



Institute for Tribal Environmental Professionals



Tribes & Climate Change Newsletter

2021 November

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.



Lake Powell dusk landscape, Utah/Arizona, USA.

Meet the Climate Change Team

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Preparing to take flight.

Earlier today, my family and I went on our daily walk before my husband left for his night shift at the hospital. It had been sprinkling all day wetting the earth and air. As we walked, I noticed the moss a brighter green while the earth was drinking in the moisture. Blue jays flew from tree to tree, and the clouds over the mountains made for an amazing evening. We walked in beauty.

Each day, I try to look around and see what is around me. This habit started when I was herding goats and sheep growing up on my Diné homelands. I had to be vigilant so I would not lose one member of the flock or run into another shepherd's herd. My vigilance also meant that I would time it just right so I would come home to a full meal after eating my usual meals of spam, commodity cheese and homemade tortillas. Sometimes I would be lucky to have kneel-down-bread, blood sausage, or mutton jerky. I have fond memories of those long days. Some days, I would feel the dread of going out to herd sheep because I wanted to stay home or tag along to go to Tuba or Flagstaff. It was rare that I ever went to town but when I did, it was a treat, and those trips did not happen until my early teens. For the most part, I enjoyed herding sheep and goats because it taught me discipline, patience, and vigilance. It gave me memories that are rare for younger generations. I am grateful for rising before the sun, praying and getting ready to let the sheep out. These were simple times but my growth and eventual transition to high school in a border town

made my shepherding routine rarer and rarer. At least, the memories and lessons have stayed with me.

Do you ever take a walk and just be in the moment? If not, you should try it and see and hear what is around you. Our minds are full of busyness, deadlines, errands, emails, and so much more. At forty-one years, I have finally started learning how to manage my stress. For most of us, being in stress causes us to ignore what is in front of and around us, and indulge. These days when I feel overwhelmed, I try to communicate how I am feeling whether it is to my partner or by writing it down. Most often, I go outside, chop wood, spend time with my children, and think of how fortunate I am to have what I have. I have to live in the moment or else the stress and negativity takes over and I am not fun when that happens. So next time you go outside, observe your surroundings, even if you live in the concrete jungle. I am a firm believer that there is beauty to be found anywhere. Try to find that beauty and positivity and it just might make your day better. As I said last month, remember to walk, think, speak, breath and walk in hozhó. The Beauty way. In harmony. Take care of yourself.

[Eight Generation](#)

[Yo-Yo Ma, Indigenous People & the Grand Canyon](#)

[Native American Youth Council & Chicago Public Schools](#)

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

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In The News

[Indigenous Peoples Seek Greater Voice and More Influence at COP26 Climate Conference](#)

When she was first elected as a tribal leader in 2006, Fawn Sharp, now the vice president of the Quinault Indian Nation in Washington state, confronted an ecological catastrophe: the virtual end of the sockeye salmon run. “We used to have millions of sockeye salmon returning,” Sharp said. “The year I got elected, we only had 3,000.” Sharp later learned issues like warming ocean temperatures and rising acidity in the seawater, along with the shrinking glaciers that feed the river that bears her tribe’s name, all contributed to the near extinction of a resource that is central to subsistence and to the identity of the Quinault people. © AZ Central, 10/25/21

[Akiak Village Goes Live With Its New Satellite Connection to Broadband, High-speed Internet](#)

The small Akiak village near Bethel is switching on its new broadband and high-speed internet connection through the OneWeb Low Earth Orbiting Satellite, or LEOS, system. The system will be fully operating on Nov. 15 but a successful test of the connection was carried out Sept. 14 and village residents are now using the system. “The first testing of the OneWeb network connection was established between the user terminal in Akiak and OneWeb satellites, completing the connection to the Internet,” said Shawn Fitzpatrick, Vice President of Engineering at Pacific Dataport, the Anchorage-based company working with the Akiak Native Community and OneWeb. © Frontiersman, 10/27/21

[Donor Nations Commit \\$1.7bn to Help Indigenous People Protect Forests](#)

