



# Institute for Tribal Environmental Professionals



Tribes & Climate Change Newsletter

December 2020

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.



*Beauty, Hozho.*

## Meet the Climate Change Team

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It is the eve of the Gregorian calendar's New Year but for most Tribal and Indigenous communities and people, they have already celebrated their New Year. We have also celebrated Solstice and we will see longer days and shorter nights. In this time of hardship, heartache, loss and drastic changes, we are looking for more positivity and perhaps normality. I know things will never be the same for many of us. All I know is that we can be and do better than we were yesterday. There are many things that hold us back including our emotional and physical pain regardless of our backgrounds. I often contemplate how to be stronger for those around me especially my siblings, parents, life partner and children. I think of the hardship our ancestors endured and what they sacrificed so we could be where we are today. My life has not been hard compared to those of my Elders. I think of our mother who grew up in a rural area watching her parents raise 13 children, shepherding, use a horse drawn wagon for transportation, and spending time at the boarding school without seeing family for long periods of time. She often speaks about her life to where she is now and how fortunate she is, and that only makes me want to make things even better for her. I wish to give her the world but I know she would only want to spend time with her grandchildren and weaving. Our father speaks of his childhood reminiscing about shepherding for his great grandparents who raised him, using duct tape on his boots, and his time at boarding school. I believe they know the meaning of hardship because they experienced it and are living so we can live and prosper.

I was fortunate to spend time and get to know many of my Elders including my paternal great-great grandparents, paternal great grandmother and both maternal and paternal grandparents. I remember the shiny silver hair of my great-great grandparents and how they'd give me a treat after sweeping their floors. I sat with my great grandmother in her dirt hogan as she told the emergence story of our people. We often sat with our maternal grandmother as she weaved her intricate rugs. Late into the night, I sat in ceremonial dwellings listening

and singing along with all of my Elders and family members. During visits or gatherings, I listened and learned from family on the importance of listening, learning and being in the moment as our Elders spoke. Respect was the main teaching I learned first and I give it where it is due and earned.

In our work, we work with Tribal communities across the U.S. and I carry those teachings along with me. My colleagues abide by those teachings because we emphasized the importance of showing respect to all Tribal and Indigenous people especially when it involves their lands, knowledge and culture. We have non-Tribal/Indigenous partners who have learned to abide by these unspoken rules and those who are still learning and want to learn. It is an important part of our work but also our personal lives. Respect is the key to trustful relationships.

As we move into 2021, we look to a better future. If it's one thing we would do differently or perhaps more often, I would ask that you all look to our Elders, those still with us and those who have walked on, for the resilience they displayed during their own hardships. Despite what they went through, they show their strength, humor, love, kindness and willingness to share their knowledge. They deserve our respect and we should show it by honoring their teachings they have passed on to us. Respect and Strength.

[-Deb Haaland: Nomination for Interior Secretary](#)

[-Lessons From Tribal Culture: What Gramma Taught Me About Aging Services](#)

[-Dan Wildcat on Culture & Community](#)

[-Native Science: Understanding and Respecting Other Ways of Thinking](#)

[-Guidelines for Considering Traditional Knowledges in Climate Change Initiatives](#)

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

### Advisory Committee

#### Members:

##### Tribal Representatives:

###### **Jerry Cain**

Mississippi Band of Choctaw Indians

College of Menominee Nation

###### **Jamie Donatuto**

Swinomish Indian Tribal Community

###### **Michael Durglo, Jr.**

Confederated Salish & Kootenai Tribes (CSKT)

###### **Shasta Gaughen**

Pala Band of Mission Indians

###### **Desirae Roehl**

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

###### **Ashely 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 Adaptation Science Center & Aleutian Pribilof Islands Association

South Central Climate Adaptation Science Center

###### **Chas Jones**

Northwest Climate Adaptation Science Center & Affiliated Tribes of NW Indians

###### **Sara Smith**

Northeast Climate Adaptation Science Center & College of Menominee Nation

###### **Stefan Tangen**

North Central Climate Adaptation Science Center & Great Plains Water Alliance

###### **April Taylor**

South Central Climate Adaptation Science Center & Chickasaw Nation

###### **Casey Thornburgh**

Northeast/Southeast Climate Adaptation Science Center & United Southeastern Tribes

###### **Althea Walker-Ortiz**

Southwest Climate Adaptation Science Center & American Indian Higher Education Consortium

