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August 2019



The North Central Climate Adaptation Science Center (NC CASC) has developed a Tribal Climate Adaptation Newsletter to be released monthly 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:

- [Upcoming Events](#)
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- [News & Announcements](#)
- [North Central Pow Wow Calendar](#)
- [Funding Opportunities](#)

Featured Story:

Indigenous Delegation to Attend 25th United Nations Climate Negotiations

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This year, the nonprofit organization [SustainUS](#) is sending their Indigenous delegation to the 25th Conference of Parties (COP25) taking place in Santiago, Chile. SustainUS has been attending COP meetings since 2015, but this will be their first-ever Indigenous led delegation to attend. Three young, well-experienced Indigenous activists from California, Oregon, and Ohio will co-lead this new delegation, and their team will be comprised of young Native volunteers from across the country who are selected through an application process. Each candidate will have first-hand knowledge and experience with the impacts that climate change is having on frontline communities.

Their vision is to honor their ancestors, inspire future generations, and "bring spirit into politics and prayer into spaces that need it most" (SustainUS, 2019). They hope to achieve this by amplifying the voices of traditionally marginalized and oppressed Indigenous communities fighting to protect the Earth, and pressure global governments to ban polluters, such as fossil fuel corporations, from the COP. The delegation will be attending the COP25 from December 2nd through the 13th, and are accepting donations for travel expenses on the SustainUS website.

Upcoming Events

[North American Forest & Climate Movement Webinar](#)

The Indigenous Environmental Network is co-hosting a webinar on August 22nd to provide information regarding the North American Forest & Climate Movement Convergence that will take place in October. Click [here](#) to register for their webinar!

[National Tribal Energy Summit \(NTES\)](#)

The 2019 NTES, hosted by the U.S. Dept. of Energy Office of Indian Energy and National Conference of State Legislatures, will take place in Washington D.C. from September 24 to September 26. Attendees will meet with high-level Administration officials, Members of Congress, and Tribal leaders to exchange ideas and build networks. [Registration](#) **must be submitted by August 30** and is available on first-come first served bases until sold out!

[AISES National Conference](#)

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in Milwaukee, Wisconsin for the annual American Indian Science and Engineering Society (AISES) National Conference. AISES is seeking [presenters](#) and [volunteers](#) for this year's conference. **Presentation proposals are accepted until September 1, 2019.** [Exhibitor registration](#) is also open for colleges/universities, tribal businesses and nonprofits, and federal and corporate agencies until **September 6, 2019.**

[Great Plains Tribal Water Alliance \(GPTWA\) Fall Conference](#)

GPTWA is dedicated to protecting and ensuring clean water resources for citizens of the Great Sioux Nation. Their annual Fall Conference will be held on October 10-11 in Rapid City, South Dakota.

[Community & Business Resiliency to Extreme Events](#)

The NOAA Climate Program Office will be hosting a webinar on October 12 at 1:00 PM EST to discuss the Federal Funding Opportunity titled "Building U.S. Communities' and Businesses' Resilience to Extreme Events." Representatives of the Climate Resilience Fund will also be describing their grant opportunities. The webinar is free and open to the public. Click [here](#) to register.

[Renewable Energy & Sustainability Conference](#)

The Seminole Tribe of Florida will be hosting their 3rd Annual Renewable Energy and Sustainability Conference on February 11-13, 2020. The focus of the event will be on Tribal energy development and sustainability, funding opportunities, and project planning. Registration is FREE for Native American citizens working within Indian Country, and must be submitted by January 6, 2020.

- Conference organizers are seeking Native Americans interested in giving presentations on the energy and sustainability projects within their communities. Presentation applications must be submitted by **September 6, 2019.** Click [here](#) for more information.

Research

[Climate Change within Ecological "Islands"](#)

In a study conducted by a SE CASC researcher and USGS ecologist, a framework is presented for anticipating and managing climate-change impacts in isolated habitats, or "insular ecosystems".



[Subscribe](#)[Past Issues](#)[Conditions for River Restoration](#)[Translate ▼](#)

USDA research biologists in Alaska have created an interactive model, "[Aquatic Trophic Productivity](#)" (ATP), to predict responses and management actions in preparedness for flooding, water nutrient deprivation, and long-term environmental changes in river systems.



News & Announcements

[Tribal Climate Leaders Graduate Program](#)

NC CASC and the University of Colorado in Boulder, CO are excited to announce our scholarship program available to graduate students interested in exploring how climate may impact natural and cultural resources and resilience. Over the course of two years, students will take graduate courses in their department and complete a Master's thesis on their chosen research topic. Students eligible for this program must be affiliated with the 31 federally-recognized tribes in the North Central region (ND, SD, NE, KS, MT, WY, or CO).

[Climate Change Discussions in Wind River](#)

This month a U.S. Senator from Rhode Island traveled throughout Wyoming to learn how climate change is impacting communities. During his visit on the Wind River Reservation, Eastern Shoshone and Northern Arapaho tribal leaders voiced their concerns regarding increasing glacial melt and the high cost of wind and solar projects.