An alliance of governments and private funders has committed to provide \$1.7 billion to support indigenous people advance their land rights by 2025, in recognition of their critical role in conserving forests. It is one of a handful of funding initiatives for forest protection announced at Cop26 climate talks in Glasgow. Twelve donor countries pledged a total of \$12 billion in public funds, with private co-financing worth \$7.2 billion. The funding supports a pact signed by more than 100 countries to halt and reverse forest loss and land degradation by 2030. © Climate Home News, 11/02/21

[COP26: Carbon Offsetting ‘A New Form of Colonialism,’ says Indigenous Leader](#)

The leader of an Indigenous grassroots movement has denounced carbon offsetting, dubbing it “part of a system that privatizes the air that we breathe”. “It allows polluters to buy and sell permits to pollute instead of cutting emissions at the source,” Tom Goldtooth, executive director of the Indigenous Environmental Network, told The Independent at the Cop26 climate summit in Glasgow. “It lets governments and corporations pretend they are doing something about climate change, when they are not. © The Independent, 11/04/21

[Native-Led Indigenized Energy Initiative Seeks to Decolonize Renewable Energy](#)

In a bid to eliminate the “crippling” effects of energy poverty on Indigenous communities, specifically Native Americans a native-led nonprofit is relaunching and rebranding its efforts in order to better fulfill its mission of using renewable energy technologies to restore “sovereignty, vitality, and a sense of hope.” What was formerly known as Covenant Tribal Solar Initiative is now the Indigenized Energy Initiative, and is bringing together some of the ‘heavy hitters’ in Indigenous solar. © CleanTechnica, 11/04/21

[Indigenous Nations in Wisconsin Suing to Prevent Wolf Hunts](#)

For many Indigenous tribes across the United States, the wolf is a central part of their creation stories. In the Great Lakes region, tribes such as the Potawatomi, Chippewa, and Ottawa, believe that the gray wolf created the land on which we all live. “Our creator cast upon the wolf to wander around. As it ran around, land formed underneath of it, and formed the foundation we live on the foundation of the very land that we precious hold in high regard, protect, and worship,” said Kevin Allis, a member of the Forest County Potawatomi tribe, which is based in Crandon, Wisconsin. © Grist, 11/08/21

[Penticton Indian Band is Using Syilx Traditional Methods to Reduce Wildfire Risk](#)

The Penticton Indian Band (PIB) is working with BC Wildfire Service on a new wildfire risk reduction project using traditional syilx methods. “All of the PIB projects are informed by

Elders and knowledge keepers,” says James Pepper, director of PIB’s natural resource department. “They write the prescriptions, then we implement them.” © IndigiNews 11/10/21

[Bringing the Fight Against Dams to COP26](#)

For two weeks, leaders and representatives from around the world have gathered in person and virtually in Glasgow, Scotland, for the United Nations’ 26th annual climate change summit. This year, one of the things up for discussion is whether hydropower can be a solution to combat climate change. On Tuesday, Over 300 organizations from 78 countries delivered a declaration at COP26 renouncing that idea. © High Country News, 11/12/21

[White House Commits to Elevating Indigenous Knowledge in Federal Policy Decisions](#)

White House Office of Science and Technology Policy and Council on Environmental Quality released a first-of-its kind memorandum to initiate new federal guidance on Indigenous Traditional Ecological Knowledge. © The White House, 11/15/21

[Navajo and Hopi Farmers Keep the Culture of Food Alive](#)

The Navajo and Hopi nations in northeastern Arizona are known as “food deserts,” with little access to fresh fruits and vegetables. Tribal members lost land, languages, and farming practices when white settlers colonized the West. But local farmers are working to keep the culture of food alive for the next generation of Indigenous farmers, gardeners, and chefs. © KNAU News Talk, 11/15/21

[23 Indigenous American Food Activists, Educators, and Other Figures to Know](#)

November is National Native American Heritage Month, and in order to acknowledge and celebrate Native cultures we have compiled a list of indigenous American food activists, including chefs, writers, farmers, and more. The traditional foodways of Native American tribes have been largely suppressed since the arrival of Europeans in the Americas, but the following people have worked hard to revitalize and promote indigenous food and agricultural practices. © NYCFoodPolicy, 11/17/21

