



*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 Tribal Climate Change Newsletter**

**October 2018**



San Francisco Peaks, Flagstaff, AZ  
Photo Credit: Leanna Begay

Hello Friends!

After our recent snowfall, the Peaks in Flagstaff are now displaying the colors of fall foliage, we *Welcome Fall!*

We recently welcomed two new cohorts to the Facilitated Cohort Climate Change Adaptation Planning course. The largest group is the Central U.S. cohort, representing 8 tribes. We've had several great presenters sharing many valuable resources and tools during the first cohort classes thus far. These will be included online when the Mind Map is made available, and we are putting final touches on it before debuting it. Stay tuned!

We'd also like to introduce and welcome the newest member to the Climate Change team. Ms. Bobbi Ann Cooley is our new student worker who is majoring in Parks and Recreation here at Northern Arizona University.

Our program strives to provide you the necessary and latest resources on climate change and resilience adaptation planning, and related environmental/cultural resources. One of the (free) resources we highly recommend you take advantage of is the Tribal Resilience Liaisons that are regionally stationed and are willing to help you and your tribe/community with climate change and resilience planning. Starting with the next newsletter, we will be featuring one liaison each month so you can learn more about what they do, what they look like and where

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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/)

they are located. For now, please look to the “Resources” section of the newsletter and learn more. Some of these liaisons have attended some of our climate change adaptation planning workshops in Alaska and Mississippi.

Until next time, stay warm and have a great day!

-Leanna, Nikki, Karen, Colleen, & Bobbi Ann

## *In The News*

### **Climate Change: US Desert Areas to Become Even Drier**

- 350,000 years of climate history hidden in Devils Hole cave. © Science Daily, 10/24/2018. <https://www.sciencedaily.com/releases/2018/10/181024142621.htm>

### **There's a Perfectly Rectangular Iceberg Floating in Antarctica. Here's How it Got That Way.**

- A college-campus-size iceberg spotted on the Antarctic Peninsula margins is upending public expectations of classic Titanic-esque icebergs, with sharp spires jutting from the ocean surface. © The Washington Post, 10/23/2018. [https://www.washingtonpost.com/science/2018/10/24/theres-perfectly-rectangular-iceberg-floating-antarctica-heres-how-it-got-that-way/?utm\\_term=.a8341031255a](https://www.washingtonpost.com/science/2018/10/24/theres-perfectly-rectangular-iceberg-floating-antarctica-heres-how-it-got-that-way/?utm_term=.a8341031255a)

### **Chief Justice Halts Discovery, Trial in Youth Climate Lawsuit**

- Supreme Court Chief Justice John Roberts on Friday temporarily halted discovery and the upcoming trial of a case brought by a group of young Americans claiming that the federal government needs to do more to confront climate change. © The Hill, 10/19/18. <https://thehill.com/regulation/court-battles/412350-chief-justice-roberts-halts-discovery-in-youth-climate-lawsuit>

### **California and Climate Change: Here's What to Expect**

- The state's newly-released climate change assessment offers some sobering clues. © Yale Climate Connections, 10/18/18. <https://www.yaleclimateconnections.org/2018/10/climate-change-impacts-in-california-by-2100/>

### **Latest: Yurok Tribe Cancels Salmon Season on Klamath River**

- For the third year in a row, the tribal citizens won't have commercial fishing. © High Country News, 10/16/18. [https://www.hcn.org/issues/50.18/latest-tribe-cancels-salmon-season-on-klamath-river?utm\\_source=wc1&utm\\_medium=email](https://www.hcn.org/issues/50.18/latest-tribe-cancels-salmon-season-on-klamath-river?utm_source=wc1&utm_medium=email)

### **Can a California Town Move Back From the Sea?**

- Imperial Beach considers the unthinkable: a retreat from nature. © High Country News, 10/15/18. [https://www.hcn.org/issues/50.17/climate-change-can-a-california-town-move-back-from-the-sea-imperial-beach?utm\\_source=wc1&utm\\_medium=email](https://www.hcn.org/issues/50.17/climate-change-can-a-california-town-move-back-from-the-sea-imperial-beach?utm_source=wc1&utm_medium=email)

### **Fire and Agroforestry Revive California Indigenous Groups' Traditions**

- In Northern California, the Karuk and Yurok tribes are burning away decades of forest management practices and revitalizing their foodways and communities. © Civil Eats, 10/11/18. <https://civileats.com/2018/10/11/fire-and-agroforestry-are-reviving-traditional-native-foods-and-communities/>