# In The News

[Salmon People: A Tribe's Decades-Long Fight to Take Down the Lower Snake River Dams and Restore a Way of Life](#)  
Sunlit mist drifted across basalt cliffs and hillsides aglow in a soft pelage of summer grass, turned gold now with autumn. The river churned and swirled, and its voice was loud with the first rains of the season. A bighorn sheep picked its way over the hills, and petroglyphs on the basalt along the riverbanks came into view – including images of bighorn sheep, pecked into the rocks thousands of years ago, by ancestors of the Nez Perce, native people of these lands and waters. © Seattle Times, 12/01/20

[Once-Ignored Promises to Tribes Could Change the Environmental Landscape](#)  
Michigan officials announced plans to shut down a controversial oil pipeline that runs below the Great Lakes at the Straits of Mackinac. Gov. Gretchen Whitmer and Attorney General Dana Nessel, both Democrats, cited several reasons for the decision, including one that got the attention of tribal leaders in Michigan who have been fighting the pipeline for years. In the shutdown order, Whitmer referenced an 1836 treaty in which tribal nations ceded more than a third of the territory that would become Michigan in exchange for the right to hunt and fish on the land in perpetuity. An oil spill from the pipeline would destroy the state's ability to honor that right, Whitmer said. ©1996-2020 The Pew Charitable Trusts, 12/01/20

[Report: Native Youth are Medicine](#)  
In a year ravaged by a global pandemic, the Center for Native American Youth has aptly named their 2020 State of Native Youth report, "Native Youth Are Medicine." Released annually during Native American Heritage Month, the report shines a light on the priorities of Native youth and the issues, such as climate change and social justice, that they are already taking the lead on. © Indian Country Today, 12/02/20

[Listing of Whitebark Pine Could Give Montana's Alpine Forests a Chance](#)  
After waiting more than a decade, whitebark pine may finally receive endangered species protection. But some say the listing proposal may need modification to be effective. The U.S. Fish and Wildlife Service this week announced it was considering listing whitebark pine as a threatened species and was opening a 60-day public comment period. © Missoula Current, 12/03/20

[A Huge Oil Pipeline is Coming to Minnesota – and with it the risk of Covid](#)  
As Covid-19 cases surge in Minnesota,

an oil company is bringing in thousands of out-of-state workers to finish building a pipeline from Canada that will stretch hundreds of miles across the state. Environmental advocates and Native American tribes have fought Enbridge Energy's Line 3 proposal for years, and now medical professionals are joining in to plead with the governor to halt construction amid the pandemic. © The Guardian, 12/04/20

[Everything Depends on the Corn: As Crops Wither, the Hopi Fear for Their Way of Life](#)  
For 2,000 years, the Hopi have been growing corn in an arid landscape, relying on the rains. Now climate change threatens their farming traditions. On a barren patch of sandy ground, Beatrice Norton stood beside her son examining the rows of corn. A few of the biggest cornstalks grew waist-high. Most of the plants were knee-high or smaller. © Arizona Central, 12/07/20

[November 2020 Among Warmest Novembers on Record, NOAA and NASA Report](#)  
November 2020 was the second warmest November since global record keeping began in 1880, behind the record set in 2015, NOAA's National Centers for Environmental Information, NCEI, reported December 14. NASA rated the month as the warmest November on record, as did the European Copernicus Climate Change Service. The Japan Meteorological Agency rated it as the second-warmest. Minor differences in rankings often occur among various research groups, the result of different ways they handle data-sparse regions such as the Arctic. ©2020 Yale Climate Connections, 12/14/20

Audio: [Sixteen-year-old First Nations Advocate Autumn Peltier Speaks Up for Clean Water](#)  
In 2003, Josephine Mandamin walked around Lake Superior carrying a pail of water. It was the first of many walks the Anishinaabe grandmother took to call for more action to protect clean water. Autumn Peltier is Mandamin's great niece and a member of the Wiikwemkoong First Nation. "When we're born as Anishinaabe people, we're automatically given that role to protect the water and the land," she says. Sixteen-year-old Peltier has followed in her aunt's footsteps as a water protector and climate activist. ©2020 Yale Climate Connections, 12/14/20

[With Historic Picks, Biden Puts Environmental Justice Front and Center](#)  
President-elect Joe Biden chose Rep. Deb Haaland (D-N.M.) Thursday to

serve as the first Native American Cabinet secretary and head the Interior Department, a historic pick that marks a turning point for the U.S. government's relationship with the nation's Indigenous peoples. ©2020 Washington Post, 12/17/20