Resources

Domains of Refugia: A New Framework from the Connecting Wildlands & Communities Project

In conservation planning, assessing the potential for refugia largely focuses on climate change data. However, by not considering the impacts of multiple threats, our selection of refugia is limited or incorrect - potentially undermining conservation efforts. The Connecting Wildlands and Communities project researchers propose a new conceptual framework that can help us understand where shelter from multiple drivers of change can provide habitat for plants and animals to persist in our world. To review the article, click [here](#).

Traditional Learnings: Into the Field with Yurok and U.S. Forest Service Experts on Cultural Burning of Forested Lands

In the summer of 2021, Northwest CASC Tribal Climate Adaptation Liaisons and staff were invited by Northwest CASC-supported researchers from the U.S. Forest Service and the Yurok Tribe to join them on their site visits with cultural practitioners from the Cultural Fire Management Council. On the ancestral lands of the Yurok Tribe near Weitchpec, CA, engagement of traditional practitioners, Tribal staff, and government scientists has helped to integrate the concepts of holistic forest management and system resilience. To learn more, click [here](#).

FEMA's New Independent Study Course, IS-350: Tribal Hazard Mitigation Planning Training

FEMA has recently launched a new independent self-study course, available online through the Emergency Management Institute. The course provides information on preparing and implementing a tribal hazard mitigation plan. The course is intended for tribal government officials, planners, and other partners involved in tribal hazard mitigation planning. For more information and to register, click [here](#).

Department of Interior Climate Action Plan

The Department of the Interior (DOI) is working to build a modern, resilient climate infrastructure and clean energy future, putting environmental justice at the center of its mission to create millions of good-paying union jobs, while protecting the communities, natural, and cultural resources on which we all rely. DOI joined other federal agencies in the release of its Climate Action Plan on Oct. 7, 2021, demonstrating its commitment to use science as the foundation for decisions, recognizing that the Department's approach to adaptation should evolve as science informs an understanding of climate change risks, impacts, and vulnerabilities. To explore the plan, click [here](#).

New Edition of Kūlana Noi'i Released

A groundbreaking Hawai'i Sea Grant publication that seeks to build more just and generative relationships between researchers and community members was recently updated to better reflect the nuances and complexities of community-researcher partnerships. Kūlana Noi'i was initially developed in 2017 through a partnership between university researchers and place-based stewards, providing a set of ideas, values, and behaviors that served as a resource to facilitate open conversation and clearly articulated expectations. Kūlana Noi'i version 2.0 includes an enhanced introduction with guidance on using the publication as a starting point to spark deeper conversations, as well as updates to each of the kūlana to reflect lessons learned in previous/ongoing partnerships. For more details click [here](#).

Future Projections of Precipitation for Alaska Infrastructure

The University of Alaska Fairbanks (UAF) Scenarios Network for Action and Planning (SNAP) has developed a tool to incorporate future precipitation projections into the planning and

design of infrastructure. To review the tool, click [here](#).

Lifeways of the Little Colorado River

This is a new collection of stories, videos, audio clips, and art that offers a glimpse of the river's many faces. Indigenous peoples have forever lived along the Little Colorado River. It connects White Mountain Apache, Zuni, Hopi, Navajo, Paiute, Havasupai, Hualapai, and many other tribes to each other and to the Grand Canyon. It has been said that this river is like an umbilical cord that connects all of the emergence place of our Mother. Here, sheepherders, scientists, educators, farmers, artists, and activists share their personal and cultural connections to the Little Colorado River. To review these stories, click [here](#).