### **Climate Signal Comes Through**

- When examining what effects climate change may have on streamflow—the flow of water in a river or stream—researchers nearly always look to streams and rivers that are largely unaltered by humans. © The Climate CIRculator, 10/10/18. <https://climatecirculatororg.wordpress.com/2018/10/10/climate-signal-comes-through/>

### **Here's What Humanity Must Do Immediately to Prevent Catastrophic Climate Change, According to the New U.N. Report**

- A landmark United Nations report on Monday warned that sufficiently limiting man-made global warming will “require rapid, far-reaching and unprecedented changes in all aspects of society” in order to avoid dramatic global

consequences, including rising sea levels, dying coral reefs and human casualties due to extreme heat. © Time, 10/10/2018. <http://time.com/5418577/what-humanity-do-limit-climate-change/>

#### **Supporting Native and Indigenous Community Climate Adaptation Efforts Across the Country**

- In recognition of Indigenous Peoples' Day on October 8th, we're exploring the different ways in which the Climate Adaptation Science Center network is supporting and partnering with Tribal nations and Indigenous communities to address science needs, build capacity, and inform climate adaptation planning. © USGS Climate Adaptation Science Center, 10/9/18. <https://casc.usgs.gov/content/supporting-native-and-indigenous-community-climate-adaptation-efforts-across-country>

#### **Climate Sensitivity Uncertainties Leading to More Concern**

- Video explores climate sensitivity to a doubling of CO2 from pre-industrial levels. Models projecting greater warming thought more reliable. © Yale Climate Connections, 10/9/18. [https://www.yaleclimateconnections.org/2018/10/climate-sensitivity-uncertainties-offering-little-comfort/?popupally\\_stop=subscriber](https://www.yaleclimateconnections.org/2018/10/climate-sensitivity-uncertainties-offering-little-comfort/?popupally_stop=subscriber)

#### **New U.N. Climate Report Says Put a High Price on Carbon**

- In its landmark report on the fast-approaching dangers of climate change, a United Nations scientific panel said on Sunday that putting a price on carbon dioxide emissions would be central for getting global warming under control. © The New York Times, 10/8/2018. <https://www.nytimes.com/2018/10/08/climate/carbon-tax-united-nations-report-nordhaus.html>

#### **Earth's Climate Monsters Could be Unleashed as Temperatures Rise**

- As a UN panel prepares a report on 1.5C global warming, researchers warn of the risks of ignoring 'feedback' effects. © The Guardian, 10/5/2018. <https://www.theguardian.com/environment/planet-oz/2018/oct/06/earths-climate-monsters-could-be-unleashed-as-temperatures-rise>

#### **Managing Climate Change May Still Be Possible—But Only If the World Undergoes a Staggering Transformation**

- The United Nations' Intergovernmental Panel on Climate Change (IPCC) is meeting in South Korea this week to discuss the finalization of a report on how the world could limit global warming to below 1.5 degrees Celsius, or 2.7 degrees Fahrenheit, above pre-industrial levels. © Fortune, 10/4/2018. <http://fortune.com/2018/10/04/climate-change-management-drastic-change/>

#### **Volunteer Scientists Study Flowers to Battle Climate Dread**

- The data they're collecting is helping researchers evaluate how ecosystems change. © High Country News, 10/3/18. [https://www.hcn.org/issues/50.18/climate-change-volunteer-scientists-study-wildflowers-to-battle-climate-dread-mount-rainier-national-park?utm\\_source=wc1&utm\\_medium=email](https://www.hcn.org/issues/50.18/climate-change-volunteer-scientists-study-wildflowers-to-battle-climate-dread-mount-rainier-national-park?utm_source=wc1&utm_medium=email)

#### **Emergency Nurses Seeing More Health Issues Linked to Climate Change**

- A litany of health issues is arising as weather and temperatures become more severe, said emergency nursing experts at the national Emergency Nurses Association conference in Pittsburgh last week. © NPR – Pittsburgh, 10/2/18. <http://www.wesa.fm/post/emergency-nurses-seeing-more-health-issues-linked-climate-change#stream/0>

#### **Solar Power is Saving this Farmer Money**

- And he says it's feasible for other growers, too. © Yale Climate Connections, 10/2/18. <https://www.yaleclimateconnections.org/2018/10/solar-power-is-saving-this-farmer-money/>