[Using Modern Technology to Care for Ancestral Lands](#)

In an era of climate change, tribal foresters and wildlife conservationists are incorporating new management efforts to maintain ancestral lands and resources. Tribal scientists on the Flathead Reservation in Montana are using light detection and ranging (LIDAR) technology and geographic information systems (GIS) to restore and sustain biodiversity in wilderness areas, and reestablish populations of threatened and endangered wildlife. This technology has also allowed tribes in MT to maintain healthy forest ecosystems and manage timber harvesting.

[SDSPA Community Visits Wakínyan Opha \(Thunder Valley CDC\)](#)

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The South Dakota Specialty Producers Association's agroforestry tour program, which highlights specialty crops and local food industries, is set to visit Thunder Valley CDC's demonstration farm and meet with The Food Sovereignty Coalition on the Pine Ridge Reservation. The farm consists of greenhouses, as well as a poultry unit and bee farm which provide organic and healthy food options throughout the reservation, contributing to the tribe's sovereign food system.

[Hottest Month in 140-Year History](#)

The heatwave of July 2019 exceeded critical thresholds in many areas across the globe. Northern and Southern polar ice shrank to historic lows, and a tropical storm system swept through the Gulf of Mexico with wind speeds of 120 km/h, dumping record-setting amounts of rain across Arkansas and Louisiana.

North Central Pow Wow Calendar

[Rosebud Fair & Wacipi](#)
[Rosebud, South Dakota](#)
 Aug. 23-25

[Turtle Mountain Chippewa Pow Wow](#)
[Belcourt, North Dakota](#)
 Aug. 30 - Sept. 2

[Fort Kipp Celebration Pow Wow](#)
[Fort Kipp, Montana](#)
 Aug. 23-25

[Cheyenne River Pow Wow, Fair, & Rodeo](#)
[Eagle Butte, South Dakota](#)
 Aug. 30 - Sept. 2

[Ute Mountain Pow Wow & Hand Game](#)
[Towaoc, Colorado](#)
 Aug. 23-25

[United Tribes Technical College Pow Wow](#)
[Bismark, North Dakota](#)
 Sept. 6-8

[Little Shell Elders & Veterans Pow Wow](#)
[Ulm, Montana](#)
 Aug. 24

[Denver Art Museum Friendship Pow Wow](#)
[Denver, Colorado](#)
 Sept. 7

[Northern Arapaho Pow Wow](#)
[Arapaho, Wyoming](#)
 Aug. 30 - Sept. 1

[Southern Ute Tribal Fair](#)
[Ignacio, Colorado](#)
 Sept. 13-15

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	Ashland Labor Day Pow Wow Ashland, Montana Aug. 30 - Sept. 1	Northglenn, Colorado Sept. 14	
	Poplar Indian Days Poplar, Montana Aug. 30 - Sept. 1	Fort Omaha Intertribal Pow Wow Omaha, Nebraska Sept. 21	

Funding Opportunities

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

EcoAdapt and Virginia Tech, in partnership with National Science Foundation, are providing climate change vulnerability assessments and adaptation planning workshops to communities currently updating, implementing, or developing a local climate change adaptation plan. If your community is interested in being considered as a workshop site, submit the EcoAdapt [application form](#) by **August 30th, 2019**.

[First Nations Development Institute Scholarship Program](#)

The Native Agriculture and Food Systems Scholarship Program is offered to full-time undergraduate or graduate Native American college students majoring in an agricultural-related field or able to demonstrate how their degree program relates to Native food systems. Through this program, [First Nations](#) hopes to encourage more Native American college students to enter fields allowing them to better assist their communities.

Applications must be submitted by 5:00 PM MST on September 30, 2019. To begin the application process, click [here](#).

[Coping With Drought](#)

National Integrated Drought Information System (NIDIS) and National Oceanic and Atmospheric Administration (NOAA) are seeking proposals for their Coping With Drought Program. This competition is focused on research to improve the understanding and use of drought indicators, thresholds and triggers, and drought impact reporting. **Letters of intent are due by 5:00 PM (ET) on August 23, 2019, and full applications must be received by October 28, 2019.** For other climate program grants/federal funding opportunities, visit the [NOAA website](#).

[Tribal Air Quality Programs](#)

"Tribal Training Support for the Community" and "Tribal Air Quality" programs are offered through the Environmental Protection Agency (EPA) to provide funding for training and technical support to tribal governments seeking to investigate, develop, and establish air quality management programs for lands under their jurisdiction. **Applications must be submitted by September 20, 2019.** Click [here](#) to apply.

[Protection of Drinking Water](#)

Recipients of grants provided through the EPA's "Training for Improved Protection of Drinking Water Sources Program" may use funds for training that will enhance

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universities and colleges, hospitals, state/local governments, and public and private nonprofit institutions. **The closing date is September 13, 2019.** Click [here](#) to submit your application.

