



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

July 2019



*Central Cohort In-Person Meeting
Albuquerque, NM*

Ya'at'teeh!

We hope everyone is staying cool and having a wonderful summer. With school fast approaching we wish all students, young and old, a wonderful school year.

We'd also like to express a huge thank you to all the wildfire personnel who assisted with the Museum Fire here in Flagstaff. We are deeply grateful.

In June, we held our first two-day in-person meeting with New Mexico pueblos in our central cohort. We learned about what it takes to do vulnerability assessments, literature reviews, and community engagement activities which included speed dating discussing the topic of climate change. Only one or two resulted in requests for second dates! ;) In addition, we had the pleasure of having recently hired Maurice Cruz, <https://mailchi.mp/3ad49a1eeb68/rfdawfklvh?e=6e85c204d5>, New Mexico tribal liaison of the South Central Climate Adaptation Science Center, join and meet the cohort. Welcome Maurice!

Executive director, Ann Marie Chischilly and TCC co-manager, Nikki Cooley attended and presented at the Tribes and First Nations Climate Change Summit in Spokane, WA. Thank you to the Kalispel Tribe of Indians and the Associated Tribes of Northwest Indians (ATNI) for hosting an amazing event. Coming up are some amazing events to keep in mind: Southwestern Tribal Climate Change (SWTCC) Summit in Idyllwild, CA at the Idyllwild Arts Academy, ITEP's Tribal Lands and Environment Forum (TLEF), or the United South and Eastern Tribes (USET) Climate Resilience Summit. Remember to visit our events calendar for new events and also to check-out what's going on <http://www7.nau.edu/itep/main/tcc/Training/Events> throughout Indian country.

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

- Nikki, & Karen

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Newsletter

To subscribe or unsubscribe to this newsletter, please go to 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/

In The News

Indigenous Knowledge to Inform Science to Save Oceans

- The head of the United Nations body responsible for ocean conservation says indigenous Pacific knowledge can help define the science needed to save the ocean. © Radio New Zealand, 07/26/2019. <https://www.rnz.co.nz/international/pacific-news/395293/indigenous-knowledge-to-inform-science-to-save-oceans>

Latest Gulf Storm Brings Tough Choices for Residents of Disappearing Isle de Jean Charles

- While most of Louisiana was spared Barry's wrath last week, Isle de Jean Charles, a quickly eroding strip of land among coastal wetlands in the Gulf of Mexico, was not. A storm surge swept over the island, about 80 miles southwest of New Orleans, early in the morning on July 13 before Barry was upgraded from a tropical storm to a category 1 hurricane. © DESMOG, 07/17/2019. <https://www.desmogblog.com/2019/07/17/tropical-storm-barry-isle-de-jean-charles-tribe-louisiana>

The Ute Mountain Ute Tribes Goes Solar

- In the southwest corner of Colorado, the sun beats down on the Ute Mountain Ute Reservation. High desert runs to the horizon in every direction, broken only by imposing mesas and Sleeping Ute Mountain. Just under 2,000 people live on the 580,000-acre-reservation, which sprawls across Colorado, New Mexico and Utah. But as temperatures rise with climate change, utility bills rise with them, and the Ute Mountain Ute tribe has begun transitioning to 100% renewable power — a movement towards energy sovereignty they have been forging for almost a decade. © High Country News, 07/16/2019. https://www.hcn.org/articles/tribal-affairs-the-ute-mountain-ute-tribe-goes-solar?utm_source=wc1&utm_medium=email

Local and Traditional Knowledge Included in Bering Sea Management Plan

- With assistance from Alaska Sea Grant, the North Pacific Fishery Management Council recently adopted what some are calling a groundbreaking ecosystem management plan for the Bering Sea that incorporates local and traditional knowledge. © Alaska Native News, 07/14/2019. <https://alaska-native-news.com/local-and-traditional-knowledge-included-in-bering-sea-management-plan/43336/>

Udall, Schatz, Senators Request Feedback from American Indian, Alaska Native, and Native Hawaiian Community Leaders on the Effects of Climate Change on Native Communities

- Democratic senators from the Indian Affairs Committee and the Special Committee on the Climate Crisis seek input from American Indian, Alaska Native and Native Hawaiian Community leaders about potential solutions and adaptive responses to climate change. United States Senate Committee on Indian Affairs, 07/10/2019. <https://www.indian.senate.gov/news/press-release/udall-schatz-senators-request-feedback-american-indian-alaska-native-and-native>

Nome Plant Symposium Finds Sustenance in Indigenous Roots (and Flowers, Too)

