



NORTHERN ARIZONA  
UNIVERSITY



Institute for Tribal Environmental Professionals

## ***Tribal Climate Change Newsletter***

### ***November 2017***

*Welcome to ITEP's Tribal Climate Change Newsletter. This monthly newsletter provides news items, resources, announcements about funding opportunities, conferences, and training, and other information relevant to tribal climate change issues.*

### ***ITEP's Climate Change Program News***



*Aroostook Band of Micmacs: Micmac Farms: Presque Isle, Maine  
Photo credit: Nikki Cooley*

Ya'at'eeh everyone!

Happy Winter! As we go into the end of the year and the holiday season, we want to ensure we are sending out a few reminders.

We are in the process of planning and confirming our 2018 CC Adaptation Planning courses, and as soon as we know, we will send out notification. In addition, keep your eye out for our upcoming monthly webinars including the one coming up on December 13 and the topic is "Climate Change and Air Quality."

ITEP's Environmental Education Outreach Program is looking for host sites for 2018 summer internship programs. For more information visit:  
<http://www7.nau.edu/itep/main/eeop/Internships/>

With that, we wish you well and look forward to seeing you soon!

-Nikki, Karen, Colleen & Adrian

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#### ***Newsletter***

To subscribe or unsubscribe to this newsletter, please go to [www7.nau.edu/itep/main/listsrv/](http://www7.nau.edu/itep/main/listsrv/) where you can manage your Tribes & Climate Change Listserv and other ITEP Listserv subscriptions.

#### ***Tribes & Climate Change website***

For more on tribes and climate change issues, visit ITEP's Tribes & Climate Change website at [www7.nau.edu/itep/main/tcc/](http://www7.nau.edu/itep/main/tcc/)

### **Trump is Going to Destroy of the Country's Most Beautiful National Monuments**

Conservationists predict Trump intends to shrink some existing monuments to open up lands for new mining and drilling operations, a potential move that Friends of the Earth's Ben Schreiber described as a "blatant handouts to the oil and gas industry." Any such land would still be federally managed, but losing monument status would strip it of national park-like protections, which forbid new leases for grazing, oil, gas, and mining. © 2017 Mother Jones and the Foundation for National Progress, 11/30/2017.

<http://www.motherjones.com/environment/2017/11/trump-is-going-to-destroy-2-of-the-countrys-most-beautiful-national-monuments/>

### **Why Lost Ice Means Lost Hope for an Inuit Village**

The only road to Rigolet, Labrador, is the ice. But climate change is making that ice vanish, and the mental health impact runs deep. Rigolet, a town on Canada's eastern edge, has no roads leading in or out. Lakes, river and streams, if they freeze over, become what the town's 300 residents call their "highway" – a lifeline to nearby towns and places to fish, trap and hunt. But as the climate has warmed, these ice roads have become unreliable, breeding isolation, and some studies suggest, elevated mental stress. © 2017 The New York Times Company, 11/25/2017.

<https://www.nytimes.com/interactive/2017/11/25/climate/arctic-climate-change.html>

### **Interior Watchdog Highlights Climate Challenges as Trump Officials Suppress Research**

Climate change is among the "most significant management and performance challenges" facing the U.S. Department of the Interior (DOI), according to a new report issued by the department's inspector general.

Communities in the Southwest, with large Native American populations, are facing prolonged drought, extreme floods, and loss of traditional food sources. Similar problems affect communities in the Northwest, and several have sought to relocate because of these effects, according to the report. © 2017 ThinkProgress, 11/22/2017.

<https://thinkprogress.org/interior-watchdog-highlights-climate-change-914734abeaf9/>

### **A Native Community Preserves its Food Traditions**

Members of the Tolowa Dee-ni' Nation are keeping traditional foodways alive in the face of climate change and human impact. Despite the more than 164-year assault on the North Coast's native peoples and their indigenous foodways—from outright persecution and slaughter in the 19th Century to policies today that restrict indigenous rights—as well as a slew of acute environmental transformations, the Tolowa Dee-ni', which currently include 1,609 tribal members, continue to practice their traditions today. © 2017 Civil Eats, 11/21/2017

<https://civileats.com/2017/11/21/a-native-community-preserves-its-food-traditions/>

### **A Civil Rights 'Emergency': Justice, Clean Air and Water in the Age of Trump**

The Trump administration's dismantling of environmental regulations has intensified a growing rights battle over the deadly burden of pollution on minorities and low-income people. Black, Latino and disadvantaged people have long been disproportionately afflicted by toxins from industrial plants, cars, hazardous housing conditions and other sources. © 2017 Guardian News and Media Limited. 11/20/17.