["This is Not Our First Pandemic"](#)  
Since the 1500s, when ever-larger numbers of Europeans began arriving in this hemisphere, disasters have come thick and fast for the First Nations, including tens of millions wiped out within a century by continual waves of unfamiliar diseases—measles, influenza, smallpox, typhus, diphtheria, and more. Village after village stood empty. Enduring shock and grief, the survivors relied on ancient lifeways to support them as new trials arose. Here, three Indigenous communities share heritage ways to live and care for each other that they have refined during this latest pandemic. The aim now, as ever, is ensuring a safe, sustainable future for their people. The plans meet the tests of both time and extreme adversity. Native people have told me so many times it has become a refrain: "We are still here." © Yes! 12/18/20

['There's good fire and bad fire.' An Indigenous Practice May Be Key to Preventing Wildfires](#)  
For thousands of years, North American tribes carefully burned forests to manage the land. The future may lie in a return to that past. In Robbins's part of the forest, the ancestral homeland of the Yurok, she has been training teams of fire-lighters. They wear bright yellow flame-retardant Nomex suits and carry torches that drip burning petroleum. Under her watchful eye, they spread lines of flame beneath the trees. ©2015-2020 National Geographic Partners, LLC., 12/27/20

Audio: [Climate Change Alters a Louisiana Tribe's Way of Life](#)  
"Not only were we fisherman, but our entire food came from the land. And there were traditionally few grocery stores in many of our bayous simply because everything we needed, we had right there, and that includes our medicines," says Shanondora Billiot. Billiot is a citizen of the United Houma Nation and an assistant professor of social work at Arizona State University. She has studied how environmental changes affect the tribe. She says climate change has altered the timing and abundance of fish harvests. And dredging by the oil industry, combined with sea-level rise, has allowed salt water to seep further inland. That makes it harder to grow food. ©2020 Yale Climate Connections, 12/20



# Resources

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## **Adaptation Strategies and Approaches for California Forest Ecosystems**

Adapting to climate change can be such a broad and amorphous idea that would-be actors are left without clear directions. “Adaptation Strategies and Approaches for California Forest Ecosystems”, recently published by the USDA CA Climate Hub, is a menu of tangible, but flexible, options for land managers who want to integrate climate change considerations into their management. The menu features a nested set of management strategies, associated approaches, and examples of specific tactics. [Click here](#) to view the menu.

## **Climate Adaptation Integration Tool (CAIT) Incorporates Climate Information into Local Decision-Making Processes**

In a multi-agency effort supported by the Northwest CASC, scientists from the USGS, U.S. Forest Service, and various NGO's recently released the CAIT to help resource managers incorporate downscaled climate data into local climate adaptation decision-making processes. [Click here](#) to review the tool.

## **Tools for Equitable Climate Resilience – Fostering Community Leadership**

With the support of the Kresge Foundation, River Network embarks on the journey of exploring climate resiliency strategies and equitable engagement of communities in climate resilience work. This two-part toolkit presents Community-Based Participatory Research (CBPR) and Leadership Development as essential tools for addressing the diverse risks posed by climate change; each respective tool provides case studies regarding CBPR and Leadership Development, as well as comprehensive descriptions of the theory and practice of each strategy. [Click here](#) to review the toolkit.

## **The Northern Institute of Applied Climate Science and USDA Northern Forests Climate Hub – Adaptation Planning and Practices Online Course**

NIACS and the USDA Northern Forests Climate Hub are offering the Forest Adaptation Planning and Practices training as an online course for forest and natural resource managers in the Midwest and Northeastern regions. There is no registration fee for this course. For more information and to register, [click here](#).

## **The Impact of COVID-19 on the Lives of Indigenous Women and Their Strategies to Deal with the Pandemic**

The spread of the COVID-19 pandemic has exposed the structural historical inequalities experienced by Indigenous Women, being ranked among the groups most at risk due to the particular conditions in which indigenous peoples live. [Click here](#) to review the International Indigenous Women Forum documentation of the impacts of COVID-19 on the lives of Indigenous women.

## **Updated CREAT Risk Assessment Application for Water Utilities**

Creating Resilient Evaluation and Awareness Tool is a risk assessment that helps utilities to adapt to extreme weather events by better understanding current and long term conditions. To review this assessment tool, [click here](#).

## **National Integrated Drought Information System (NIDIS): Tribal Drought Engagement Strategy for the Midwest and Missouri River Basin**

In order to ensure the inclusion of indigenous perspectives in the implementation of our DEWS, NIDIS launched a Tribal Drought Engagement initiative in January 2019 in collaboration

with the Masters of Environment Program at the University of Colorado-Boulder. The project aimed to strengthen relationships with tribal managers across the Missouri River Basin and Midwest DEWS regions in order to effectively deliver timely and relevant drought information. For more information [click here](#).

