



# Institute for Tribal Environmental Professionals



Tribes & Climate Change Newsletter

2021 July

Welcome to our monthly newsletter which provides news items, resources, announcements about funding opportunities, conferences, and training, and other information relevant to tribal climate change issues.



River flowing through a valley in boreal forest, Alaska

## Meet the Climate Change Team

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Paige Canyon flowing after a recent monsoon storm  
Photo courtesy of Colleen Cooley

Here in the Southwest, specifically in Arizona, we've received much needed moisture. The past three weeks, there has been a steady presence of clouds and rain bringing a sigh of relief from the summer heat. Prior to the monsoon rains, I would close the curtains and doors in a small effort to contain the coolness of the house before the late afternoon heat. As my family took our daily walks, what was left of the plants crunched beneath our feet and swirls of dust lingered after us. The pinyon pine and juniper trees seemed to wilt under the relentless sun and some turned brown giving into the long lasting drought. In fact, across the state, a number of trees are dying, which is evident by their brown color. For many, it seemed to happen suddenly when in fact some of us have been witnessing and feeling this change for a long time. Our mother earth has been sending warning signals, yet many refused or just didn't take heed.

Then the monsoons season arrived. We were surprised because in the last few years, the clouds would bring hope of moisture. When the rains didn't come, we would blame the weather channel or people for inaccurate reporting. This year, the rains came. For us Navajos, we are taught to sit still in the house, and let the rain do its business. My family and I sat by the window staring and smiling at the female rain gently coming down and pouring into the rain barrels and creating small rivers into eventual puddles. The rains kept coming. Eventually, it also

brought flooding, stress and heartache. With every blessing there seems to be sorrow. Each time I was pregnant with my children, family members walked on to the next world. There must be some balance and harmony and unfortunately, we have incurred loss that is devastating. Whether this comes in the form of human loss or the ravaging of our water, lands and non-human relatives, our hearts break.

For our children and grandchildren and next seven generations, we must continue our journey. We should look to our relatives for inspiration and hope, including Winona LaDuke, who is leading the fight to [Stop Line 3](#) in Minnesota, literally putting her life on the line to defend the land and water.

Our relative, Quannah ChasingHorse Potts is using her platform as a model and warrior to continue advocating for the protection of the Earth, water, sky and animals.

Our efforts come in different forms and sizes and like the female rain, we need to keep steady and keep moving forward. Let's make our ancestors proud.

[Quannah ChasingHorse Potts](#)

[Honor the Earth](#)

[Simone Biles](#)

To be Continued, Nikki Cooley on behalf of [The Climate Team](#)

## Advisory Committee Members:

### Tribal Representatives:

**Jerry Cain**  
Mississippi Band of Choctaw Indian

**Jamie Donatuto**  
Swinomish Indian Tribal Community

**Michael Durglo, Jr.**  
Confederated Salish & Kootenai Tribes (CSKT)

**Shasta Gaughen**  
Pala Band of Mission Indians

**Desirae Mack**  
Alaska Native Tribal Health Consortium

### Federal Agency Representatives:

**Lisa Bacanskas**  
U.S. Environmental Protection Agency

**Alicia Bell-Sheetter**  
U.S. Forest Service

**Erica Bollerud**  
U.S. Environmental Protection Agency

**Ashley Fortune Isham**  
U.S. Fish & Wildlife Service

**Rachael Novak**  
Bureau of Indian Affairs

**Chris Swanston**  
U.S. Forest Service/NIACS

### Tribal Resilience Liaisons:

**Malinda Chase**  
Alaska Climate Adaption Science Center & Aleutian Pribilof Islands Association

**Chas Jones**  
Northwest Climate Adaption Science Center & Affiliated Tribes of Northwest Indians

**Sara Smith**  
Northeast Climate Adaption Science Center & College of Menominee Nation

**Stefan Tangen**  
North Central Climate Adaption Science Center & Great Plains Tribal Water Alliance

**April Taylor**  
South Central Climate Adaption Science Center & Chickasaw Nation

**Casey Thornburgh**  
Northeast/Southeast Climate Adaption Science Center & United Southeastern Tribes

**Althea Walker-Ortiz**  
Southwest Climate Adaption Science Center & American Indian Higher Education Consortium



# In The News

## [\*\*Tribe Becomes Key Water Player With Drought Aid to Arizona\*\*](#)

For thousands of years, an Arizona tribe relied on the Colorado River's natural flooding patterns to farm. Later, it hand-dug ditches and canals to route water to fields. Now, gravity sends the river water from the north end of the Colorado River Indian Tribes reservation through 19th century canals to sustain alfalfa, cotton, wheat, onion and potatoes, mainly by flooding the fields. © KNAU, 07/05/21