Informational Report: The Unmet Infrastructure Needs of Tribal Communities and Alaska Native Villages in Process of Relocating

The Bureau of Indian Affairs would like to announce the release of a 2020 report on The Unmet Infrastructure Needs of Tribal Communities and Alaska Native Villages in Process of Relocating to Higher Ground as a Result of Climate Change (Report). The Report was developed in a partnership of Federal agencies, Tribal organizations, the State of Alaska, and others. The Report focuses on Tribal communities and Alaska Native villages who are experiencing threats such as sea level rise, storm surge and ice jams, permafrost degradation, frequent flooding and persistent erosion, and similar impacts. It assesses the overall infrastructure need for Tribes and Alaska Native villages facing relocation, managed retreat, and protect-in-place decisions, highlights resources available, identifies the current unmet need, and moves further to discuss opportunities for policymakers to address this growing need. To read the report, click [here](#).

Abundance: A Story Map by Confederated Tribe Coos, Lower Umpqua and Siuslaw (CTCLUS)

Abundance is a story map provided by the modern Tribal government of Confederated Tribes of Coos, Lower Umpqua and Siuslaw to give voice to their stories and culture and enrich public school curriculum in Oregon. To view the story map, click [here](#).

Vaka Moana: Weaving Traditional and Modern Science to Understand Current and Future Ocean Conditions

A recent innovative virtual event invited participants to sail on Pacific currents and to hear Pacific Islanders share their stories of how they use both traditional knowledge and modern science in their day-to-day lives. The event was hosted by the Pacific Community (SPC), the region's hub for science, technology and innovation for sustainable development, and home to the Pacific Community Centre for Ocean Science (PCCOS), who have now made available two recordings as novel resources. To learn more, click [here](#).

ITEP's Featured Tribal Profile: Tribal Hazard Mitigation Planning Cohort

During October 2020, ITEP started its second, virtual cohort course, CC 202, focused on Tribal Hazard Mitigation Planning in the face of climate change. The course supported Tribal hazard mitigation planning through peer-to-peer learning and knowledge exchanges in a facilitated cohort focused on the Federal Emergency Management Agency's seven-step mitigation planning process and made use of FEMA's Tribal Mitigation Planning Handbook. This Tribal profile synthesizes the year-long virtual course, topics and resources covered, challenges that Tribes face in the THMP process and major takeaways for the cohort participants. To read the profile, click [here](#).

Job & Internship Opportunities

Host Sites Needed for Summer Internship Program

The Institute for Tribal Environmental at Northern Arizona University in Flagstaff, Arizona is seeking air quality focused offices and programs to host a college student for an 8-week summer internship. Tribal environmental offices, EPA offices, and other tribal environmental organizations are encouraged to apply. The interns will be highly motivated undergraduate or graduate students majoring in environmental or related careers from different colleges and universities nationwide. ITEP provides each student intern with a \$4,800 stipend, and housing and travel allowances for interns that relocate. The host site provides a workplace and supervision for the intern. Some internships may be virtual. You are welcome to submit applications for both virtual projects and in-person projects. The projects MUST focus on addressing air quality issues in tribal communities. **Application deadline: December 3, 2021**

NOAA Davidson Graduate Fellowship Applications Open

Graduate students are encouraged to apply for a two-year Margaret A. Davidson Graduate Fellowship, which will focus on field research in social or natural sciences within the nation's diverse estuaries. Students will work with a mentor, fellow scientists, and local communities as the team addresses coastal challenges. Apply for one of the 29 fellowships available through the National Estuarine Research Reserve System, which represent the apex of estuary science, where fieldwork, research, and community engagement come together to create the scientific advances that change communities and the world. **Application deadline: December 10, 2021**

Researcher in Applied Tribal Natural Resource Management - Native Land Information System

The Native Lands Advocacy Project is looking for a motivated candidate for an 18 month full-time position in data development for tribal geographies. The NLAP is a project of Village Earth and the developer of the Native Land Information System (NLIS); an online repository of native land agricultural, climate and natural resource management data. Following the launch of the NLIS, we are starting a new project to tailor natural resource management datasets to facilitate the development of Tribal Integrated Resource Management Plans (IRMPs) and Agriculture Resource Management Plans (ARMPS). **Application deadline: December 15, 2021**

Climate Adaptation Scientists of Tomorrow (CAST) Program - Undergraduate Research Experience