## **Native Perspectives on Public Land and Tribal Preservation**

The Grand Staircase-Escalante National Monument has deep historical and modern-day connection to Native peoples, including the Hopi, Zuni, Dine/Navajo, San Juan Southern Paiute, Kaibab Paiute, Ute, Ute Mountain Ute, and Acoma nations. The Grand Staircase Escalante Partners partnered with the Grand Canyon Trust (GCT) to bring you a five-part teach-in series, hosted by Talia Boyd, Cultural Landscapes Program Manager for GCT. To listen to the video recordings, [click here](#).

## **Announcing the Launch of the Energy Sovereignty Institute (ESI) Website**

ESI is pleased to announce the launch of their new online information clearinghouse and resource-based website. The website offers practical information to support the design and development of sustainable tribal energy projects, including how-to guides for residential, community facility, and utility scale projects, as well as community microgrid systems. Resources include technical and funding information, case studies, and downloads. There is also a discussion forum to support stakeholder communications. To view the website, [click here](#).

## **Food Sovereignty and Self-Governance: Inuit Role in Managing Arctic Marine Resources**

For thousands of years, Inuit have been part of the Arctic ecosystem. Inuit have thrived and built their culture rooted in values that shape the relationships they have held with everything within this ecosystem. Those values – including respect, collaboration, and sharing – all aid in supporting healthy and harmonious relationships and communities. A core element of Inuit culture that incorporates these values is hunting, gathering, and preparing foods. Discussions about food security require an understanding of the far-reaching implications of how issues of food security interact with culture, history, management systems, and world views. To review the full report, [click here](#).

## **Convention on Biological Diversity (CBD) - Global Biodiversity Outlook (GBO)**

GBO-5 provides global summary of progress towards the Aichi Biodiversity Targets and is based on a range of indicators, research studies and assessments, as well as the national reports provided by countries on their implementation of the CBD. The national reports provide rich information about the steps taken in countries worldwide in support of biodiversity conservation, sustainable use, and the fair and equitable sharing of benefits. To review the report, [click here](#).

## **Squaxin Island Tribe's Sea Level Rise Story Map**

Squaxin Island is centered near the entrances to the seven inlets of the southern Puget Sound which surround it like the cross-poles of a sacred hoop. This is where our lifeblood begins and flows. This tiny island of sea fog and rain, salmon and cedar, is undaunted by the ebb of time. One with the sea that surrounds her, the pulse of the island is rhythmic and primal; it has in many ways become the very soul of the tribe that bears its name. [Click here](#) to view the map.

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### **New Climate Change Adaptation Plan:**

#### **[Ute Mountain Ute Tribe Climate Action Plan](#)**

A Collaboration of the Ute Mountain Ute Tribe Climate Change Adaptation Planning Working Group and Colorado State University. *Suggested Citation:* Ute Mountain Ute Tribe, 2020. Núchiú Ute Mountain Ute Tribe Climate Action Plan.

#### **[The USDA 1994 Tribal Scholars Program](#)**

This program was established in 2008 in partnership with the USDA and 1994 institutions, tribally controlled colleges, and universities with land-grant status. The program provides full tuition, fees, books, and a summer internship to students pursuing degrees in agriculture, food, natural resource sciences, or related academic disciplines. When the student has completed the academic and summer work requirements of the scholarship, USDA may convert the student to a permanent employee without further competition. **Application deadline: January 31, 2021**

#### **[UC Santa Cruz Doris Duke Scholars Program](#)**

This two-year program serves students with the highest potential to make sustained contributions as conservation innovators and leaders to increase the racial, ethnic and cultural diversity of the conservation field. The program is looking for 20 passionate, creative undergraduate students from any major, currently in their freshman or sophomore years or within at least two more years of college left. Doris Duke Conservation Scholars must be U.S. citizens, nationals, or “dreamers” enrolled at or accepted as transfer students to four-year colleges or universities anywhere in the U.S. or its territories. **Application deadline: February 1, 2021**

#### **[North Central Climate Adaptation Center – Tribal Climate Leaders Program](#)**

The Tribal Climate Leaders Program (TCLP) supports Native American graduate students to become the next generation of tribal environmental leaders. The TCLP currently provides 5 fully funded, 2-year fellowships to pursue a graduate degree at the University of Colorado Boulder in fields related to climate adaptation science. The program is open to Native American students affiliated with the 32 federally-recognized tribes in the 7-state North Central region.

#### **[U.S. Department of Agriculture, Climate Hubs – Supporting Climate Change Mitigation Through K-12 Student Education](#)**

Investing in K-12 climate change education can provide valuable returns in the form of both long-term and short-term mitigation. In addition to the influence that education can have on students’ actions as future stakeholders, research shows that children can be effective agents of change within their families regarding environmental behaviors. The Southwest Climate Hub partnered with the nonprofit Asombro Institute for Science Education to create engaging and scientifically rigorous secondary education units on climate change and the water cycle, agricultural systems, and the carbon cycle.