## [\*\*A Quest for Alaska Oil Sparks a Fight Over Tribal Sovereignty\*\*](#)

Every spring, the shallow ponds and spruce forests of the Yukon Flats, in Interior Alaska, stir with the flapping of scoters and scaups, the laugh-like yelps of white-fronted geese and the high-pitched whistle of wigwags. Up to 2 million birds arrive each year to nest in some of North America's most productive waterfowl breeding grounds. Along with salmon, moose and other wildlife, they provide food for the human residents of the region, where a half-gallon of milk can cost \$7.99. © High Country News, 07/06/21

## [\*\*Historic Summit of Tribes Across Pacific Northwest Presses Dam Removal on Inslee, Biden, Congress\*\*](#)

In a historic gathering of more than 15 Indian nations, tribal leaders from around the Northwest called for immediate action to save endangered orcas and the salmon they depend on. The call for salmon and orca recovery was joined by U.S. Sen. Patty Murray and Gov. Jay Inslee of Washington, who each stated dam removal on the Lower Snake River, a tributary of the Columbia, must remain on the table and a comprehensive solution quickly reached to save salmon and orcas from extinction. © The Seattle Times, 07/09/21

## [\*\*Paradigm shift: Tribe is now an owner of the power grid\*\*](#)

A new company, Morongo Transmission, owned by the Morongo Band of Mission Indians, will invest in the project and that's what allowed Southern California Edison to build the \$740 million project across tribal lands. This is where the story gets interesting. The Morongo Band is now an owner of the power line that crosses its lands. © Indian Country Today, 07/12/21

## [\*\*DOE Awards \\$12 Million to Tribes to Maximize Clean Energy Technology, Reduce Emissions\*\*](#)

The U.S. Department of Energy (DOE) has awarded \$12 million in funding to 13 Native American and Alaska Native communities across the nation for projects that will reduce energy costs and increase energy security and resiliency. The selected projects will power their homes and communities, make buildings more energy efficient, and install microgrids for essential services and resiliency, the DOE said in an announcement Tuesday, noting that these are critical elements to the Biden Administration's goal of reaching net-zero carbon emissions by 2050. © Native News Online, 07/13/21

## [\*\*Oneida organic farm, cannery and retail store are making Indigenous foods the Indigenous way\*\*](#)

What started as a program to teach low-income families about the importance of food nutrition in Oneida has grown into a critically crucial pillar to maintaining tribal sovereignty and culture and is helping to lead the way for all of Indian Country in the United States. © Green Bay Press Gazette, 07/20/21

## [\*\*Nikki Cooley with local tribal environmental organizations speaks to Congress on climate justice\*\*](#)

Nikki Cooley, co-manager of Tribes and Climate Change Program and interim assistant director of the institute for Tribal Environmental Professionals, spoke to members of the House Select Committee on Climate Change during a virtual meeting on July 15. During the hearing, Cooley and other experts discussed issues of environmental justice and how they could be addressed through action on climate change. © Arizona Daily Sun, 07/21/21

## [\*\*Passamaquoddy Tribe Hopes New Solutions - And Sovereignty - Can Help Address Longstanding Water Problems\*\*](#)

For decades, some members of the Passamaquoddy Tribe have shared a message with family members and visitors coming to the reservation at Pleasant Point: Don't drink the water. They've long complained about its color, smell, and tests reporting excess levels of contaminants. Recent efforts to improve the water treatment system have some members hopeful that a fix could be coming — but tribal leaders see the solution as a matter of tribal sovereignty. © Maine Public, 07/22/21