The goals of the Climate Adaptation Scientists of Tomorrow Program are to increase Diversity, Equity, and Inclusion in Science, Technology, Engineering, and Math (STEM); cultivate the next generation of climate scientists; and foster climate science programs at Minority Serving Institutions. Join a cohort of 12 undergraduate students to build your climate science skills, and lead an undergraduate research project in your area of interest. **Application deadline: December 20, 2021**

2022 NOAA Climate & Global Change Fellowship Announcement

The UCAR Cooperative Programs for the Advancement of Earth System Science is pleased to announce that we are seeking applicants for the 2022 NOAA Climate & Global Change Postdoctoral Fellowship Program. This fellowship program has an excellent reputation for attracting some of the brightest PhDs in the climate sciences. **Application deadline: January 7, 2022**

Developing and Implementing Tribal Solid Waste Codes Virtual Training

This virtual course with online assignments and follow-up workshop will focus on the writing and implementation of effective tribal solid waste codes. It has been developed for tribal environmental professionals without law experience, yet all levels of experience, other tribal staff, and council members are welcome. Each tribe that completes the training will receive legal and technical staff support via phone, email and/or web based meeting communication and shall include one-on-one assistance in developing their codes and ordinances through April 23, 2022. Complete attendance is required to receive legal and technical staff support and a certificate. **Application deadline: January 14, 2021**

Wildland Firefighters for 2022 Season

The Twin Peak Type 2 IA hand crew is currently recruiting qualified candidates for crewmember, lead crewmember, and squad leaders positions. These positions are seasonal, typically running from the beginning of May to the end of October. Qualified candidates must meet the minimum qualification of NWCG Firefighter Type II for crewmember positions. To be considered for these positions please submit an application with your resume, NWCG certifications, and updated IQCS or IQS records (if available) attached to twinpeaksia@utah.gov. **Open recruitment period: November 8, 2021 to January 25, 2022.**

2022 Hollings Preparation Program (HPP) Intern

The National Oceanic and Atmospheric Administration (NOAA) seeks to support a diverse and qualified pool of students for career development opportunities in NOAA-related fields. The Hollings Preparation Program (HPP) will prepare first-year undergraduates to be competitive applicants for the full NOAA Hollings Scholarship in their sophomore year of college. One element of the program that will be new in 2022 is the opportunity to place interns in Tribal offices that serve a NOAA-related function (e.g., Fisheries Management). Apply by sending a cover letter and resume to: hollingsprep.wcr@noaa.gov **Application deadline: March 11, 2022**

Environmental Justice Video Challenge for Students

EPA and its co-sponsors have launched the Environmental Justice (EJ) Video Challenge for Students to enhance communities' capacity to address environmental inequities. In Phase 1, students will submit a video that demonstrates innovative approaches to identify and characterize an EJ issue(s) in a community using data and publicly available tools. Challenge participants will have a chance to win up to \$20,000, as well as other additional benefits. **Submission deadline: April 1, 2022**

Southwest Tribal Climate Resilience Liaison

This full-time, professional position will provide direct extension support to tribes and tribal colleges & universities located in California, Nevada, Utah, and Arizona, the states comprising the service area of the Department of the Interior Southwest Climate Adaptation Science Center, located on the campus of the University of Arizona in Tucson, AZ. The position will draw upon the SW CASC Tribal Engagement Strategy and work with the SW CASC to develop and implement a communication, education and outreach program involving tribal governments, schools and communities focused on supporting climate resilience planning and implementation. **Application deadline: 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

4) Conservation Innovation Grants (USDA Natural Resources Conservation Service) <https://www.nrcs.usda.gov/>

Tribal Climate Resilience Liaisons- North Central, Midwest, Northeast/ Southeast CASC Regions

Department of the Interior
The Secretary of the Interior (Secretary), through Bureau of Indian Affairs' Office of Trust Services (BIA), hereby solicits proposals from tribal non-profit, non-governmental organizations, and tribally controlled colleges or universities, to enter into a cooperative agreement for the support of tribal climate science needs through the hiring of a tribal climate resilience liaison in the U.S. Department of the Interior's (DOI) Climate Adaptation Science Centers (CASCs). **Application deadline: Dec 17, 2021**