- Last week, Norton Sound Health Corporation held its first ever Plant Symposium in Nome, funded by the Alaska Native Tribal Health Consortium. The mini grant for hosting an Alaska Plants as Food & Medicine Symposium was funded directly from registrations of ANTHC's 2016 Anchorage-based symposium. © KNOM Radio Mission, Inc., 07/03/2019. <https://www.knom.org/wp/blog/2019/07/03/nome-plant-symposium/>

City Establishes Department to Assist Communities Affected by Climate Change

- The Los Angeles City Council Wednesday approved the creation of a municipal department charged with addressing local impacts of climate change. © CalNews Inc. 07/03/2019. <https://mynews1a.com/weather/2019/07/03/city-establishes-department-to-assist-communities-affected-by-climate-change/>

As Climate Chaos Escalates in Indian Country, Feds Abandon Tribes

- Late last March, an unseasonably hot column of air shot suddenly upward from the U.S. Great Plains and collided with the frigid high atmosphere above South Dakota, sending barometric pressure plummeting. © Mongabay, 07/01/2019. <https://news.mongabay.com/2019/07/as-climate-chaos-escalates-in-indian-country-feds-abandon-tribes/>

Oregon Governor Ready to Take Lead on Divisive Climate Plan

- Oregon Gov. Kate Brown said Monday that she's ready to use her executive power to lower carbon emissions following a nine-day Republican walkout that derailed landmark climate legislation and embroiled the state in a political crisis pitting liberal cities against rural residents. © The Associated Press, 07/01/2019. <https://www.apnews.com/06323bf0b26a4c468b0db0be8c1f1d65>

Will Climate Change Force This Alaska Village to Relocate?

- Less than a mile out, Matthew Friendly cuts the motor on his 18-foot boat and pokes an oar into the cold murky waters of the Bering Sea. © The Christian Science Monitor, 07/01/2019. <https://www.csmonitor.com/Environment/2019/0701/Will-climate-change-force-this-Alaska-village-to-relocate>

Restoring Native American Health with Indigenous Foods

- Imagine savoring smoked turkey soup prepared with burnt sage; bison that has been slow-cooked, in spruce boughs; smoked trout or walleye and sunflower and hazelnut crisp—ingredients found in traditional Native American cuisine. Until colonization pork, chicken, beef, sugar, dairy, and eggs were completely absent from the Native American diet. © Foodtank, 07/2019. <https://foodtank.com/news/2019/07/restoring-native-american-health-with-indigenous-foods/>

Avengers Endgame Heroes Fight Climate Change

- The Marvel actors have just endorsed Zero Hour, an international youth-led climate justice organization. © Parentology, 07/2019. <https://parentology.com/avengers-endgame-heroes-fight-climate-change/>

Southeast Alaska Tribal Council Develops Climate Change Plan

- Climate change in Alaska's high Arctic often captures headlines. © Stories in The News, 06/28/2019. http://www.sitnews.us/0619News/062819/062819_climate_change_plan.html

Maple Syrup Production to Decline in New England in the Next Century Says New Study by UMass Amherst and Northeast CASC

- Climate change will move peak syrup yield northward and will cut New England's yield by half. © USGS, 06/28/2019. <https://www.usgs.gov/center-news/maple-syrup-production-decline-new-england-next-century-says-new-study-umass-amherst-and>

Traditional Ecological Knowledge: Indigenous Science, Archaeology and 'Truth'

- In 2018, my colleague, George Nicholas, wrote a Guest Column for the U.S. National Park Service as a response to some negative comments on another article he had written to further argue that Traditional Ecological Knowledge (TEK) is a legitimate way of knowing about natural resources management. © National Park Service, 06/27/2019. <https://www.nps.gov/subjects/tek/annie-ross.htm>

How Solar Could Make WA Tribes Energy Independent

- After a 2016 fire left the Spokane Tribe without water or power, the community turned to solar for back up. Will other tribes follow suit? © Crosscut, 06/24/2019. <https://crosscut.com/2019/06/how-solar-could-make-wa-tribes-energy-independent>

NCAI Announces Appointment of Four Tribal Leaders to Serve as Co-Chairs of Climate Action Task Force

- Today, the National Congress of American Indians (NCAI) announced the appointment of four tribal leaders to serve as the inaugural Co-Chairs of NCAI's new Climate Action Task Force. NCAI President Jefferson Keel announced the establishment of the Task Force at NCAI's Executive Council Winter Session in February. © National Congress of American Indians, 06/20/2019. <http://www.ncai.org/news/articles/2019/06/20/ncai-announces-appointment-of-four-tribal-leaders-to-serve-as-co-chairs-of-climate-action-task-force>