## [\*\*Entrepreneurial climate change spirit at tribal reservation\*\*](#)

Robert Blake, a tribal citizen of the Red Lake Nation applies lived experiences, passion, drive, and vision for a future not burdened by global warming impacts. We need to be at peace with this planet and not at war with it, Blake said. "Living in harmony and being at one with the environment is what has allowed Indigenous people to persevere. We must put our Mother first and treat her with respect once again if we want to continue to exist. I believe this with all my heart." © Yale Climate Connections, 07/21/21

## [\*\*'Long overdue': Lawmakers propose \\$6.7 billion to bring clean drinking water to Indian Country\*\*](#)

Two Democratic senators have introduced legislation that would dramatically scale up funding to build new water infrastructure in Indian Country, seeking to address a backlog of needed projects and finally bring clean drinking water to communities that have been living with scarcity and toxic contamination for generations. © AZ Central, 07/25/21

## [\*\*Water crisis reaching boiling point on Oregon-California line\*\*](#)

Ben DuVal knelt in a barren field near the California-Oregon state line and scooped up a handful of parched soil as dust devils whirled around him and birds flitted between empty irrigation pipes. DuVal's family has farmed the land for three generations, and this summer, for the first time ever, he and hundreds of others who rely on irrigation from a depleted, federally managed lake aren't getting any water from it at all. © Los Angeles Times, 07/26/21

## [\*\*As drought in the West worsens, the Ute Mountain Ute Tribe in Colorado faces a dwindling water supply\*\*](#)

In late June, Simon Martinez drove along one of the dirt roads crisscrossing the parched rocky shrubland on the Ute Mountain Ute Tribe Farm & Ranch Enterprise, a 7,700-acre agricultural operation owned by the Ute Mountain Ute Tribe in the far southwestern corner of Colorado. In normal times, he would be driving past giant circular fields of corn and alfalfa irrigated by 110 rotating sprinklers called pivots. © Colorado Sun, 07/28/21

# Resources

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## **The Group on Earth Observations (GEO) Indigenous Alliance**

The newly released GEO Indigenous Alliance 2020 report highlights the opportunities and challenges that were raised during the Summit, and concludes with recommendations and actionable next steps. In order to achieve the targets and goals of the Paris Agreement and the Sendai Framework, the challenges addressed during the Summit in terms of access and use of innovative earth observation datasets and technologies by Indigenous Peoples must be urgently addressed. To read the report, click [here](#).

## **Nature-Based Mitigation Goals and Actions in State and Tribal Hazard Mitigation Plans**

This study evaluates to what extent state hazard mitigation plans are incorporating nature-based goals and actions, such as the conservation and restoration of wetlands and floodplains and the use of green infrastructure. We identified the range of practice as well as model examples of plan language that could be used by states in future iterations of their plans. We conclude with some observations on the state hazard mitigation plan development process and how planning elements can serve as opportunities to stimulate states and tribes to identify and use nature-based strategies. To read the report, click [here](#).

## **Rapid Assessment to Facilitate Climate-Informed Conservation and Nature-Based Solutions**

A new article, published as a Perspective in the journal Conservation Science and Practice, introduces a rapid assessment framework that can be used as a guide to make conservation and nature-based solutions more robust to future climate. This tractable assessment encourages practitioners and funders to use the “what, when, where, why, and who” or the “5Ws” of climate-informed action as a tool in project design and implementation. To read the article, click [here](#).

## **Increasing Inclusion of Indigenous Knowledge and Local Knowledge in International Assessment Reports**

This compendium represents steps toward the inclusion of Indigenous Knowledge (IK) and local knowledge (LK) into international assessments. The contributions within this compendium documents how holders of IK and LK observe, project, and respond to anthropogenic climate change. This compendium constitutes an invaluable resource to be considered in international assessment reports, including the Working Group II contribution to the Intergovernmental Panel on Climate Change Sixth Assessment Report and beyond. To read the report, click [here](#).

## **Atmospheric Tales Podcast: Traditional Knowledges of Indigenous Peoples and Environmental Challenges**

This episode features the Institute for Tribal Environmental Professionals' Executive Director, Ann Marie Chischilly. Ann Marie discusses the traditional knowledges of indigenous peoples and their relevance and importance to mitigating and adapting to climate change and environmental challenges in general. To listen to the podcast, click [here](#).