[Renewable Energy & Efficiency](#)

The Renewable Energy Systems and Energy Efficiency Improvement Program through the Department of Agriculture is providing grant funding and loan financing to agricultural producers and rural small businesses for renewable energy systems and energy efficiency construction and improvement projects. Applications are accepted year round. Click [here](#) for more information.

[Wyoming Bureau of Land Management Opportunities](#)

Wyoming's BLM is offering funding opportunities available to state governments, county and city governments, special district governments, public and state controlled institutions of higher education, federally recognized tribal governments, and nonprofit organizations.

- The [Plant Conservation and Restoration Management Program](#) will provide assistance with restoring and rehabilitating natural plant and wildlife habitats in areas impacted by wildfires. **Applications are due August 31, 2019.**
- Funding offered through the [Fisheries and Aquatic Resources Management Program](#) will assist with watershed management, water conservation and quality studies, invasive vegetation removal, infrastructure modernization and improvement, and restoration of riparian habitats. **The closing date is August 23, 2019.**

[WaterSMART Programs](#)

The Bureau of Reclamation is providing grants through WaterSMART, a program working with states, tribes, and local entities planning and implementing actions to increase water supplies through investments for infrastructure modernization and construction.

- [Applied Science Grants](#) provide assistance with water supply reliability, water deliveries, drought management activities, use of ground and surface water, water rights, and the ability to meet endangered species requirements. **The closing date for proposals is October 30, 2019.**
- [Water and Energy Efficiency Grants](#) fund projects seeking to conserve and use water more efficiently, increase hydropower production, solve conflict mitigation in areas at risk, and accomplish other benefits that contribute to water supply reliability. **To receive funding for 2020, proposals must be submitted by October 3, 2019.** Funding for 2021 will be awarded to applicants with proposals submitted by September 30, 2020.

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

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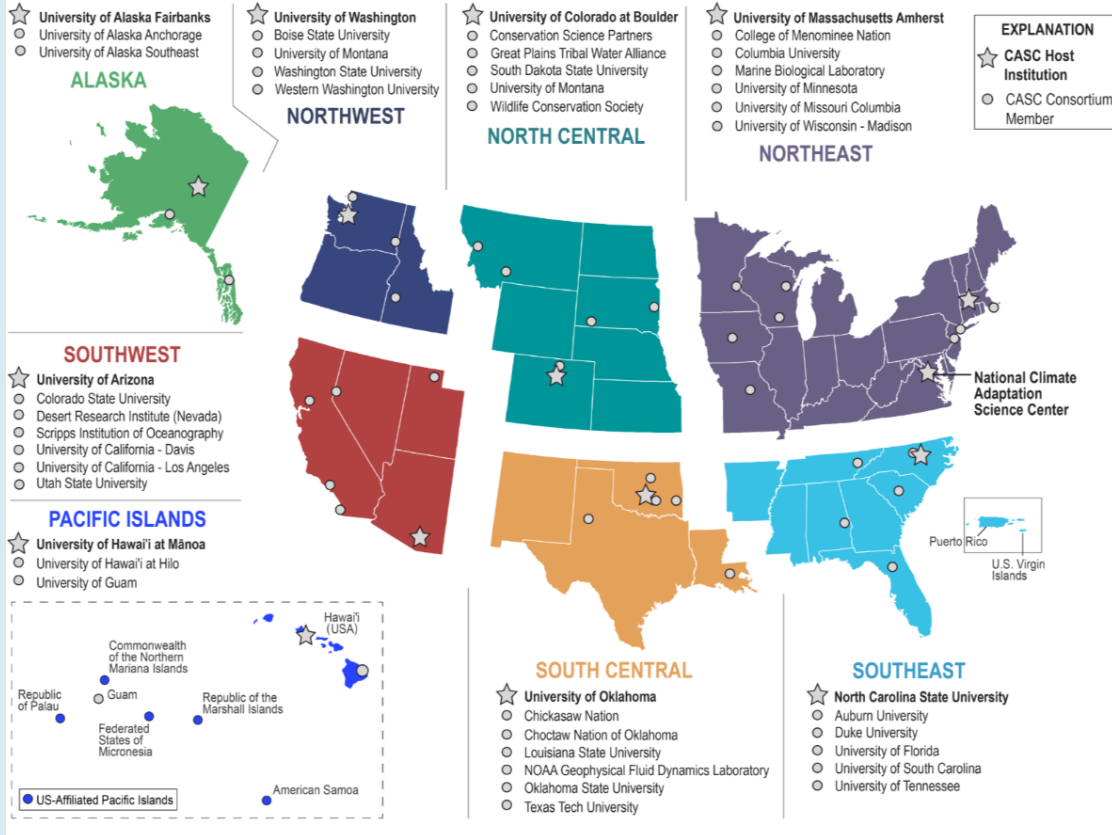
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needs of tribes and tribal organization.

Climate Adaptation Science Center (CASC) Regions

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



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