<https://www.theguardian.com/us-news/2017/nov/20/environmental-justice-in-the-age-of-trump>

### **Will Washington State Pass the Nation's First Carbon Tax?**

Last November, some environmentalists in Washington state went to the polls hoping voters would back an initiative creating the nation's first tax on carbon pollution. It's early yet, but there are already signs of another split: Native American tribes who feel the Alliance's new framework does not go far enough and that their input wasn't considered warned in September that they may offer a competing carbon tax ballot initiative. © 2017 Mother Jones and the Foundation for National Progress, 11/16/2017.

<http://www.motherjones.com/politics/2017/11/will-washington-state-pass-the-nations-first-carbon-tax/>

### **Indigenous Groups Win Greater Climate Recognition at Bonn Summit**

World governments have acknowledged for the first time that 'first people' can play a leadership role in protecting forests and limiting global warming. © 2017 Guardian News and Media Limited., 11/15/2017.

<https://www.theguardian.com/environment/2017/nov/15/indigenous-groups-win-greater-climate-recognition-at-bonn-summit>

### **Here's What Climate Change is Doing to the West**

Wildfires, ocean acidification and droughts are merely symptoms. The complexity of climate change means it's hard to trace simple lines from cause to effect in daily life, much less plan for the future. © 2017 Mother Jones and the Foundation for National Progress, 11/14/2017.

<http://www.motherjones.com/environment/2017/11/heres-what-climate-change-is-doing-to-the-west/>

### **Climate Change is Driving Residents of Kivalina from Their Homes**

For the Inupiaq town, relocating is not a matter of if but when. Erosion has long been a problem. According to a study by the National Oceanic and Atmospheric Administration, the island went from 55 acres of livable land in 1954 to 27 acres in 2003. But during the past decade it has lost over 70 feet of its coastline to storm-related erosion alone. © 2017 Sierra Club, 11/12/2017.

<https://www.sierraclub.org/sierra/climate-change-driving-residents-kivalina-their-homes>

### **Deer Isle Native Among Those Recognized for Radio Project**

Isaac Kestenbaum was recently recognized for a collaborative project he created and produced, along with wife Josephine Holtzman, to tell the story of how climate change is and will affect rural communities in Alaska. © 2017 Penobscot Bay Press, 11/09/2017.

<http://islandadvantages.com/news/2017/nov/9/deer-isle-native-among-those-recognized-for-radio/#.WiHWObQ-dwc>

### **As COP23 Talks Start, Inuit Org Supports Call for Action, Solidarity**

This call was shared by Inuit Circumpolar Council President Okalik Eegeesiak at an Arctic Council-hosted side event on the global implications of a rapidly changing Arctic, held shortly after negotiators from more than 180 countries began their two-week-long meeting. Action in dealing with climate change must include Indigenous Arctic residents, Okalik said. © 1995-2017 Nortext Publishing Corp., 11/06/2017.

[http://www.nunatsiaqonline.ca/stories/article/65674as\\_cop23\\_talks\\_start\\_inuit\\_org\\_supports\\_call\\_for\\_action\\_solidarity/](http://www.nunatsiaqonline.ca/stories/article/65674as_cop23_talks_start_inuit_org_supports_call_for_action_solidarity/)

### **Mississippi River Delta Native Americans Face Loss of Land and Homes to Climate Change**

The home of the Biloxi-Chitimacha-Choctaw Indians is shrinking. Dulac, Louisiana, 17 miles from the coast, has become a group of land dots in the water as sea levels rise to create a Swiss-cheese topography. According to Barry Yeoman at *The Fern*, "The U.S. Geological Survey said the larger Terrebonne Basin lost almost 30 percent of its land from 1932 to 2010." The reason for the change is apparent: Humans have rerouted the Mississippi River, carved canals in the delta, and drilled for oil and gas off the coast of Louisiana. Where there were fields and forests when the senior tribe members were children, there is now water. They must use boats where they used to run. Their heritage land, including their dead ancestors, has sunk. The area floods regularly, and the coffins have been floating away. © 2017 Nonprofit Quarterly, 11/06/2017.