## **Celebrating Transformational Adaptation - 2021 Southwest Adaptation Forum**

The much anticipated 2021 Southwest Adaptation Forum panel discussions, activities, and resources are now publicly available! From inspiring stories of climate adaptation and resilience to understanding how to continue and grow this

work - in the right way - the 2021 Southwest Adaptation Forum was an opportunity to showcase the transformations occurring in our communities and beyond. To access the forum, click [here](#).

## **Southwest and South Central Climate Adaptation Science Center (CASC) Investigators Publish Editorial on Managing Colorado River Risk**

Southwest CASC investigator Brad Udall and South Central CASC investigator John Fleck recently published an editorial on Managing the Colorado River Risk. The Colorado River system delivers water to 40 million people in the United States and Mexico, and irrigates millions of acres of agricultural lands. As temperatures warm due to climate change, water flow is down by 20% and the two largest reservoirs along the river are projected to be at 29% capacity by 2023, leaving a complicated situation for decision-makers and politicians as water allocation agreements are renegotiated over the next 4 years. Udall and Fleck lay out this enormous challenge, outline what the latest science is saying, and urge decision-makers to “follow the science” as they negotiate over this precious resource. To read the article, click [here](#).

## **Global Energy Outlook 2021: Pathways from Paris**

In this annual report, Resources for the Future reviews and compares recent long-term projections from some of the world's leading energy institutions. This year's report provides particular insight into the differences between pathways aligned with the 1.5 degree and 2 degree Celsius climate targets; the effects of COVID-19 on future population, GDP, and energy demand; and the energy intensity of the global economy. To view the report, click [here](#).

## **New Southwest Climate Adaptation Science Center (SW CASC) Report - Prioritizing Forest Health Investments**

Forest health investments are a central component of fire mitigation and carbon management strategies and provide multiple co-benefits. In this report, the Governor of California's Forest Management Task Force Science Advisory Panel presents an evaluation of factors for prioritizing forest health treatments and review a range of existing approaches for prioritizing forest health management actions. SW CASC researchers Jennifer Smith, Deniss Martinez (UC Davis) and Chris Adlam (UC Davis) are lead and contributing authors. To view the report, click [here](#).

## **Southwest Practitioners Adaptation Network (SPAN)**

SPAN builds capacity for actionable climate change adaptation solutions and SPANs the boundaries between science and decision-making. By connecting and leveraging existing networks, SPAN links climate adaptation and assessment practitioners with resources, support, and knowledge to build stronger partnerships across the U.S. Southwest. To view the website, click [here](#).

## **United South and Eastern Tribes' (USET) New Website and Climate Change Web Page**

USET has a brand new website with a brand new Climate Change web page. These pages will continue to provide information regarding climate science events, funding opportunities, and other resources from across the USET region and Indian country overall. To view the website, click [here](#).

# Job & Internship Opportunities

## [NDN Collective - Changemaker Fellowship](#)

This 12-month Fellowship is designed to invest in the visions, leadership, and development of Indigenous Changemakers. This Fellowship will be offered to 21 Indigenous Changemakers across the continental United States, Canada, Mexico, Islands of Hawaii, and the U.S. territories of American Samoa, Guam, the Northern Mariana Islands, Puerto Rico, and the U.S. Virgin Islands. **Letter of Interest Deadline: August 6, 2021 by 5pm (MST).**

## [National Tribal Water Council Seeks New Members](#)

The National Tribal Water Council is a technical and scientific body established to advocate for the interests of federally recognized Indian and Alaska Native tribes in matters pertaining to water. The council is currently accepting applications to fill an open membership position for water professionals employed by federally recognized Tribes or Tribally authorized organizations in EPA Region 10. For more information, contact Elaine Wilson [elaine.wilson@nau.edu](mailto:elaine.wilson@nau.edu) **Application deadline: August 13, 2021**

## [Great Lakes Indian Fish & Wildlife Commission \(GLIFWC\) - Wetland Ecologist](#)

The wetland ecologist will join a team of biologists and other scientists in the Biological Services Division (BSD) of GLIFWC working in such diverse fields as fisheries ecology, wildlife ecology, forest ecology and environmental protection. The BSD provides technical advice to 11 Ojibwe tribes in the implementation of their treaty-reserved rights in the ceded territories of northern Minnesota, Wisconsin, and Michigan. **Application deadline: August 15, 2021**