#### **[Environmental Science for Society Certificate Program](#)**

The Transdisciplinary Environmental Science for Society (TESS) initiative at the University of Arizona has developed a set of online professional development short-courses, to equip future generations of researchers, practitioners, political leaders, and educators with the knowledge to actively confront society’s most complex environmental challenges. Many researchers want to apply their research to real-world problems, and decision makers want better access to advances in science. TESS content

helps researchers and practitioners to bridge the gap between science and the needs of society. TESS is built for both working professionals to work at their own pace. Once each course is completed, participants will receive a digital badge and will be eligible to receive 2 continuing education units per course. Part 2, on Practicing Collaborative Research begins January 25, 2021.

#### **[Funded PhD Opportunity at RIT](#)**

The Energy Sovereignty Institute is collaborating with the Rochester Institute of Technology to offer a fully funded PhD in Sustainability for a highly motivated student focusing on energy sovereignty research topics. The ideal student would have significant experience working with Indigenous communities and a strong understanding of and sensitivity to Indigenous cultures. Financial support is available to cover tuition and a monthly stipend. For more information and to apply, click here. **Application deadline: January 15, 2021**

#### **[Abstract Submission Request: ‘At What Point Managed Retreat? Resilience, Relocation and Climate Justice’](#)**

This conference addresses a range of scientific, social, policy and governance issues around managed retreat (also known as strategic realignment and planned relocation). The conference, a major initiative of Columbia University’s Earth Institute, will bring together stakeholders from the public, private and nonprofit sectors, together with academics, scientists, and community representatives, to help develop a common understanding of this complex issue., and move the needle toward equitable solutions. A major emphasis will be on issues of environmental justice, in recognition that the people most impacted by decisions around retreat have a key role in these conversations. In addition to individual presentations, submissions will be accepted for organized panels or ideas for other interactive trainings or workshops. **Abstract submission deadline: January 15, 2021**

# Other Items of Interest

## [2021 Student Summer Internship Opportunity: Institute for Tribal Environmental Professionals \(ITEP\)](#)

ITEP offers two types of internships for Native American and other college students. The student summer internship (SSI) program is a 8-week program for college students and the short internship (SIP) program is a 20 to 40 hour long internship program for high school and college students. The purpose of the internship programs is for students to gain hands-on skills with EPA or other governmental and tribal environmental offices. The internship programs are funded by a grant from the U.S. Environmental Protection Agency. **Deadline to apply: Feb 26, 2021 and Host deadline Jan 18, 2021.** Contact [EEOP-INTERN@nau.edu](mailto:EEOP-INTERN@nau.edu) for more information.

## [International Global Change Science Lead](#)

The U.S. Global Change Research Program's (USGCRP) International Global Change Service Lead is responsible for coordinating and overseeing implementation, under the direction of Program leadership, interagency activities to promote international cooperation on global change research. This work includes a range of functions to help the Program coordinate Federal activities with those of other nations and international science organizations, and to foster the integration of international science activities into USGCRP activities as appropriate.

## [Department of Environmental and Occupational Health Sciences seeking Post-Doctoral Scholar](#)

The DEOHS at the University of Washington (UW) School of Public Health in conjunction with the UW Center for Health and Global Environment (CHANGE) seek an outstanding Post-Doctoral Scholar to assist in a suite of climate and health projects. These projects include an effort to collect information on municipal heat action plans and activities to reduce exposure to extreme heat and an effort to assess the impact of an indigenous climate change health adaptation effort undertaken by the Swinomish Indian Tribal Community.

## [Mendenhall Research Fellowship Program](#)

The USGS Wetland and Aquatic Research Center seeks a Mendenhall Fellow to collaborate with USGS scientists researching invasive species and other conservation and restoration issues. The Fellow's research would focus on the valuation of natural resources and ecosystem services impacted by invasive species and the cost and benefits of management actions. **Application deadline: January 4, 2021**

## [National Center for Atmospheric Research \(NCAR\) Early Career Faculty Innovator Program](#)

The NCAR Innovator Program will award two-year grants for up to six faculty from the social and behavioral sciences. Awards will be up to \$400K over two years, starting in fall 2021. During the award period, faculty awardees will connect with NCAR researchers and co-develop interdisciplinary and actionable research projects that respond to societal needs. For more information and to apply, [click here](#). **Application deadline: January 5, 2021**

