knowledge. Applicants must also show potential to significantly move forward in their field in ways that will ultimately lead to broad, transformative impacts for Indigenous communities. The deadline to apply for the Luce Indigenous Knowledge Fellowship is **Friday, September 13, 2019**.

Learn more at: <https://www.firstnations.org/rfps/likf-1/>

Disaster Assistance for Tribal Organizations

The Department of Health and Human Services Administration for Community Living issued a grant for future major disasters declared by the President of the United States. Federally recognized tribal governments are eligible and encouraged to apply. Closing date for applications is **Monday, September 09, 2019**. For more information, visit. <https://www.grants.gov/web/grants/view-opportunity.html?oppId=309714>

Tribal Colleges Research Grants Program (TCRGP)

Grants offered through this program assist 1994 Land-Grant Institutions in expanding research capacity through applied projects that meet student educational needs and address community, reservation, or regional challenges. The grant is targeted towards Tribal Colleges offering disciplines in food and agriculture, or natural resource sciences. The grant will award between \$60,000 to \$500,000 to a tribal institution through a competitive review/selection process. Application Deadline is **Friday, August 9, 2019**. For more information, visit. <https://nifa.usda.gov/funding-opportunity/tribal-colleges-research-grants-program-tcrgp>

Environmental Health Research Grant

This funding opportunity announcement was released by the National Institutes of Health (NIH), and is intended to support environmental health research by studying the consequences of natural and man-made disasters or environmental public health threats. Federally recognized tribes are eligible to apply, with the closing date for application submissions **Tuesday, October 1, 2019**. For more information, visit.

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Upcoming Events

[Building Resilient Infrastructure and Communities: Tribal Stakeholder Input Sessions](#)

FEMA's Hazard Mitigation Assistance (HMA) Division is inviting federally-recognized tribes to attend a stakeholder input session that will provide a brief overview and ask for feedback on key topics in the development of the Disaster Recovery Reform Act of 2018 (DRRA), Section 1234 – also known as the "Building Resilient Infrastructure and Communities (BRIC) Program." The first session for this series will take place **Tuesday, July 30, 2019 1:00 PM - 3:00 PM ET**, and the second session will be held on **Thursday, August 1, 2019 2:00 PM - 4:00 PM ET**. For more information, click [here](#).

[Tribal Energy Webinar Series: Energy Considerations When Designing and Constructing New Tribal Buildings \(July 31, 2019\)](#)

The most cost-effective time to reduce a building's energy consumption is during the design phase. At this stage, energy-saving features can be integrated into the design in ways that are much more economical than a post construction retrofit/remodel. This webinar will discuss many opportunities to reduce the thermal and electrical energy cost of operating a building, from passive solar design and energy efficient technologies to building materials and various types of certifications and building codes. Case studies will highlight successes and lessons learned from tribes that have recently built new commercial and residential buildings. To register, click [here](#)

[Tribal Climate And Health Adaptation Webinar \(August 6, 2019 - December 17, 2019\)](#)

This webinar series is geared toward providing resources to tribal professionals in order to streamline the adaptation planning process, and make it easier for tribal health and environmental professionals to understand and address human health exposures and impacts within tribal communities. This interactive training is offered through a series of ten live webinars scheduled on the first and third Tuesdays of the month (9:00 – 10:00 AM Pacific Time) from August through December 2019. This training originates from the [Tribal Climate Health Project](#) (TCHP), a grant-funded project being administered by the [Pala Band of Mission Indians](#) and the [Pala Environmental Department](#) (PED) to help tribal communities across the country build capacity to address the health impacts of climate change. For more information, click [here](#).

[Mni Ki Wakan: World Indigenous Peoples Decade of Water Summit \(August 13-15, 2019\)](#)

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is dedicated to elevating indigenous voices on water and human rights. This year, indigenous peoples, youth, global actors, and allies from the international community will convene at the Ramkota Best Western Inn Conference & Events Center in Rapid City, South Dakota. Indigenous peoples, youth, and supporters will help co-create and design an indigenous-centered, youth-oriented, and decade-long water summit that reflects the diverse tributaries of values and confluences of indigenous wisdom and knowledge. The goal of these annual summits is to establish a global community of leaders dedicated to the future of water. To register, click [here](#)