## [Call for Speakers & Abstracts: 2021 Eastern South Dakota Water Conference](#)

The South Dakota Water Resources Institute is soliciting abstracts relating to water resources and water management for the 2021 Eastern South Dakota Water Conference. The theme for this year's conference is "Ground Truth - Water Resource Management and Remote Sensing". **Submission deadline: August 20, 2021**

## [Managing for a Changing Climate: Introduction to the Climate System](#)

This course will introduce the basics of how the climate system operates, including an overview of the Earth's energy budget, the carbon cycle, atmospheric and oceanic circulation, and natural climate variability. Upon completion of this course, you will receive a certificate of completion. **Application deadline: August 30, 2021**

## [PG&E Better Together Resilient Communities Grant Program](#)

The PG&E Corporation Foundation (Foundation) is requesting proposals of \$100,000 to fund four projects in 2021 that build community resilience and capacity to withstand climate-related hazards. Priority will be given to those that demonstrate past or projected exposure to climate hazard(s) and those that address the needs of disadvantaged and/or vulnerable communities. Eligible applicants will be governmental organizations, educational institutions, or certified 501(c)3 nonprofit organizations and must include a local or tribal government within Pacific Gas and Electric Company's (PG&E's) service area as a partner. **Application deadline: August 31, 2021**

## [PG&E Resilience Hubs Grant Program](#)

Pacific Gas and Electric Company (PG&E) is requesting grant proposals to help communities build a network of local resilience hubs. These projects can provide a physical space or set of resources that support community resilience—such as access to power, shelter, and information—to climate-driven extreme weather events, including wildfires, as well as future Public Safety Power

Shutoff (PSPS) events. This funding will be distributed through a competitive solicitation and bid process to eligible nonprofit or government organizations (including tribal governments) within PG&E's service territory. **Application deadline: August 31, 2021**

## [Elderberry Wisdom Farm - Native American Interns](#)

This fall, a cohort of eight Native Americans from Oregon's tribal communities, plus urban Indians, Alaskan Native, Native Hawaiian and Pacific Islander students will learn to integrate traditional ecological knowledge perspectives into agricultural and horticultural career plans. Native American educators at Elderberry Wisdom Farm will combine TEK with traditional Western views to develop horticultural practices so students can learn to cultivate and grow native plant species, especially threatened and/or endangered traditional First Foods species. **Application deadline: September 1, 2021**

## [2022 Smith Postdoctoral Fellowship in Conservation Research](#)

The purpose of this Fellowship is to create opportunities for leading conservation scientists to strengthen their skills through two years of applied post-doctoral research, supplemented by training programs, peer networking, and field learning experiences; so that they may: 1. Build productive partnerships with conservation practitioners; and 2. Contribute and communicate scientific knowledge to problems of critical importance in conservation. **Application deadline: September 24, 2021**

## [NW Energy Coalition - Energy and Environmental Justice Policy Associate](#)

The NW Energy Coalition seeks an engaging and innovative energy and environmental justice advocate in Oregon with a deep commitment to equitable and just clean energy solutions. This person will help to further the Coalition's mission through collaborative work with community-based and environmental justice organizations, tribal nations, and other entities representing the needs of environmental justice communities. **Application deadline: position open until filled.**

## [National Parks Conservation Association \(NPCA\) - Indigenous Fellowship](#)

This position is a 2-year fellowship opportunity for an emerging leader to 1) work on existing and/or develop new campaigns at NPCA that hold a personal and/or cultural significance to them 2) support NPCA's growth and organizational development as a stronger ally with functional understanding of law and sovereignty, cultural sensitivity, and a basic knowledge of Indigenous history and experience 3) deepen NPCA's capacity and awareness to understand and to engage on intersectional Native American policy issues as it relates to NPS and public lands. **Application deadline: position open until filled.**

## [South Central Climate Adaptation Science Center \(SC CASC\) - Science Translator and Communications Specialist](#)

This position will work with the Assistant Director and other SC CASC staff to ensure the science generated by the research team is accessible and useful to various audiences including resource managers, tribal partners, and the general public. This is a full time position and will be located in the main office at the University of Oklahoma in Norman, Oklahoma. **Application deadline: position open until filled.**