#### **Experiencing Extreme Weather is Not Enough to Convince Climate Change Skeptics**

- Experiencing extreme weather is not enough to convince climate change sceptics that humans are damaging the environment, a new study shows. © Science Magazine, 10/2/2018. <https://scienmag.com/experiencing-extreme-weather-is-not-enough-to-convince-climate-change-skeptics/>

#### **UN Human Rights Council Passes Resolution on Peasants' Rights Including Right to Seeds**

- The United Nations Human Rights Council last week passed a resolution on the rights of peasants, to be confirmed by the UN General Assembly in November. The resolution includes an article on the right to seeds, and in particular the right to save, use, exchange and sell farm-saved seeds, which has been a longstanding demand of peasants' organisations. The resolution also asks that seed policies and intellectual property laws take into account the rights, needs and realities of peasants. © Intellectual Property Watch, 10/1/2018. <http://www.ip-watch.org/2018/10/01/un-human-rights-council-passes-resolution-peasants-rights-including-right-seeds/>

#### **The U.S. Defense Department Is Losing the Battle Against Climate Change**

- A rock seawall protecting the Air Force's Cape Lisburne Long Range Radar Station on the North East Alaska coast is under increasing duress from extreme weather patterns affecting Arctic sea ice—nearly \$50 million has been spent replacing vulnerable parts of the wall already. © EcoWatch, 10/1/2018. <https://www.ecowatch.com/us-defense-department-climate-change-2609339797.html>

#### **Using Drones to Tell the Story of Climate Change**

- Flying a drone over the Orkney Islands, an archipelago off the north coast of Scotland, the New York Times photographer Josh Haner was often working around the weather. © The New York Times, 9/30/2018. <https://www.nytimes.com/2018/09/30/insider/drones-orkney-islands.html>

### *Resources*

#### **CU Boulder to Host Federal Climate Adaptation Science Center**

- Researchers will focus on science in support of natural resource management, addressing tribal, federal, state and local needs. © Cooperative Institute for Research in Environmental Sciences, 10/23/18. <https://cires.colorado.edu/news/cu-boulder-host-federal-climate-adaptation-science-center>

#### **Building Tribal Capacity for Climate Change Vulnerability Assessment**

- This project will help address limited tribal capacity for vulnerability assessment by providing guidance and data tailored to the needs and capacities of Northwest and Great Basin tribes. A webinar is tentatively scheduled for November 15, 2018 at 11 am Pacific, which will launch the new project website and project outcomes. Anyone who is interested in viewing the website before the formal launch to provide feedback or ask questions can contact Meade at [mkrosby@uw.edu](mailto:mkrosby@uw.edu). © Pacific Northwest Tribal Climate Change Network, 10/18/18. <https://cig.uw.edu/our-work/decision-support/building-tribal-capacity-for-climate-change-vulnerability-assessment/>.

#### **\*Tribal Resilience Liaisons**

- Tribal and Indigenous communities face significant challenges in responding to climate change. The Bureau of Indian Affairs, the U.S. Geological Survey, and Tribal organizations have collaborated to station Tribal Resilience Liaisons at the regional Climate Adaptation Science Centers (CASCs). The Liaisons are typically employed by Tribal organizations and work at CASCs, and aim to increase the resources available to (1) help Tribes access information, data, and expertise at the CASCs and elsewhere; (2) facilitate research integrating traditional knowledge; and (3) support Tribal forums and information exchange. These efforts are designed to better understand, communicate, and meet the needs of Tribes through partnerships to promote more resilient Tribal communities. Read on to meet the Tribal Liaisons and learn about some of their recent activities. © USGS Climate Adaptation Science Centers, 10/9/18. <https://casc.usgs.gov/content/news-tribal-resilience-liaisons>

#### **Water and Climate – Update**

- The Natural Resources Conservation Service produces this weekly report using data and products from the National Water and Climate Center and other agencies. The report focuses on seasonal snowpack, precipitation, temperature, and drought conditions in the U.S. © USDA, 10/4/2018. <https://www.wcc.nrcs.usda.gov/ftpref/support/drought/dmrpt-20181004.pdf>

#### **Examining the Effects of Climate on American Indian Uses of Forests in Pacific Northwest and Northern California**