## [NOAA Climate & Global Change \(C&GC\) Postdoctoral Program](#)

UCAR's Cooperative Programs for the Advancement of Earth System Science (CPAESS) manages the NOAA Climate and Global Change Postdoctoral Program on behalf of the NOAA Climate Program Office. **Application deadline: January 8, 2021**

## [Center for Ecosystem Science and Society at Northern Arizona University: Call for Graduate Applications](#)

PhD and MS positions in Ecosystem Ecology are available in the Center for Ecosystem Science and Society (EcoSS) at Northern Arizona University. The EcoSS mission is to conduct high-impact,

innovative research on ecosystems and how they respond to and shape environmental change, to train next-gen scientists, and to communicate discovery and its relevance to people. Graduate student benefits include stipend (TA or RA), tuition waiver, and health insurance. **Application deadline: January 15, 2021**

## [The USDA 1994 Tribal Scholars Program](#)

This program was established in 2008 in partnership with the USDA and 1994 institutions, tribally controlled colleges, and universities with land-grant status. The program provides full tuition, fees, books, and a summer internship to students pursuing degrees in agriculture, food, natural resource sciences, or related academic disciplines. When the student has completed the academic and summer work requirements of the scholarship, USDA may convert the student to a permanent employee without further competition. **Application deadline: January 31, 2021**

## [NOAA Student Internships](#)

NOAA is offering paid summer internships targeted towards current 2nd and 3rd-year undergraduate and enrolled graduate students to work in areas that will provide robust research and/or operational experience that will prepare the student for further study in NOAA fields, for application to fellowships or for the NOAA-mission workforce. **Application deadline: February 1, 2021**

## [UC Santa Cruz Doris Duke Scholars Program](#)

This two-year program serves students with the highest potential to make sustained contributions as conservation innovators and leaders to increase the racial, ethnic and cultural diversity of the conservation field. The program is looking for 20 passionate, creative undergraduate students from any major, currently in their freshman or sophomore years or within at least two more years of college left. Doris Duke Conservation Scholars must be U.S. citizens, nationals, or "dreamers" enrolled at or accepted as transfer students to four-year colleges or universities anywhere in the U.S. or its territories. **Application deadline: February 1, 2021**

## [Northern Arizona University: MS and PhD Positions](#)

Northern Arizona University is recruiting up to three graduate students (MS or PhD) for funded positions that begin in Fall 2021. The positions are focused on understanding modern dust cycling on the Colorado Plateau, and on understanding rapid Arctic warming. For further information visit, [click here](#) or email [Nicholas.mckay@nau.edu](mailto:Nicholas.mckay@nau.edu)

## [Pathways Recent Graduate:GS-11/12 Geographer/Physical Scientist \(Climate Impacts\)](#)

The SE Climate Adaptation Science Center is recruiting for a current or recent graduate to engage with natural resource managers and USGS scientists to develop and deliver climate science research and technical assistance to better understand the impacts of a changing climate on eastern US ecosystems and species. Applicants should have a firm understanding of climate models and appropriate application of model outputs in impact studies. Contact Ryan Boyles, [rboyles@usgs.gov](mailto:rboyles@usgs.gov), for more information.

## [Native American Summer Research Internship \(NARI\)](#)

This dynamic summer research opportunity for Native American undergraduate junior and senior students who are interested in Health Science research. The internship is located at the University of Utah in Salt Lake City, Utah. It is a 10-week, paid summer internship, funded by the National Institutes of Health. **Application deadline: February 12, 2021**



# 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 Univ. 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/>

### On-Request Technical Assistance from DOE Office of Indian Energy

The DOE OIE provides federally recognized Indian tribes, including Alaska Native villages, tribal energy resource development organizations, and other organized tribal groups and communities, with technical assistance to advance tribal energy projects at no cost. Technical experts from DOE and its national laboratories, along with other partnering organizations, provide support to assist Indian tribes and Alaska Native villages with energy planning, housing and building energy efficiency, project development, policy and regulation, resilience, and village power.

### Wildland Fire Assistance Available in Oregon

Individual Disaster Assistance from FEMA for Oregonians who lost their homes in Clackamas, Klamath, Linn, Lane, Douglas, Marion, Jackson, and Lincoln counties are

eligible to register and receive fire recovery funds. More information on Individual Disaster Assistance and eligibility can be found here.