[Managing for a Changing Climate - FREE Online Course](#) **[August 26, 2019 - November 25, 2019](#)**

The South Central Climate Adaptation Science Center at the University of Oklahoma will offer four short, online courses that will provide an integrative understanding of the components of the climate system. Throughout the courses, climate experts will discuss the impacts of a changing climate on multiple sectors such as the economy, policy, ecosystems, and indigenous populations and how managers can adapt to these changes. Courses are open to the public. To register, click [here](#). For more information, contact info@southcentralclimate.org

[NIHB's 36th Annual National Tribal Health Conference](#) **[Pechanga Resort & Casino Temecula, CA](#)** **[\(September 16 - 20, 2019\)](#)**

The National Tribal Health Conference (NTHC) is the largest American Indian and Alaska Native annual gathering focused specifically on health. The conference focuses on exploring health policy and its impact on Tribes, advancing Tribal capacity to expand own policy work, and policy and political work in the arenas of health care, public, behavioral, and environmental health. Attendees will have opportunities to join breakout sessions lead by nationally recognized guest speakers and elected and appointed government officials. For more information and registration, click [here](#)

[3rd Annual National Native Health Research Training Conference](#) **[Pechanga Resort & Casino Temecula, CA](#)** **[\(September 23 - 25, 2019\)](#)**

The American Indian Higher Education Consortium (AIHEC) is hosting the 3rd annual National Native Health Research Training Conference titled "Tribal Health Research Agenda: Governance, Trust and Culture." The conference is aimed toward the participation of native decision makers, researchers, and community members driving the research agenda with the goal of sharing research outcomes with the tribal health stakeholder community. To Register, click [here](#).

[North Central Powwow Calendar:](#)

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	Lincoln Indian Club Powwow	Heart Butte Indian Days	
	August 2-3, 2019	August 8-11, 2019	
	55th Annual Chippewa Cree Celebration	Colorado Springs Intertribal Powwow	
	August 2-4, 2019	August 10, 2019	
	Oglala Lakota Nation Wacipi & Fair	Ponca Tribe of Nebraska 25th Annual Powwow	
	August 2-4, 2019	August 10-12, 2019	
	Fort Union Trading Post Indian Arts Showcase & Wacipi	212th Annual UmoNhoN Hedewachi Powwow	
	August 3-4, 2019	August 18-21, 2019	
	Northern Plains Oyate Traditional Wacipi	Rosebud Fair & Wacipi Celebration	
	August 3-4, 2019	August 22-25, 2015	

Research

Sagebrush Biome Conservation and Restoration

The second part of a study published by the U.S. Forest Service links the Department of Interior's Integrated Rangeland Fire Management Program to strategic conservation and restoration actions within the sagebrush biome. This study is a great resource for climate adaptation, wildfire and vegetation management, nonnative invasive plant management, adaptive management and monitoring and livestock grazing management. For more information, click [here](#)

Spring Flooding Linked to Forecast for Big Gulf of Mexico 'dead zone' this Summer

This year's flooding throughout the Missouri River Basin caused detrimental effects on terrestrial communities, and is projected to continue threatening marine ecosystems in the Gulf of Mexico. Scientists are beginning to understand the link between up-stream activities of agricultural fertilization and the consequences it poses on downstream ecosystems. It is predicted that a 'dead zone' under 8,000 sq miles will form this summer due to excessive nutrient pollution carried downstream from this year's major flooding, just shy of 2017's record-breaking 'dead zone'. For more information, click [here](#).

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Online Resources

[Does Your Community Need Help With Climate Change Adaptation Planning?](#)

As part of a National Science Foundation-funded study, Virginia Tech and EcoAdapt are excited to offer support for up to eight communities to undertake a stakeholder-driven climate change vulnerability assessment and adaptation planning workshop (1-2 days). The goal of these workshops is to build local capacity for climate change adaptation, improve understanding about local climate change vulnerabilities, and develop implementable adaptation responses. Applications are due by **August 30, 2019**. Click [here](#) to apply.

[U.S. Climate Resilience Toolkit](#)

This interactive toolkit hosted by NOAA's National Centers for Environmental Information provides information and tools to help you better understand and address climate risks, build resiliency, and browse case studies conducted across the United States. Information regarding funding opportunities and potential resources for adaptation efforts are also provided within the website. Click [here](#) to watch a video on how get started.