<https://nonprofitquarterly.org/2017/11/06/mississippi-river-delta-native-americans-face-loss-land-homes-climate-change/>

### **NOAA Partners with Northern Plains Tribes to Improve Drought Resilience**

Over the past several years, the High Plains Regional Climate Center has been working with Native American tribes in the region to help address their on-reservation climate and drought vulnerabilities. In the Missouri River Basin, there are 28 tribes with diverse set of climate-related challenges. © 2011, WeatherNation, 11/03/2017.

<http://www.weathernationtv.com/news/noaa-partners-northern-plains-tribes-improve-drought-resilience/>

### **Alaska Creating Team to Recommend Climate Change Response**

Alaska Gov. Bill Walker is creating a special team to recommend ways to address climate change, saying Alaska, with its vast coastlines, is on the front lines. © 2017 Alpha Media LLC., 11/01/2017

<http://www.kfqd.com/alaska-creating-team-recommend-climate-change-response/>

### **As Climate Change Threatens a California's Tribe's 'Jerusalem and Mecca,' a Model Deal Could Save the Day**

Despite its cultural and spiritual significance to the tribe, and its importance to the survival of anadromous fish returning to the Klamath River, the Blue Creek watershed is far from pristine. The headwaters enjoy protection as a federal wilderness area, but in the lower reaches logging, road construction and grazing have incised the channel. Feral cows forage on the banks and stray hatchery fish breed with wild salmon. © 2017 The Sacramento Bee, 11/01/2017.

<http://www.sacbee.com/opinion/california-forum/article181986916.html>

### **Anchorage is Confronting More Rapid Climate Change, but Has Few Dollars to Address It**

Alaska has warmed more than twice as fast as rest of the country – winters in Anchorage are 6 degrees warmer than they were 70 years ago. And that's impacting life there in many ways, from commerce to recreation to the city's ability to take in climate migrants. © 2017 PRI.org, 10/03/2017.

<https://www.pri.org/stories/2017-10-03/anchorage-confronting-more-rapid-climate-change-has-few-dollars-address-it>

### **Ex-FEMA Director: Rebuilding Puerto Rico Requires Acknowledging Climate Change**

Obama instructed FEMA to consider climate change in responding Superstorm Sandy. The Trump administration's response has been different. © 2017 Mother Jones and the Foundation for National Progress, 10/03/2017.

<http://www.motherjones.com/politics/2017/10/ex-fema-director-rebuilding-puerto-rico-requires-acknowledging-climate-change/#>

## Resources

### **Carbon Pricing: A Critical Perspective for Community Resistance**

This publication will help communities and organizations articulate crucial points to resist carbon pricing and climate change. © Indigenous Environmental Network and Climate Justice. 11/14/17.

<http://www.ienearth.org/cop23/>

### **The NOAA Annual Greenhouse Gas Index (AGGI)**

The index was designed to enhance the connection between scientists and society by providing a normalized standard that can be easily understood and followed. The warming influence of long-lived is well understood by scientists and has been reported by NOAA through a range of national and international assessments. Nevertheless, the language of scientists often eludes policy makers, educators, and the general public. This index is designed to help bridge that gap. The AGGI provides a way for this warming influence to be presented as a simple index. © NOAA: Earth System Research Laboratory Global Monitoring Division. Spring 2017.

<https://www.esrl.noaa.gov/gmd/aggi/aggi.html>

### **Article: Sea-Level Rise Predicted to Threaten More Than 13,000 Archaeological Sites in Southeastern US**

Sea-level rise may impact vast numbers of archaeological and historic sites, cemeteries, and landscapes on the Atlantic and Gulf coasts of the southeastern United States, according to a new study. © ScienceDaily, 11/29/2017.