### Bureau of Reclamation – WaterSMART Drought Response Program: Drought Contingency Planning Grants for FY 2021

This funding opportunity supports a proactive approach to drought by providing financial assistance to water managers to develop and update comprehensive drought plans (Drought Contingency Planning) and implement projects that will build long-term resilience to drought (Drought Resiliency Projects). Funding Opportunity Number: BOR-DO-20-F003. **Application deadline: January 6, 2021**

### Strategic Environmental Research and Development Program (SERDP)

SERDP is requesting proposals that respond to the following focused Statements of Need (SONs) in Resource Conservation and Resiliency related to: 1) Threatened, endangered, and at risk terrestrial species' response to multiple stressors, 2) Saltwater intrusion impacts on Department of Defense installation infrastructure. **Pre-proposal deadline: January 7, 2021**

### FEMA's Hazard Mitigation Grants

The application period for the Fiscal Year 2020 (FY20) Hazard Mitigation Assistance Notices of Funding Opportunities for two competitive mitigation grant programs provides states, local communities, tribes and territories funding for eligible mitigation activities to strengthen our nation's ability to build a culture of preparedness by reducing disaster losses and protecting life and property from future disaster damages. **Application deadline: January 29, 2021**

### National Forest Foundation 2021 Matching Awards Program Nationwide Grant Opportunity

The National Forest Foundation is pleased to announce that it is currently soliciting proposals for its Matching Awards Program (MAP). MAP is a national, competitive grant program that provides federal funds for on-the-ground projects benefiting America's

National Forests and Grasslands. Geographic Scope: National, must benefit U.S. National Forests and Grasslands. Eligible Applicants: 501(c)(3) nonprofits, universities, and federally recognized Native American tribes. Match Requirements: 1:1 nonfederal cash match. **Application deadline: January 31, 2021**

### Department of Energy: Energy Infrastructure Deployment of Tribal Lands 2020 Funding Opportunity

DOE's Office of Indian Energy is soliciting applications from tribal nations, including Alaska Native Regional Corporations and Village Corporations, Intertribal Organizations, and Tribal Energy Development Organizations. **Application deadline: February 11, 2021**

# 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>

\*\*Due to COVID-19, many events have been either postponed or cancelled. For a full list of Tribes and Climate Change Related Gatherings, click [here](#).

## January 2021

**Virtual Conference: Jan 5-8, 2021, [National Council for Science and the Environment \(NCSE\) 2021 Annual Conference](#)** This virtual conference that will explore the link between the changes in Earth's physical systems and its social institutions by engaging leaders from the sciences, education, government, policy, business, and civil society.

**Virtual Summit: Jan 12, 10:00am-1:30pm (Pacific). [National Tribal Leadership Climate Change Summit Session II: Tribal Climate Resiliency](#)** The second session will focus on learning about policies and practices that promote Tribal Climate Resiliency in the U.S. and Canada. The purpose is to engage leadership and staff in building resilience to meet pressing, complex challenges Indigenous communities must face through leadership engagement and increased familiarity with successful examples, tools, and technologies.

**Virtual Conference: Jan 20, 9:00am-12:15pm (Central). [Minnesota Climate Adaptation Conference](#)** Offered by the Minnesota Climate Adaptation Partnership and University of Minnesota. Keynote speaker Sam Grant, Executive Director of MN350, a panel discussion moderated by Heidi Roop, the Extension Climate Specialist, and breakout session for the audience. Panel includes Sara Smith, Midwest Tribal Resilience Liaison.

**Virtual Retreat: Jan 25-27, USET Virtual Climate Adaptation Plan Writing Retreat** This retreat will provide writing opportunities for Tribal Nations continuing to make progress on their adaptation plans, opportunities for feedback, peer editing and reflection, addressing gaps in supporting data and information, and identifying resources to help with implementation. For more information, please contact Casey Thornbrugh, USET Tribal Climate Science Liaison at [cthornbrugh@usetinc.org](mailto:cthornbrugh@usetinc.org).

**Webinar: Jan 26, 11:30am-1:00pm (Pacific). [EPA's Competitive Grant Process and General Grants Issues Webinar](#)** This webinar is for federally recognized

tribes to learn about EPA's competitive grants process and general grant management and administrative issues. The webinar will cover grant topics including: how to find and apply for grant opportunities, EPA's Grants.gov requirements, information about the competitive process, and preparing proper budget detail. *No registration is required.* One the time and date of the webinar go to OGD's Grant Award Process [Webinar](#) and select "enter as guest" to join. Contact Luke Jones at [Jones.luke@epa.gov](mailto:Jones.luke@epa.gov) for more info.

**Webinar: January 27, 5:00-6:30pm (Pacific), [Building Climate Resiliency During COVID-19 Recovery](#)** Hosted by the University of Washington Climate Impacts Group. National experts on climate impacts science and policy will discuss how we can leverage the period of economic and social recovery following COVID-19 to build resilience to climate change.