- The research team seeks to identify tribal priorities through outreach; identify climate impacts on tribally valued forest habitats and resources; review regional tribal vulnerability assessments and adaptation plans; discuss and evaluate the vulnerability to and resilience of traditional knowledge systems, cultural practices and the ecosystem services derived by forests; review methods and approaches of other non-tribal land managers assessing and adapting to climate change; organize and develop examples; use tribal cultural area and eco-regional scale case studies; evaluate applicable climate science and climate policy and governance information; and develop research recommendations responding to the primary objectives. The research team is expecting to send out tribal consultation letters by next month. For more information, contact Frank Lake at [franklake@fs.fed.us](mailto:franklake@fs.fed.us). © Pacific Northwest Tribal Climate Change Network, 10/18/18. <https://tribalclimate.uoregon.edu/network/>

#### **National Congress of American Indians Policy Research Center**

- Research Policy Update. Climate Change: Definitions, Impacts, Data. Climate Change is a complex situation that has a wide range of impacts that will affect tribes differently by region. Tribes can track their local indicators through several data sources. © NCAI, October 2018. [http://www.ncai.org/policy-research-center/research-data/prc-publications/NCAI\\_PRC\\_Research\\_Policy\\_Update\\_-\\_Climate\\_Change\\_FINAL\\_10\\_2018.pdf](http://www.ncai.org/policy-research-center/research-data/prc-publications/NCAI_PRC_Research_Policy_Update_-_Climate_Change_FINAL_10_2018.pdf)

#### **USDA Natural Resources Conservation Service – Soils**

- Soils Tools developed by NRCS include: soil data and maps, soil database, soil apps, climate data, official series descriptions, ecological sites, R for soils. © USDA, 2018.  
<https://www.nrcs.usda.gov/wps/portal/nrcs/main/soils/survey/tools/>

#### **Projected Sea Level Rise for Washington State: A 2018 Assessment**

- The Washington Coastal Resilience Project (WCRP) is a three-year effort to rapidly increase the state's capacity to prepare for coastal hazards, such as flooding and erosion, that are related to sea level rise. The project will improve risk projections, provide better guidance for land use planners and strengthen capital investment programs for coastal restoration and infrastructure. Miller, I.M., Morgan, H., Mauger, G., Newton, T., Weldon, R., Schmidt, D., Welch, M., Grossman, E. 2018. Projected Sea Level Rise for Washington State – A 2018 Assessment. A collaboration of Washington Sea Grant, University of Washington Climate Impacts Group, Oregon State University, University of Washington, and US Geological Survey. Prepared for the Washington Coastal Resilience Project.  
<http://www.wacoastalnetwork.com/files/theme/wcrp/SLR-Report-Miller-et-al-2018.pdf>

#### **Recommended Practices for Landscape Conservation Design**

- LCD is a partner-driven approach to achieve a sustainable, resilient landscape that meets the ecological and social needs of current and future generations. It is an iterative, collaborative, and holistic process resulting in spatially explicit products and adaptation strategies that provide information, analytical tools, maps, and strategies to achieve landscape goals collectively held among Partners (LCC Network 2016a). © USFWS, September 2018.  
<https://www.fws.gov/science/pdf/LCD-Recommended-Practices.pdf>

#### **Climate Change and Future Wildfire in the Western United States: An Ecological Approach to Nonstationary**

- We developed ecologically based climate-fire projections for the western United States. Using a finer ecological classification and fire-relevant climate predictors, we created statistical models linking climate and wildfire area burned for ecosections, which are geographic delineations based on biophysical variables. We predict increasing area burned in most flammability-limited systems but predict decreasing area burned in primarily fuel-limited systems with a flammability-limited ("hybrid") component. © Advancing Earth and Space Science, August 2018.  
<https://agupubs.onlinelibrary.wiley.com/doi/abs/10.1029/2018EF000878>

### ***Other Items of Interest***

#### **Call for Presenters: "Living Breath of wələbʔaltxw" Indigenous Foods Symposium**

- ❖ We invite Individual, Panel or Workshop abstracts for our "Living Breath of wələbʔaltxw" Indigenous Foods Symposium. Our 2019 theme is "Reclaiming Food as Family Medicine." We are looking for abstracts that focus on how Indigenous families are working together to reclaim and revitalize food traditions as a way to support community health and wellness. (Living Breath is a volunteer-led consortium and we may be able to provide modest travel funds and student scholarships). Email your abstracts to Dr. Charlotte Côté (Committee Chair) at [clotise@uw.edu](mailto:clotise@uw.edu). For more information visit <http://www.livingbreathsymposium.org/>. **Deadline for Abstract Submission is January 18, 2019.**