<https://www.sciencedaily.com/releases/2017/11/171129143405.htm>

## Other Items of Interest

### **Audio: How Cedar Rapids, Iowa, is Adapting to Climate Change's Effects**

In 2008, Cedar Rapids, Iowa, was devastated by its worst flood ever. The Cedar River rose eleven feet higher than it ever had before. So the city's making changes. It's building a levee and flood wall system around the sewage treatment plant. 1min 30sec. © 2017 Yale Climate Connections, 10/25/2017.

<http://thehill.com/blogs/blog-briefing-room/349785-former-fema-director-its-not-about-climate-change-its-about-climate>

### **California Birds Nesting a Week Earlier Than They Did a Century Ago**

Many birds are adjusting their life styles to breed 5-12 days earlier to avoid warming that has occurred since the early 1900s, an ongoing survey of California birds and comparison with century-old data shows. This strategy, combined with the trend of other birds to move northward in range or upward in elevation, allows adaptation to climate change, though eventually the cool window for breeding may become too short for some species. © ScienceDaily, 11/13/2017.

<https://www.sciencedaily.com/releases/2017/11/171113153818.htm>

### **"Climate Change" and "Global Warming" are Disappearing from Government Websites**

Ever since January, the words "climate change" have been disappearing from government websites. It's happened not just at the Environmental Protection Agency but also at the Department of Energy, the Department of Agriculture, and the Department of Health and Human Services. © 2017 Vox Media, Inc., 11/09/2017.

<https://www.vox.com/energy-and-environment/2017/11/9/16619120/trump-administration-removing-climate-change-epa-online-website>

### **EPA Revises the Social Cost of a Potent Greenhouse Gas**

The Trump administration's move is part of a broad effort to downplay the impacts of climate change. The Trump Administration is tweaking how it measures the costs of emitting a potent greenhouse gas, a move that will have major impacts for climate rules. Known as the social cost of methane, this obscure metric is a younger counterpart to the better-known social cost of carbon. © 2017 Scientific American, 11/20/2017.

<https://www.scientificamerican.com/article/epa-revises-the-social-cost-of-a-potent-greenhouse-gas/>

### **Job Announcement: Research Associate/Program Coordinator for Landscape Conservation Design**

Candidate will be responsible for the administration and technical support of a large grant project initiated to establish a Landscape Conservation Design (LCD) for the "Dos Rios" of the Chihuahuan Desert Borderlands. Open until filled.

<https://sulross.peopleadmin.com/postings/3661>

### **Audio: Living Planet: Calls for Climate Justice**

All around the world indigenous communities are being hit hard by the impacts of climate change. Yet indigenous peoples and their traditional knowledge can play a crucial role in the battle against climate change. The Paris Accord includes indigenous peoples as a key element to increasing climate protection. DW talks to Heather Milton Lightning from the Indigenous Climate Action group in Canada. 8min 10secs. 09/11/17.

<http://www.dw.com/en/living-planet-calls-for-climate-justice/av-41314273>

### **When Jacksonville Floods, the Rich Don't Worry; the Poor Fight to Get Through**

Hurricane Irma smashed into Jacksonville this fall, and the storm's impact highlighted one of the worst-kept secrets in urban real estate: Floodplains in U.S. cities with residential properties are almost always occupied by the poorest residents of those areas, said Mechele Dickerson, a University of Texas, Austin, bankruptcy law professor and an expert in real estate equity issues. © 2017 Mother Jones and the Foundation for National Progress, 11/18/2017.