Quinhagak Considers Relocation as Climate Change Accelerates Erosion

- Accelerating erosion is forcing villages in Western Alaska to begin making plans to move, officials say. © Anchorage Daily News, 06/18/2019. <https://www.adn.com/alaska-news/rural-alaska/2019/06/18/quinhagak-considers-relocation-as-climate-change-accelerates-erosion/>

Early Lives of Alaska Sockeye Salmon Accelerating with Climate Change

- An ample buffet of freshwater food, brought on by climate change, is altering the life history of one of the world's most important salmon species. © Science Daily, 06/04/2019. <https://www.sciencedaily.com/releases/2019/06/190604151050.htm>

To the Ends of the Earth

- This podcast episode investigates why efforts to relocate the community of Kivalina, Alaska have been unsuccessful. Listen in at minute 33:20. © The Center for Investigative Reporting, 06/01/2019. <https://www.revealnews.org/episodes/to-the-ends-of-the-earth/>

Resources

ITEP Tribal Profile: Bad River Band of Lake Superior Chippewa



ITEP has been working with tribes across the country to profile what they are doing to address the immediate and long-term impacts from climate change. The urgency tribes are facing from climate change is imminent as there are increasing droughts, flooding, wildfires, and disappearing flora and fauna. These tribal profiles showcase what they are doing so other tribes can take note of what they can do in their own respective communities.

Check out the latest profile to be published for the Great Lakes region:

http://www7.nau.edu/itep/main/tcc/Tribes/gl_badriv

Does Your Community Need Help with Climate Change Adaptation Planning?

- As part of a National Science Foundation-funded study, Virginia Tech and EcoAdapt are excited to offer support for up to eight communities to undertake a stakeholder-driven climate change vulnerability assessment and adaptation planning workshop (1-2 days). The goal of these workshops is to build local capacity for climate change adaptation, improve understanding about local climate change vulnerabilities, and develop implementable adaptation responses. **Applications are due by August 30.** Community Recruitment Survey can be completed at <https://docs.google.com/forms/d/e/1FAIpQLSeo7U3apU6vN14nFXOTmCqzIGmOmhleXIO67mp4Yk9bxNHFw/vie wform>

Climate Vulnerability Assessment for Pacific Salmon and Steelhead in the California Current Large Marine Ecosystem

- Major ecological realignments are already occurring in response to climate change. To be successful, conservation strategies now need to account for geographical patterns in traits sensitive to climate change, as well as climate threats to species-level diversity. As part of an effort to provide such information, we conducted a climate vulnerability assessment that included all anadromous Pacific salmon and steelhead (*Oncorhynchus* spp.) population units listed under the U.S. Endangered Species Act. © PLOS ONE, 07/24/2019. <https://journals.plos.org/plosone/article?id=10.1371/journal.pone.0217711>

Managing for a Changing Climate - Short Course Sign Up

- In Fall 2019, the Southcentral Climate Adaptation Science Center at the University of Oklahoma will offer four short courses that will provide an integrative understanding of the components of the climate system. We will discuss the impacts of a changing climate on multiple sectors such as the economy, policy, ecosystems, and indigenous populations. In addition, we will discuss how managers can adapt to these changes. The courses are free and online, so anyone from anywhere may participate! Schedule is below under the 'Events' tab. To register for a short course visit: <https://forms.gle/BxVvFpxekenD2J638>. © South Central Climate Adaptation Science Center, 07/18/2019.

Section 368 Energy Corridors Regional Review – Summary of Regions 4, 5, and 6 Workshops and Recording of Webinar held June 27, 2019

- A Section 368 energy corridor regional review status webinar for Regions 4, 5, and 6 was held on June 27, 2019, at 11 am MDT. The webinar focused on the recent stakeholder workshops in Missoula, Montana; Rock Springs, Wyoming; Reno, Nevada; and Redmond, Oregon. A recording of the webinar is available below. The written summary of Regions 4, 5, and 6 workshops and the slides presented during the webinar are also available for download. © West-wide Energy Corridor Information Center, 07/14/2019. <http://corridoreis.anl.gov/>

Regional Resilience Toolkit: 5 Steps to Build Large-Scale Resilience to Natural Disasters