[Digging In: Supporting a Healthy, Sustainable Food Future in Omaha Nation](#)

The Omaha Nation Food System Initiative provides access to a sustainable source of healthy food for the Native people living within the Omaha Reservation in Nebraska. This document details the Omaha National Food System program and the effects of the initiative on health and wellness of the people in the community. Learn how you can create a sustainable food future for your community today!

NC CASC is a part of the National Climate Adaptation Science Center and one of eight regional climate centers created to help meet the changing needs of land and managers across the country. NC CASC is a partnership between US Geological Survey and CU Boulder, created to foster both innovated and applied research, in support of natural resource management to address the needs of tribes and tribal organization.

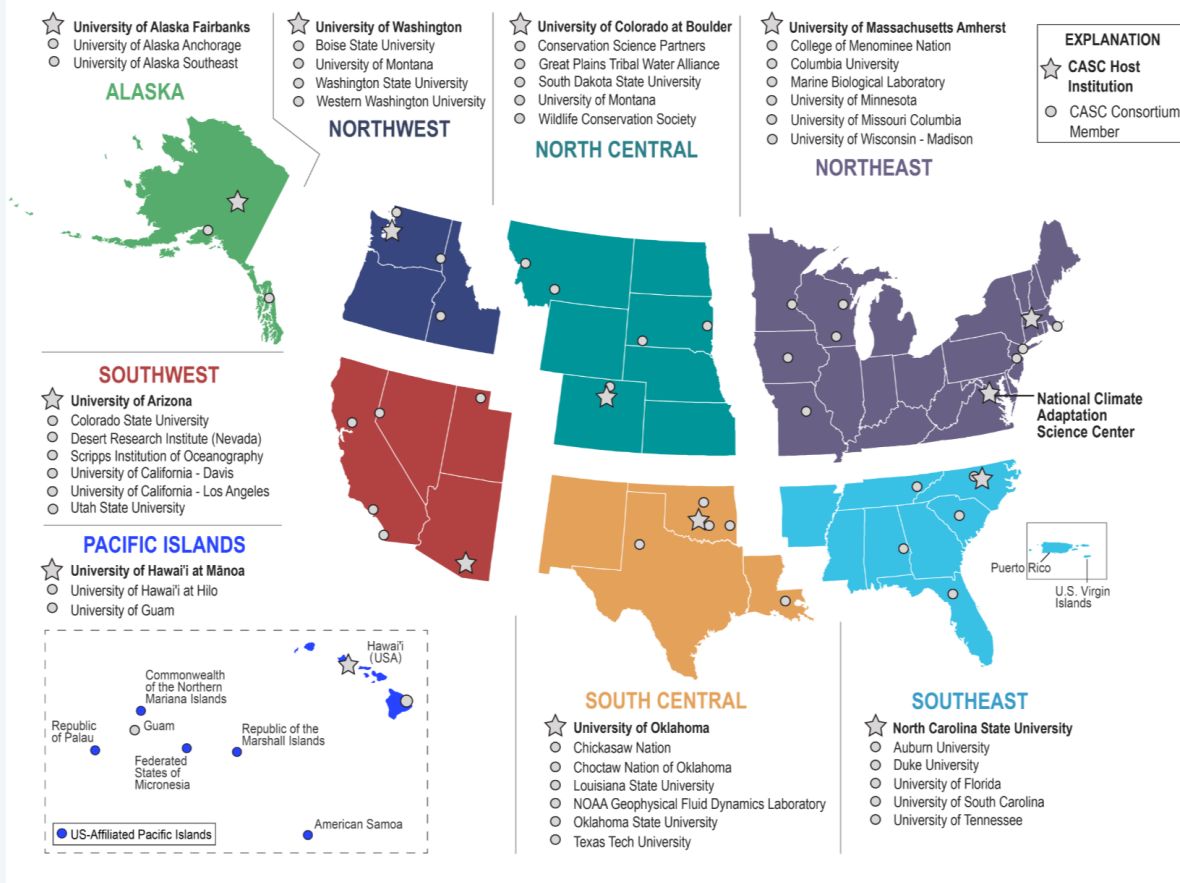
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Climate Adaptation Science Center (CASC) Regions

The CASCs collaborate across boundaries to address shared ecosystems, watersheds, and landscapes.

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