<http://www.motherjones.com/environment/2017/11/climatedesk-when-jacksonville-floods-the-rich-dont-worry-the-poor-fight-to-get-through/>

### **Research Opportunity: Landscapes of Deep Time in the Red Earth of France-Research Training in Paleoclimate (NSF)**

This program is open to current undergraduates in geoscience (or allied) disciplines, and is particularly focused on recruiting undergraduates from under-represented groups. Applicants from students of Native American heritage, and from those who are first-generation college students are encouraged to apply. **Deadline: 03/01/17.**

<http://franceires.isoreghan.oucreate.com/Research/>

## ***Funding Opportunities***

NOTE: More Funding Opportunities can be found at the Tribes & Climate Change website:

<http://www7.nau.edu/itep/main/tcc/Resources/funding>. Also, see the Tribal Climate Change Guide maintained by the Pacific Northwest Tribal Climate Change Project at the Univ. of Oregon: <http://tribalclimateguide.uoregon.edu/>

### **Great Lakes Fish and Wildlife Restoration Act (FWS)**

The purpose of the Great Lakes Fish and Wildlife Restoration Act (GLFWRA) is to provide assistance to States, Indian Tribes, and other interested entities to encourage cooperative conservation, restoration and management of the fish and wildlife resources and their habitats in the Great Lakes Basin. Supported in part by the Great Lakes Restoration Initiative, we expect approximately \$1.2 million to support projects this fiscal year. Funding opportunity #: F18AS00012. Eligibility includes federally recognized Native American tribal governments and organizers (other than Federally recognized tribal governments). **Deadline: 01/08/18.**

<https://www.grants.gov/web/grants/search-grants.html>

### **Native American Affairs: Technical Assistance to Tribes for FY18 (BOR)**

The objective of this Funding Opportunity Announcement (FOA) is to invite federally recognized Indian tribes and tribal organizations to submit proposals for financial assistance, in the form of grants and cooperative agreements, for TAP projects and activities that develop, manage, and protect tribal water and related resources. Funding opportunity #: BOR-DO-18-F001. Eligibility includes federally recognized Native American tribal governments and organizers (other than Federally recognized tribal governments). **Deadline: 01/17/2018.**

<https://www.grants.gov/web/grants/search-grants.html>

### **Southwest Border Resource Protection Program (NPS)**

The Southwest Border Resource Protection Program (SWBRPP), located within the National Park Service (NPS) Intermountain Regional Office in Denver, provides financial assistance to NPS units, as well as educational institutions, nonprofit organizations, tribes, and local and state agencies to improve resource stewardship, achieve international cooperation, provide meaningful interpretation and conduct scientific research, which will lead to increased appreciation and understanding of our shared natural and cultural heritage along our international border with Mexico. Funding opportunity #: P18AS00019. Eligibility includes federally recognized Native American tribal governments and organizers (other than Federally recognized tribal governments). **Deadline: 01/26/2018.**

<https://www.grants.gov/web/grants/search-grants.html>

### **WaterSMART Cooperative Watershed Management Program Phase: FY18 (BOR)**

This FOA is seeking proposals for activities to develop a watershed group, complete watershed restoration planning activities, and to design watershed management projects. This FOA is for Phase I of the Cooperative Watershed Management Program. Funding opportunity #: BOR-DO-18-F005. Eligibility includes Indian tribes. **Deadline: 01/31/2018.**

<https://www.grants.gov/web/grants/view-opportunity.html?oppld=295312>

### **FY18 Coral Reef Conservation Program, Domestic Coral Reef Conservation Grants (DOC)**

These awards are intended to support coral reef conservation projects in shallow water coral reef ecosystems, including reefs at mesophotic depths, in American Samoa, the Commonwealth of the Northern Mariana Islands, Florida, Guam, Hawaii, Puerto Rico, the U.S. Virgin Islands, and coral-dominated banks in the U.S. portions of the Gulf of Mexico. Projects may be proposed in the Northwestern Hawaiian Islands and the U.S. Pacific Remote Island Areas, but these locations are



not considered geographic priorities under this announcement. Proposals submitted to this competition must address at least one of the following four categories: 1) Fishing Impacts; 2) Land-Based Sources of Pollution; 3) Climate Change; and 4) Local and Emerging Management Issues. Funding opportunity #: NOAA-NOS-OCM-2018-2005425. Eligibility includes Indian tribal government agencies. **Deadline: 02/01/18.**  
<https://www.grants.gov/web/grants/search-grants.html>