Communities Local Energy Action Program Pilot - Competitive Technical Assistance Opportunity

The Communities LEAP Pilot Initiative of the U.S. Department of Energy (DOE) seeks to help communities access the economic

and environmental benefits of clean energy and clean energy manufacturing. The pilot initiative aims to facilitate sustained community-wide economic empowerment through clean energy, improve local environmental conditions, and open the way for other benefits primarily through DOE's clean energy deployment work. This opportunity is specifically open to low income, energy-burdened communities that are also experiencing either direct environmental justice impacts, or direct economic impacts from a shift away from historical reliance on fossil fuels. **Application deadline: December 17, 2021**

National Forest Foundation 2021 Matching Awards Program

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. Informational Webinar: December 3, 2021. The program supports action-oriented projects that enhance outdoor experiences, forest and ecosystem health, and engage local communities in caring for their public lands. **Application deadline: January 12, 2021**

Wood Innovation Program: Forest Service Grant Opportunities

Wood Innovations Grants are making a difference across the country. From funding for advanced computer numerical control systems that can produce state-of-the-art prefabricated mass timber building materials, to renewable energy systems that run on wood chips, these grants are helping address critical issues like climate change and helping sustain local economies. **Application deadline: January 19, 2021**

2021 EarthLab Innovation Grants Request for Proposals

EarthLab is looking to fund projects that demonstrate co-creation and partnership between community partners and University of Washington researchers, interdisciplinary collaboration, action at the intersection of climate (both mitigation and adaptation) & social justice, and the potential for growth of the project or partnership. The Innovation

Grants Program has \$300,000 available for the current funding cycle, with a maximum budget request of \$75,000 per project. **Letter of intent due: January 27, 2022**

FY 2021 Building Resilient Infrastructure and Communities (BRIC) and Flood Mitigation Assistance Notice of Funding

FEMA released the BRIC and FMA Notices of Funding Opportunities (NOFOs) on Aug. 9, 2021. The NOFOs are posted on grants.gov and provide detailed program information and other grant application and administration requirements. The application period to apply for fiscal year 2021 (FY 2021) will open on Sept. 30, 2021. **Application deadline: January 28, 2022**

Emergency Coastal Resilience Fund Request for Proposal

The National Fish and Wildlife Foundation (NFWF), in coordination with the National Oceanic and Atmospheric Administration (NOAA), announces the 2021 Emergency Coastal Resilience Fund (ECRF) to support projects that increase the resilience of coastal communities impacted by hurricanes and wildfires in 2020 and 2021. The fund supports conservation projects that create and restore natural systems to help protect coastal communities from the impacts of coastal storms, floods, sea-level rise, inundation, coastal erosion, wildfires and associated landslides/debris flows, and enable communities to recover more quickly from these events, all while improving habitats for fish and wildlife species. **Application deadline: February 3, 2022**

Inclusive Energy Innovation Prize

This prize fits into President Biden's Justice40 Initiative, which aims to deliver 40% of climate investment benefits to disadvantaged communities and inform equitable research, development, and deployment within DOE. Specifically, this prize seeks to enable and enhance business and technology incubation, acceleration, and other community-based and university-based entrepreneurship and innovation in climate and clean energy technologies. Up to 10 organizations will share a total prize pool of up to \$2.5 million. **Application deadline: February 25, 2022**

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>

December 2021

Workshop: December 6, 9:30am MT

[Virtual Tribal Community-Scale Solar, Solutions for Climate and Community Resilience](#)

For tribal nations seeking to build - or expand - solar energy development within their nations at the community, facility, and/or residential scale, join this lively dialogue-based workshop with experts and practitioners and opportunities for one-on-one follow-up consulting. We will knowledge share, and wherever possible have some fun doing it. Solar! storage! islanding microgrids! resilience! climate solutions! reliability! and more: please join.