## February 2021

**Virtual Workshop: Feb 03, 8:00-10:00am (Mountain). [Air Quality, Agriculture, and Climate Change Science and Applications Workshop](#)** The USDA Southwest and Southern Plains Climate Hubs invite you to a virtual science and applications workshop focused on agriculture, air quality and climate challenges of the southern United States. During this short, interactive workshop, scientists and resource managers will hear the most recent scientific advancements and draft a prioritized roadmap for research and outreach to advance resilient landscapes during climate change.

**Virtual Forum: Feb 8-11 (Alaska). [Alaska Forum on the Environment](#)** Technical sessions and environmental trainings are now offered all year long, through December 2021. To keep the tradition of the AFE event alive, enhanced content, trainings and world-renown keynotes will still take place in February.

**Virtual Conference: Feb 19, 8:00-6:00pm (Mountain). [Emerging Infection & Tribal Communities: What We Learned](#)** This one day conference seeks to focus primarily on the emerging outbreaks/ infections in the light of current COVID-19 outbreak.

This proposed conference incorporates both a scientific and a community focus, and will be open to everyone in general and members of Navajo Nation and other tribal communities of North America in particular without any registration cost virtually.

## March 2021

**Webinar: March 30, 5:00-6:30pm (Pacific), [The Next 25-Years: Building a Climate-Resilient Future](#)** Hosted by the University of Washington Climate Impacts Group. What do we need to do to prepare our communities, economies, and ecosystems for the climate of the future? This event will bring together scientists, community members and partners to imagine, brainstorm and plan for the next 25 years.

## April 2021

**Virtual Conference: April 6-8 - [11th Northwest Climate Conference](#)** The conference provides a unique opportunity to learn from and connect with a diverse community of experts fostering a more climate resilient Northwest. The event brings together practitioners, scientists, tribal communities, and decision-makers to share knowledge, ideas, and best practices related to climate change science, impacts, and adaptation in the Pacific Northwest. Topics include drought, wildfire, extreme events, coastal flooding, human and ecosystem health, and resiliency planning. Call for abstracts now open!

**Virtual Forum: April 6-8. [2021 Southwest Adaptation Forum \(SWAF\)](#)** The Climate Science Alliance is proud to host the virtual 2021 SWAF in partnership with the Southwest Climate Adaptation Science Center. SWAF 2021 will bring together leaders, practitioners, and researchers from across the Southwest to explore efforts that are advancing climate change adaptation including hands-on activities, networking, and professional training.



## Upcoming Events Continued..

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**Summit: April 19-21, Menominee Conference Center, Keshena, WI. [Shifting Seasons Summit: Sharing Adaptation and Resilience Knowledge Across Indigenous Communities](#)** This gathering will focus on climate resilience planning and implementation within Tribes and across Tribal ceded territories in the Northeast Region. This summit will include network-building opportunities and initiatives developed outside of the Northeast by capacity-building organizations, academic institutions and tribal nations. Registration to open soon!

### May 2021

**Training: May 23-28, Anchorage, Alaska. [Tribal Climate Camp](#)** The Affiliated Tribes of Northwest Indians, U.S. Bureau of Indian Affairs, Michigan State University, Portland State University's Institute for Tribal Government, Chugach Regional Resources Commission, and the Northwest Climate Adaptation Science Center are collaboratively offering the Tribal Climate Camp (TCC) to support teams of tribal leaders, climate change coordinators, planners, and program managers to build skills, gather information, and develop tribal policy needed to address climate change impacts.

### June 2021

**Virtual Conference: June Dates TBD. [At What Point Managed Retreat? Resilience, Relocation, and Climate Justice](#)** Sessions will occur over a two-week period in the second half of June 2021. This conference addresses a range of scientific, social, policy and governance issues around managed retreat (also known as strategic realignment and planned relocation). The conference, a major initiative of Columbia University's Earth Institute, will bring together stakeholders from the public, private and nonprofit sectors, together with academics, scientists, and community representatives, to help develop a common understanding of this complex issue, and move the needle toward equitable solutions. A major emphasis will be on issues of environmental justice, in recognition that the people most impacted by decisions around retreat have a key role in these conversations.

### 2022 January

**Virtual Conference: Jan 19-21, 2022. Southwestern Tribal Climate Change Summit** The third installment of the Summit will continue to build off of momentum gathered from the inaugural event in 2017 in San Diego, CA followed by the 2019 event in Idyllwild, CA. In response to the pandemic we have pushed the event to January 2022 in the hopes of gathering in person. Hosted by the La Jolla Band of Luiseno Indians, Pala Band of Mission Indians and Climate Science Alliance.