**Environmental Literacy Grants: Supporting the Education of K-12 Students and the Public for Community Resilience (DOC)**

The goal of this Federal Funding Opportunity (FFO) is to support the education of K-12 students and the public so they are knowledgeable of the ways in which their community can become more resilient to extreme weather events and/or other environmental hazards, and become involved in achieving that resilience. Many U.S. communities are increasingly contending with issues related to preventing, withstanding, and recovering from disruptions caused by extreme weather and other environmental hazards (U.S. DOC FY2014-FY2018 Strategic Plan). These hazards include but are not limited to severe storms, tornadoes, hurricanes, flooding, heavy precipitation events, persistent drought, heat waves, increased global temperatures, acidification of the ocean, and sea level rise. Funding opportunity #: NOAA-SEC-OED-2018-2005455. Eligibility includes Indian tribal governments. **Deadline: 04/06/2018.**  
<https://www.grants.gov/web/grants/search-grants.html>

**Paleo Perspectives on Climate Change (NSF)**

The goal of research funded under the interdisciplinary P2C2 solicitation is to utilize key geological, chemical, atmospheric (gas in ice cores), and biological records of climate system variability to provide insights into the mechanisms and rate of change that characterized Earth's past climate variability, the sensitivity of Earth's climate system to changes in forcing, and the response of key components of the Earth system to these changes. Funding opportunity #: 17-582. Eligibility is unrestricted. **Deadline: 10/22/18.**  
<https://www.grants.gov/web/grants/search-grants.html>

## Upcoming Events

**NOTE:** More Upcoming Events can be found at the Tribes & Climate Change website:

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

### December 2017

#### **Webinar: Using Narrative Stories to Understand Traditional Ecological Knowledge in the Great Basin**

December 06, 2:00-3:00pm (MST). Offered by the Great Basin LCC. This pilot project uses a method of naïve interviewing with tribal youths to gather narrative “micro stories” from elders and key tribal members and then answering a series of carefully constructed questions that allow participants to apply context and meaning to their stories. These questions can then be analyzed quantitatively using correlational statistics to identify key themes and patterns across the narrative dataset. Webinar speaker is Tamara Wall, Desert Research Institute.

<http://greatbasinfirescience.org/events-webinars/2017/12/6/using-narrative-stories-to-understand-traditional-ecological-knowledge-in-the-great-basin>

#### **Webinar: Climate Change and Cutthroat Trout Conservation in the Southern Rocky Mountains**

December 07, 12:00-1:00pm (MST). Offered by the Southern Rockies LCC. Dr. James Roberts is a fish biologist with the USGS who has broad research expertise and investigates the ecological consequences of environmental stressors like climate change and eutrophication for aquatic systems and specifically fish populations. Currently, he is investigating the potential effects climate change may have on the persistence of cutthroat trout (*Oncorhynchus clarkii* spp.) in stream and lake habitats throughout the Southern Rocky Mountains. James' other current research activities include native fish conservation, contaminants in Upper Colorado River native fish, mountain lake limnology, and bio-monitoring of Rocky Mountain transition zone streams. On the day of the webinar, Log-in (click or copy and paste into browser):

<https://mmancusa.webex.com/mmancusa/j.php?MTID=m0ef993275b6994da9648e07ab6cc7517>

Dial: 1-888-834-5486; Access code: 146 452 93

#### **Conference: Cultures Under Water: Climate Impacts on Tribal Cultural Heritage**

December 07-08, Tempe, AZ. Offered by the ASU Sandra Day O'Connor College of Law (Indian Legal Program). The goal is to share knowledge and resources with tribal representatives to respond to threats to cultural heritage by addressing: Is cultural heritage a human right, and why is tribal cultural heritage important? How does climate change impact tribal cultural heritage? How can tribal communities maintain cultural heritage in the face of changing climate risks? Attendees will participate in sessions that focus on identifying obstacles and proposing solutions to these challenges.