#### **Job Announcement: Diversity, Equity, and Inclusion Coordinator at University Corporation for Atmospheric Research (UCAR)**

- ❖ UCAR's Office for Diversity, Equity, and Inclusion (ODEI) is seeking a new team member for a 2-year, fixed term contract, to assist in the implementation of UCAR's new Diversity, Equity, and Inclusion Strategic Plan, with implementation of NCAR's Rising Voices program expansion, and with training of UCAR employees in diversity, equity and inclusion competencies. We are particularly interested in applicants with personal and/or professional experience in teaching about social justice topics, with an emphasis on the experiences of people with disabilities, and/or Black/African American and/or Indigenous communities.  
<https://ucar.silkroad.com/epostings/?fuseaction=app.jobinfo&jobid=218459&version=1#.W75cleknv4w.email>

#### **Assistant Professor - Native American Environment, Health and Community - Cluster Hire**

- ❖ The University of Wisconsin-Madison is seeking to fill one faculty position in environmental studies as part of a campus-wide cluster hiring initiative to add to the vibrant community of academic researchers at UW-Madison focused on research at the nexus of environment, health, and community in Native American contexts. Further information regarding this initiative can be found at this link: <https://facstaff.provost.wisc.edu/cluster-hiring-initiative/>. Job no: 96076-FA. Additional application information: [click here](#).

#### **Call for Pitches: Intercontinental Cry launches 12-part series on health impacts of indigenous food**

- ❖ In this new article series, Intercontinental Cry will explore the relationship between Indigenous peoples' foods and their health. Journalists from all corners of the globe are invited to send Intercontinental Cry their pitches for this series. Journalists will be paid a fixed rate of CAD\$200 for completed stories that meet the following requirements:



\*Story must be approx. 2000 words in length, \*Include at least 2 interviews from the community, \*Accompanied by at least 5 high-resolution digital images, \*Include one recipe of a traditional meal. We also request that journalists acquire FPIC (Free, Prior and Informed Consent) from relevant indigenous authorities to publish the story on Intercontinental Cry. Pitches should be sent to [IC's Editor in Chief, John Ahni Schertow](#). For more information [click here](#).

## ***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/>

### **Climate Program Office FY 2019 (NOAA)**

- NOAA is focused on providing the essential and highest quality environmental information vital to our Nation's safety, prosperity and resilience. Toward this goal, the agency conducts and supports weather and climate research, oceanic and atmospheric observations, modeling, information management, assessments, interdisciplinary decision-support research, outreach, education, and partnership development. Eligible entities: Native American tribal governments, institutions of higher education, other nonprofits, state, commercial and international organizations. Funding opportunity #: NOAA-OAR-CPO-2019-2005530 at [www.grants.gov](http://www.grants.gov). **Deadline: 11/20/2018.**

### **16th Annual P3 Awards: A National Student Design Competition Focusing on People, Prosperity and the Planet (US EPA)**

- The U.S. EPA – as part of its People, Prosperity and the Planet (P3) Award Program – is seeking applications proposing to research, develop, design, and demonstrate solutions to real world challenges. The P3 competition highlights the use of scientific principles in creating innovative technology-based projects that achieve the mutual goals of improved quality of life, economic prosperity, and protection of the planet – people, prosperity, and the planet. The EPA offers the P3 competition to respond to the needs of people in the United States (U.S.)—e.g., those in small, rural, tribal, and disadvantaged communities. Applicants should identify one topic within that research area that will be the focus of their project. **Deadline: December 11, 2018.** The Funding Opportunity #'s and associated research areas for this RFA are listed below:
  - EPA-G2019-P3-Q1 – Air Quality
  - EPA-G2019-P3-Q2 – Safe and Sustainable Water Resources
  - EPA-G2019-P3-Q3 – Sustainable and Healthy Communities
  - EPA-G2019-P3-Q4 – Chemical Safety

### **Wetland Reserve Easements (NRCS)**

- NRCS also provides technical and financial assistance directly to private landowners and Indian tribes to restore, protect, and enhance wetlands through the purchase of a wetland reserve easement. For acreage owned by an Indian tribe, there is an additional enrollment option of a 30-year contract. USDA NRCS Florida. **Deadline: December 31, 2018.** <https://www.nrcs.usda.gov/wps/portal/nrcs/main/fl/programs/easements/acep/>