# Funding Opportunities



## Additional Sources for More Opportunities:

1) More Funding Opportunities can be found at the Tribes & Climate Change website: <http://www7.nau.edu/itep/main/tcc/Resources/funding>

2) Tribal Climate Change Guide maintained by the Pacific Northwest Tribal Climate Change Project at the University of Oregon: <http://tribalclimateguide.uoregon.edu/>

3) Searchable database of all discretionary grants offered by the 26 federal grant-making agencies. [www.grants.gov/applicants/find\\_grant\\_opportunities.jsp](http://www.grants.gov/applicants/find_grant_opportunities.jsp)

4) Conservation Innovation Grants (USDA Natural Resources Conservation Service) <https://www.nrcs.usda.gov/wps/portal/nrcs/main/national/programs/financial/cig/>

### Innovative Community Engagement Methods

The National Academies of Science, Engineering, and Medicine's Gulf Research Program (GRP) is developing new programming around health and community resilience that prioritizes the needs and challenges of communities that are at risk from climate hazards and other disasters. This funding opportunity is an initial step toward understanding how to effectively engage communities about the impacts of climate change. Specifically, the GRP is seeking proposals that explore innovative methods or approaches to engage communities about climate change impacts on human health or community resilience. **Application deadline: August 12, 2021**

### Honor the Earth - Native Communities Grant

Honor the Earth, in partnership with the Kalliopeia Foundation and Cedar

Tree Foundation, is announcing the 2021 Native Communities Grant which focuses on indigenous sovereignty and environmental justice. The priority area of focus is in the protection and revitalization of sacred ways, rivers, and places. We are passionate in supporting the opposition to extreme extraction and the transition to an Indigenous economy. **Application deadline: August 20, 2021**

### BIA Request for Proposals: Tribal Climate Resilience Liaisons in Alaska, the Northwest, and the Southwest through the BIA's Tribal Resilience Program (Program)

The Bureau of Indian Affairs (BIA) is pleased to announce the availability of funding to support the hiring of Tribal Climate Resilience Liaisons in Alaska, the Northwest, and the Southwest through the BIA's Tribal Resilience Program. Eligible applicants include tribal non-profit, non-governmental organizations, and tribally-controlled colleges or universities that serve federally-recognized tribes. Other entities may participate as sub-grantees. The solicitation is available on grants.gov and named BIA-2021-TCRP. **Application deadline: August 23, 2021**

### California Resilience Challenge (CRC) Request for Proposals

CRC is pleased to invite eligible California public entities (including California Native American Tribes), non-governmental organizations, and community-based organizations to respond to the RFP for grants in support of climate resilience planning projects, with a preference for projects that will lead to implementation of resiliency infrastructure. **Application deadline: September 13, 2021**

### Call for Proposals: International Marine Protected Areas Congress (IMPAC5)

IMPAC5 is an opportunity for the global community of marine conservation managers and practitioners to exchange knowledge, experience and best practices to strengthen the conservation of marine biodiversity and to protect the natural and cultural heritage of the ocean. You are

invited to submit a proposal to present either in person or virtually during IMPAC5. Proposals must clearly align with IMPAC5's goals, themes, and cross-cutting streams, respects IMPAC5's Diversity, Equity, and Inclusion Statement, and are encouraged to be applicable and engaging in their presentation to a wide range of participants. **Submission deadline: September 20, 2021**

### FY 2022 Coping with Drought: Building Tribal Resilience

As part of the National Oceanic and Atmospheric Administration (NOAA), the Climate Program Office (CPO) is seeking applications for eight individual competitions in FY22. Several of these components are relevant to four high-priority climate risk areas CPO is focusing on to improve science understanding and/or capabilities that result in user-driven outcomes: coastal inundation, marine ecosystems, water resources, and extreme heat. **Application deadline: October 18, 2021**

### California Climate Investments

The California Climate Investments cap-and-trade program creates a financial incentive for industries to invest in clean technologies and develop innovative ways to reduce pollution. California Climate Investments projects include affordable housing, renewable energy, public transportation, zero-emission vehicles, environmental restoration, more sustainable agriculture, recycling and much more. At least 35 percent of these investments are made in disadvantaged communities and low-income communities and households. **Application deadline: accepted on a rolling basis**