[http://conferences.asucollegeoflaw.com/climate-impacts/?j=889927&e=wendywang%40asu.edu&l=18829\\_HTML&u=30244601&mid=7201483&jb=0&utm\\_campaign=SFMC\\_ILP%20Climate%20Impacts%20Conference\\_Sandra%20Day%20O%E2%80%99Connor%20College%20of%20Law&utm\\_medium=email](http://conferences.asucollegeoflaw.com/climate-impacts/?j=889927&e=wendywang%40asu.edu&l=18829_HTML&u=30244601&mid=7201483&jb=0&utm_campaign=SFMC_ILP%20Climate%20Impacts%20Conference_Sandra%20Day%20O%E2%80%99Connor%20College%20of%20Law&utm_medium=email)

#### **ITEP Webinar: Climate Change and Air Quality**

December 13, 11:00-12:15pm (MST). ITEP is honored to have three speakers who work within the field of air quality at the local and national levels. Neal Fann, with the U.S. Environmental Protection Agency, was the lead author for and will discuss the findings of the Air Quality Impacts chapter of a U.S. Global Change Research Program report, *The Impacts of Climate Change on Human Health in the United States*. Althea Walker, with the Gila River Indian Community, will provide insight into their climate change adaptation planning efforts, in particular with respect to air quality. Finally, Dr. Pat Ellsworth, with ITEP, will provide a brief overview of ITEP's upcoming Air Quality Planning and Wildland Smoke course, which will include some potential adaptation strategies.

[http://www7.nau.edu/itep/main/tcc/Training/Webinars\\_Schedule](http://www7.nau.edu/itep/main/tcc/Training/Webinars_Schedule)

#### **Conference: Tribes & First Nations Climate Summit**

December 13-14, Tulalip, WA. Offered by the Tribes and First Nations for Tribal Leadership. Tribes and First Nations in the Pacific Northwest have made great progress in observing and documenting environmental change on their homelands, but climate change is increasing at a pace that challenges important ways of life. Tribes and First Nations across the region are coming together to learn from past work and to discuss how to continue climate change studies to provide the support communities need to adapt and thrive for generations to come.

<http://atnitribes.org/climatechange/2017/11/21/tribes-first-nations-climate-summit/>

#### **Conference: 2017 Forest Ecosystem Monitoring Cooperative Conference**

December 15, Burlington, VT. Offered by the FEMC. This year's conference promises to deliver a dynamic array of talks and workshops designed to help collaborators build capacity to communicate and market their work to a broader stakeholder audience. This conference will help participants develop messages and share information in such a way that the public sees the value of forest ecosystem monitoring and research in our region and its relevance to their lives.

<https://www.uvm.edu/femc/cooperative/conference/2017/agenda>

## **January 2018**

### **Training: Climate Academy**

January 10-March 21. This 8-week online course is designed to cover the fundamentals of climate science, provide an overview of tools and resources for climate adaptation, and increase climate literacy and communication skills. The course is designed to encourage networking among conservation professionals engaged in the management of fish, wildlife, habitat and cultural resources and provides participants an opportunity to interact with experts as they address case studies across multiple habitat types.

<https://training.fws.gov/nctcweb/catalog/CourseDetail.aspx?CourseCodeLong=FWS-ALC3193>

### **Training: Forest Adaptation Planning and Practices Online Training**

January 15 – March 02. Offered by Northern Institute of Applied Climate Science. The popular Forest Adaptation Planning and Practices training will be available as an online, seven-week course for natural resource professionals working in New England and New York. Participants will use the [Adaptation Workbook](#) to create their own adaptation plans.

<https://forestadaptation.org/node/646>

## **February 2018**

### **Conference: Alaska Forum on the Environment**

February 12-16, Anchorage, AK. In the past five years, AFE has offered technical sessions on a diversity of environmental issues such as; energy issues, alternative energy sources for rural villages, subsistence hunting, fishing, and gathering on federal lands, biological studies, bioterrorism, effects of climate change, Alaska Native Claims Settlement Act, military environmental restoration, and tribal and federal government-to-government policies.

<https://www.cvent.com/events/alaska-forum-on-the-environment-2018/registration-8e7d2f0b460a41c99d382a80775734d6.aspx?fqp=true>

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