### **2019 Ecological Effects of Sea Level Rise Program (EESLR)**

- This solicitation is to improve adaptation and planning in response to regional and local effects of sea level rise and coastal inundation through targeted research on key technologies, natural and nature-based infrastructure, physical and biological processes, and model evaluation. Eligible applicants include Indian Tribal Governments and tribal colleges. Funding opportunity #: NOAA-NOS-NCCOS-2019-2005813 at [www.grants.gov](http://www.grants.gov). **Deadline 1/16/2019.**

### **Flood Mitigation Assistance Program (FMA)**

- The FMA Grant Program makes available Federal funds to State, Local and Tribal Governments to reduce or eliminate the risk of repetitive flood damage to buildings and structures insured under the National Flood Insurance Program (NFIP). In FY18, the FMA Program will prioritize proposals that address community flood risk by setting aside \$70 million for this purpose. FMA will seek to fund two types of community flood mitigation activities: Advance Assistance for flood mitigation design and development of community flood mitigation projects and mitigation projects that address community flood risk for the purpose of reducing NFIP flood claim payments. Applicants must submit applications via [the Mitigation eGrants system on the FMA Grants Portal](#). Applicants may submit a maximum of 1 advanced assistance and 1 community mitigation project sub-application. Eligible entities: Native American Tribal governments (Federally recognized), state governments and others. Funding opportunity #: DHS-18-MT-029-000-99 at [www.grants.gov](http://www.grants.gov). **Deadline: 01/31/2019.**

### **Pre-Disaster Mitigation Program (PDM)**

- The PDM program makes available Federal funds to State, Local and Tribal Governments to implement and sustain cost-effective measures designed to reduce the risk to individuals and property from natural hazards, while also reducing reliance on Federal funding from future disasters. FEMA will provide allocations of \$575,000 as required by the Stafford Act to states and territories; and a tribal set aside of \$15 million for allocations up to \$575,000 for Native American Indian tribal governments to support overall mitigation planning and projects. The remaining PDM funds will be awarded on a competitive basis with a focus on multi-state/tribal mitigation initiatives. Applicants must submit applications via the [Mitigation eGrants system on the FEMA Grants Portal](#). Applicants may submit a maximum of 9 project sub-applications notwithstanding any project(s) submitted for the state/territory allocation or tribal set aside. In addition, any state or tribe willing to serve as the applicant for a multi-state or tribal activity may submit one additional plan or project sub application. Eligible entities: Native American Tribal governments (federally recognized), state governments, and others. Funding opportunity #: DHS-18-MT-047-000-99 at [www.grants.gov](http://www.grants.gov). **Deadline 01/31/2019.**

### **National Clean Diesel Campaign (EPA: Office of Transportation & Air Quality)**

- EPA is soliciting applications nationwide for Tribal projects that achieve significant reductions in diesel emissions and diesel emissions exposure, particularly from fleets located in areas designated as having poor air quality. EPA anticipates \$2 million will be awarded to eligible Tribal applicants. EPA will hold another webinar on Thursday, February 21, 2019, at 2:00 p.m. (ET). Webinar information and links are available at <https://www.epa.gov/cleandiesel/clean-diesel-tribal-grants#2018rfp>. **Deadline to apply 04/03/2019.**

## *Upcoming Events*

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

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

### **November**

#### **Online Short Course: Managing for a Changing Climate: Societal Impacts of Climate Change**

October 22 – November 26. Our short courses will provide an integrative understanding of the components of the climate system. We will discuss the impacts of a changing climate on sectors such as the economy, policy, ecosystems, and indigenous populations. We will also discuss how managers can adapt to these changes. Click on link to register

<https://docs.google.com/forms/d/e/1FAIpQLScEILCxZ4H5WHayNyc9JHr2KcQUoWqf5PzXNQ1H8UdAXzNV2A/viewform>

#### **Online Course: Climate Impacts: Communication, Facilitation and Stakeholder Capacity Building**

November 4 – December 8. These online courses are for individuals working on the ground in resource management, hazard mitigation, community planning, business and organizational operations, as well as other professionals looking to expand their knowledge of “how to” implement climate resilience. These four week short courses are available for continuing education credits too. For additional information or to register visit

<https://www.antioch.edu/new-england/resources/centers-institutes/center-climate-preparedness-community-resilience/climate-change-resilience-series/>

#### **Climate 101**

November 5, Albuquerque, NM. This one-day course will address the causes of climate change and its observed and projected effects. Participants will obtain a basic understanding of how the global climate system functions, how a changing climate impacts local communities and ecosystems, and an introduction to some tools and resources that staff from a variety of sectors can use to assess and address climate impacts. The course is suitable for both GIS professionals and tribal staff and administrators from non-GIS backgrounds.