### Potlatch Resiliency Fund

In light of the COVID-19 pandemic and its impact on Native communities, the Potlatch Resiliency Fund seeks to protect our way of life by funding resiliency actions that create hope, social connection, adaption, flexibility and purpose. This fund will provide grants that support general operating funds, projects, and artists. **Application deadline: accepted on a rolling basis**

# Upcoming Events

NOTE: Updated info on events can be found at the Tribes & Climate Change website:

<http://www7.nau.edu/itep/main/tcc/Home/Events>

## July 2021

### **Virtual Conference: July 26-29 & August 2-5**

#### **National Conference on Ecosystem Restoration (NCER)**

NCER is an interdisciplinary conference on large-scale ecosystem restoration presenting state-of-the-art science and engineering, planning and policy in a partnership environment. NCER brings together scientists, engineers, policy makers, planners, and partners from across the country actively involved in large-scale ecosystem restoration.

## August 2021

### **Symposium: August 1-5 2021 Women and Water Coming Together Symposium**

The 5th Annual Women and Water Coming Together Symposium: Reawakening The Ancient Pathways To Life. Wind, Fire, Earth, Water Days.

### **Webinar: August 3, 12:00pm MT Flash Drought Webinar Series: Current Understanding and Future Priorities**

The National Integrated Drought Information System (NIDIS) and the National Weather Service (NWS) are pleased to announce a series of three webinars to help climate professionals and operational service providers better understand this phenomenon, its defining characteristics and how it varies by region and season, its impacts on agricultural and other stakeholders, and the potential for improved monitoring, prediction, and planning/response tools.

### **Webinar: August 5, 9:00am MT North Central U.S. Climate and Drought Outlook Special Webinar**

Due to the recent dry and hot conditions across the North Central U.S., NOAA, USDA, and partners will be holding a special webinar to discuss conditions, impacts and outlooks through the end of the summer.

### **Webinar: August 5, 12:30pm MT Stewarding Native Lands: A Conservation Planning Guide for Native American Ranchers**

The webinar will highlight components of the recently updated Conservation Planning Guide that was developed by First Nations in 2016. The guide supports Native American ranchers in developing

conservation plans so that they can participate in USDA financial assistance programs provided by USDA Natural Resources Conservation Service to improve the management of their natural resources.

### **Virtual Workshop: August 9-13 ITEP's Introduction to Climate Change Adaptation Planning for Tribes (Western Region)**

This is week-long virtual course introduces planning for climate change impacts, with examples of how Tribes have approached the adaptation planning process. The course is intended for Tribal environmental and natural resource professionals who expect to be involved in climate change adaptation planning.

### **Virtual Workshop: August 10 & 17 Culturally Relevant Education in Environmental Data Science (CREEDS) Workshop**

Explore what it means to approach education around data science principles and skills from a culturally responsive perspective. This workshop will engage interdisciplinary teams to discuss existing and new approaches for developing culturally responsive data science curricula in the environmental sciences.

### **Virtual Conference: August 16-19 2021 Tribal Lands and Environment Forum**

Save the Date. Stay tuned for more details. [Proposals](#) for this event are being accepted for this virtual event until May 14, 2021.

### **Virtual Meeting: August 18-19 National Environmental Justice Advisory Council (NEJAC) Public Meetings**

EPA is holding the next NEJAC public meetings, which are free and open to the public. Members of the public are encouraged to provide comments relevant to the specific issues being considered by the NEJAC.

### **Virtual Conference: August 30 - September 1 Water Resources Research Center 2021 Virtual Annual Conference**

We are excited to announce the dates for the WRRRC 2021 Annual Conference, Tribal Water Resilience in a Changing Environment. In addition to three-hour sessions each day, we plan to offer some special pre-conference programming.

The first session will be held on Monday afternoon from 1-4pm Arizona time, with the following two sessions being held in the morning. Please save the dates, check back for updates on the program, and contact us for sponsorship opportunities.

## September 2021

### **Webinar: September 15, 4pm ET The Northeast's Paraglacial Shore and Its First Order Control on the Future Resilience of Coupled Beach/Marsh Systems**

The importance of external sediment supply to both beaches and marshes has long been recognized. In the Northeastern US glacial deposits serve as the predominant sediment source for shorelines extending from New York City to the Maine/Canadian border. In this talk, researchers present on the spatial distribution and characteristics of these paraglacial deposits and their first order control on both the current and future integrity of coupled marsh-beach systems.