Webinar: December 8, 9 am PT
[Tribal Energy Webinar Series: Utility-Scale Solar Development on Tribal Lands](#)

Hosted by the U.S. Department of Energy (DOE) Office of Indian Energy, the 2021 Tribal Energy Webinar Series will focus on how tribes can improve community resilience, foster economic development, and support environmental stewardship. Developing utility-scale solar photovoltaic (PV) projects can be a lengthy and complex process—and to date, only a few utility-scale projects have been built on tribal lands. This webinar will explore what goes into utility-scale solar development, including lessons learned from tribes who have successfully completed these larger-scale projects.

Virtual Conference: December 8-9, 2-5pm MT
[Tribal GIS Virtual Education Symposium](#)

The GIS education symposium will provide an opportunity for tribal educators, faculty, administrators, and students to meet, learn and share about research, curriculum, issues, and trends through workshops, presentations, and discussion. The NTGISC Education workgroup is now accepting papers, reports, abstracts, and studies. Geospatial topic areas, but not limited to: Higher Education, Adult Education, Indigenous Education, Curriculum, Research and Development, Distance Education, Technology, Teacher Education.

Webinar: December 14

[Decolonizing Ecology: 5 Steps to More Inclusive and Ethical Research Practice](#)

Ecological research helps us understand connections between people, species and landscapes and the actions we need to take to prepare and adapt to a changing climate. However, since Western approaches to understanding the world have shaped the field of ecology, it is embedded in a colonial legacy that has led to dispossession, racism, extraction and power imbalances that continue today. By acknowledging this history and working to undo the ways of thinking that have led to such harm, we have the opportunity to create a more ethical approach to ecology that recognizes diverse peoples and knowledges.

January 2022

Engagement Sessions: January 11 - February 9
[National Climate Assessment 5 Engagement Workshops](#)

Join the authors of various chapters for the NCA5 for virtual workshops to share your thoughts on different topic areas. Workshops are free and open to the public. The information gathered will help authors decide which topics to cover in their chapter of NCA5.

Virtual Conference: January 12-13
[Bridging the Gap: Connecting Native Plant Materials Development with Successful Habitat Restoration](#)

Planting a diversity of native species provides ecosystem services for pollinators, wildlife, and people, as well as increasing ecosystem resilience in the face of climate change and invasive species. Lack of quantity and quality of native plant materials, both seeds and nursery stock, has significantly hindered landscape recovery efforts. To address this need, native seed partnerships are collaborating to expand native plant materials programs in many regions of the country, including the Southwest and Pacific Northwest. This conference will bring together native plant producers, restoration ecologists and practitioners, and seed researchers to discuss progress and challenges related to increasing the supply of ecologically-appropriate native seed.

Symposium: January 18-20, Sulphur, OK

[South Central CASC: Culturally Significant Plants Symposium](#)

The South Central CASC and Chickasaw Nation will be hosting an in-person event to discuss how climate change affects culturally significant plants. This event is open to the south-central region of Oklahoma, Louisiana, Texas, and New Mexico. Researchers and artisans with experience in the field will be present to help raise awareness on these issues. It will take place at Chickasaw Retreat and Conference Center. Contact April. Taylor@Chickasaw.net for further questions.

March 2022

Symposium: March 29-31, Gulf Shores, Alabama
[Southeast Climate Adaptation Science Center Regional Science Symposium](#)

This event is intended for researchers working in the southeastern U.S. on climate impacts and adaptation for fish, wildlife, habitat, and cultural resources.

May 2022

Conference: May 2-5, Tulsa, OK
[22nd National Tribal Forum on Air Quality \(NTFAQ\)](#)

Hosted by the Muscogee Nation, a national conversation on how Tribes are implementing the Clean Air Act in partnership with the US EPA to improve air quality for our communities. NTFAQ is a cooperative endeavor co-sponsored by the Institute for Tribal Environmental Professionals (ITEP) and the National Tribal Air Association (NTAA) with funding made available by the US EPA and the generous donations of sponsors.

Postponed to May 2022
[Conference. Location TBD](#)
[Southwestern Tribal Climate Change Summit](#)

The 2022 Southwestern Tribal Climate Change 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.