The workshop will be held during the National Tribal GIS Conference. If you plan on attending the rest of the conference, register for [Climate 101 here](#). Exclusive registration for [Climate 101 here](#).

#### **Webinar: Building Resilience in Partnership with Vulnerable Communities**

November 8, 1:00 p.m. (EST). The ability of a community to respond, recover, and bounce back from increased risk to local waters from extreme weather and natural disasters is not equally distributed. Environmental justice recognizes that some communities experience higher exposure to local water pollution and degraded local waterways on top of other social factors that increase vulnerability. Join us for this webinar that will look at the environmental justice factors contributing to vulnerability and examples of how EPA and its partner programs have effectively worked to help build resilience with vulnerable communities. We will also explore how the Urban Water

Partnership model can build more resilient networks. Advanced registration is required at the [Watershed Academy Webcast website](#).

**Webinar: Understanding Organizations Using Ethnographic Field Methods**

November 13, 11:00 a.m. (PT). Northwest Climate Adaptation Science Center Skills-Building Webinar Series - Social Science tools for Making Science Actionable. This webinar series was designed to help those engaged in climate science research better understand the range of approaches for developing actionable science. Each webinar explores ways to support effective collaborations between scientific researchers and natural resource managers. Register at: <https://nwcasc.uw.edu/resources/actionable-science-webinars/>.

**Webinar: Novel Approaches for Estimating and Visualizing Climate Vulnerability for Aquatic Systems**

November 14, 12:00 p.m. (ET). Ben Letcher, USGS Leetown Science Center - Silvio O. Conte Anadromous Fish Research Center will present novel approaches for estimating and visualizing climate vulnerability for aquatic systems. Please check back for more information. Webinar log-in will be posted soon.  
<https://necsc.umass.edu/webinars>

**Workshop: Become a NRCS Technical Service Provider**

November 14-15, Pasco, WA. Becoming a TSP can leverage resources to help your existing clients and expand your network for conservation projects. This two-day workshop will provide an overview of the Environmental Quality Incentives Program (EQIP) and assist participants through the TSP application process. Make sure to request your eAuthentication level 2 account at [www.eauth.usda.gov](http://www.eauth.usda.gov) prior to attending so we can help you build your TSP profile. To reserve your seat please register at: <https://wanrcs.wufoo.com/forms/nrcs-technical-service-provider-tsp-workshop/>. For more information contact Tracy Hanger at 509-323-2974.

## December

**Conference: 7<sup>th</sup> National Grazing Lands Conference**

December 2-5, Reno, NV. Attendees will learn from the experts about cutting-edge technologies and management systems for sustainably managing these private and public lands. Organizers expect more than 800 ranchers, professors, land managers, public officials and ecologists from across the U.S. to gather in Reno. To register online and obtain more information about the conference, visit [www.grazinglands.org](http://www.grazinglands.org).

**Webinar: Qualitative Data: Understanding and Using Interview, Survey Observational Data**

December 11, 11:00 a.m. (PT). NWCASC's *Skills-Building Webinar Series - Social Science* tools for Making Science Actionable. This webinar series was designed to help those engaged in climate science research better understand the range of approaches for developing actionable science. Each webinar explores ways to support effective collaborations between scientific researchers and natural resource managers. [Register here](#).

**Training: Forest Adaptation Planning and Practices Workshop**

December 11-12, Hogsburg, NY. This workshop will provide information on the current and anticipated effects, outline adaptation concepts and strategies, describe resources and tools that can be used to integrate climate change, and identify actions that enhance the ability of forests and other ecosystems to adapt to changing conditions. To register contact Les Benedict, Saint Regis Mohawk Tribe at [les.benedict@srmt-nsn.gov](mailto:les.benedict@srmt-nsn.gov) or (518) 358-5937 x118.

**Webinar: Wildlife Adaptation Synthesis**

December 12, 12:00 p.m. (ET). Olivia LeDee, Acting USGS Director of NE CASC will present a synthesis of wildlife adaptation. Please check back for more information. Webinar log-in will be posted soon.  
<https://necsc.umass.edu/webinars>

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