### **Hybrid Symposium: September 19-21, Marquette, MI Food Sovereignty Symposium & Festival**

The Food Sovereignty Symposium & Festival includes multiple venues and partners across Madison, Wisconsin. In addition to presentations, submissions of hands-on demonstrations are encouraged. Proposals connected to and supporting Tribal communities will be prioritized.

### **Conference: September 21-24, Euchee Butterfly Farm: Tulsa, OK Tribal Alliance for Pollinators Conference**

Learn how to restore native plants, help pollinators, save monarch butterflies, build resilience to extreme weather and changing climate, develop food sovereignty, find funding opportunities, discover the successes and failures of other tribes navigating land stewardship during the challenges of the 21st century.

## Upcoming Events Continued...

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### September 2021

**Webinar: September 29, 2pm ET**  
**[Emerging Tools for Flash Drought Monitoring and Prediction](#)**

The National Integrated Drought Information System (NIDIS) and the National Weather Service (NWS) are pleased to announce a series of three webinars to help climate professionals and operational service providers better understand this phenomenon, its defining characteristics and how it varies by region and season, its impacts on agricultural and other stakeholders, and the potential for improved monitoring, prediction, and planning/response tools (datasets, maps, etc.)

**Virtual Workshop: September 29 - October 1**

**[9th Annual Rising Voices Workshop](#)**

Save the date. Centering justice in the convergence of sciences, communities, and actions. More information to come.

### October 2021

**Conference, October 6-10, New Orleans, LA**  
**[8th Annual HBCU Climate Change Conference](#)**

This conference brings together HBCU faculty and students, researchers, climate professionals and environmental justice and coastal community residents impacted by toxic facilities and severe weather events related to climate change in order to bridge the gap between theory and experiential realities of climate change. The conference will address issues related to climate justice, adaptation, community resilience, global climate issues, and other major climate change topics.

**Webinar: October 13, 4:00pm ET**  
**[Increasing the Resilience and Resistance of Climate-Vulnerable Species and Ecosystems](#)**

Drs. Morelli and Nislow will provide an update on their work for the NE CASC project. A description and updated title for this webinar will be available later this summer.

**Virtual Symposium: October 26-27**  
**[Northeast Climate Adaptation Science Center Regional Science Symposium](#)**

NE CASC invites the climate adaptation science community to participate in the 2021 Regional Science Symposium. Learn

about NE CASC research, hear about our new science plan, and discover resources and tools that support climate adaptation. The symposium will also include discussions focused on identifying emerging research and management needs, and it is our hope that it will foster new partnerships and strengthen existing collaborations.

### November 2021

**Symposium: November 15-18, Oklahoma City, OK**  
**[North American Lake Management Society \(NALMS\)](#)**

The Oklahoma Clean Lakes and Watersheds Association is accepting abstracts for this in-person symposium. The conference will be a great opportunity for networking and consist of multiple panels/discussions focused on the value of water for economics, ecology, and culture.

**Webinar: November 17, 4:00pm ET**  
**[Refugia are Important but are they Connected? Mapping Well-Connected Climate Refugia for Species of Conservation Concern in the Northeastern U.S.](#)**

This webinar will provide an update on work that is being undertaken regarding 10 vulnerable species and refugia locations for these species. This project identifies refugia locations for each of the species under consideration, maps how well each refugia location is connected to other refugia locations, and also maps locations that are most critical to connect current habitat to future climate refugia.

### December 2021

**Webinar: December 1, 4:00pm ET**  
**[Managing Waterfowl Harvest Under Climate Change: Time-Dependent Optimal Policies to Address Non-Stationary Dynamics](#)**

More information coming in the fall.

### January 2022

**Virtual Conference: Jan. 19-21**  
**[Southwestern Tribal Climate Change Summit](#)**

The Climate Science Alliance, in partnership with the La Jolla Band of Luiseño Indians and the Pala Band of Mission Indians, is excited to announce the 2022 Southwestern Tribal Climate Change Summit. This event will be a three-day gathering, with engaging discussions and activities centered

around the kinship with fire and its role in community, conservation, and climate change adaptation.