- From 2013 to 2018, the Federal Emergency Management Agency (FEMA) and U.S. Environmental Protection Agency (EPA) helped three California regions take large-scale action for disaster resilience. Based on these technical assistance projects, FEMA and EPA partnered with the Metropolitan Transportation Commission/Association of Bay Area Governments (MTC/ABAG) to create a toolkit that helps regions plan for disasters by working across multiple jurisdictions and with non-governmental partners. © U.S. EPA, 07/10/2019. <https://www.epa.gov/smartgrowth/regional-resilience-toolkit>

4th National Adaptation Forum Presentations are Online

- Want to revisit a presentation you saw at the National Adaptation Forum? Missed the Forum but want to read up on the latest in adaptation? Now is your chance. Visit the National Adaptation Forum website to see presentations in the online program. © National Adaptation Forum, 07/09/2019.
https://www.nationaladaptationforum.org/program/tuesday?utm_source=New+NAF+outreach&utm_campaign=CFP+7-25&utm_medium=email%C2%A0

Balancing Tribal Economic Development, Sustainable Cultural Uses and Wetland/Aquatic Resource Protection and Restoration

- During this webinar, Mr. Elliott will share information regarding the Toppenish Creek Corridor Plan and how the Yakama Nation is working to restore floodplain functions by decoupling past irrigation projects from current restoration efforts to restore in-channel and floodplain habitat, increase water quality, enact land protection, and recharge alluvial fan groundwater while maintaining the important agricultural economy. Ms. Warner will discuss the Tulalip Tribe's in-lieu fee program, how it was developed, barriers that had to be overcome, and how the program will contribute to preservation and restoration efforts and provide for greater cultural uses of those resources. And finally, Ms. Kuhlman's presentation will share information about the Lummi Nation Wetland and Habitat Mitigation Bank, the first tribally developed and operated commercial wetland mitigation bank in the United States, and how the tribe is balancing residential, municipal, and commercial development with natural resources protection to support tribal sovereignty and protection of their natural and cultural resources. To hear the recorded webinar held on June 25, 2019 click on the following link: <https://www.aswm.org/webinars-trainings/aswm-s-online-trainings/10008-past-2019-epa-region-10-tribal-wetland-training-webinars>. © Association of State Wetland Managers, 06/25/2019.

A Call to Community

- It's time to talk about how Tribal Nations will adapt to climate change. This public service announcement was produced at the Affiliated Tribes of Northwest Indians' Tribal Climate Camp of 2019. Filmed at Flathead Lake, MT by Oregon State Productions in collaboration with the Confederated Tribes of the Umatilla Indian Reservation. Video is available at <https://vimeo.com/343525578>. © Oregon State University, 06/25/2019.

Improvements in Water Quality Could Reduce Ecological Impact of Climate Change on Rivers

- Warm water can affect freshwater organisms in similar ways to many pollutants: both reduce the availability of oxygen in the water. As oxygen levels decline, sensitive species may disappear, including invertebrates such as mayflies, and fish such as salmon and trout. On a more positive note, efforts to improve water quality, such as improved wastewater treatment and tighter regulation, could potentially counteract some of the effects of climate warming. © Cardiff University, 06/03/2019.
https://www.sciencedaily.com/releases/2019/06/190603102545.htm?utm_source=feedburner&utm_medium=email&utm_campaign=Feed%3A+sciencedaily%2Fearth_climate%2Fglobal_warming+%28Global+Warming+News++ScienceDaily%29

Bureau of Indian Affairs Releases Native Fire - An Educational Video About the Safe Use and Application of Prescribed Fire

- "Native Fire" discusses Native American's historic use of fire and addresses how traditional practices in the southern plains states have influenced its modern-day application. In it, fire research specialists speak to this history and address some of the complex challenges facing landscapes today. © Bureau of Indian Affairs, 06/2019.
<https://www.bia.gov/bia/ots/dfwfm/bwfm/forestry-fire-management-stories/bureau-indian-affairs-releases-native-fire>

Cultural Values Based Planning for Integrated Wetland Management on a Watershed or Reservation Scale

- EPA Region 10 Tribal Wetland Training Webinars previously hosted this webinar on November 6, 2018 with Jon Hall, Tulalip Tribes of Washington, Tom Elliott, Yakama Nation, and Andy Robertson, Saint Mary's University of Minnesota. Click on the following link to hear this recording: <https://www.aswm.org/webinars-trainings/aswm-s-online-trainings/6738-epa-region-10-past-webinars>. © Association of State Wetland Managers, 11/06/2018.

Climate Change Adaptation Resource Center (ARC-X)

- EPA's Adaptation Resource Center (ARC-X) is an interactive resource to help local governments effectively deliver services to their communities even as the climate changes. Decision makers can create an integrated package of information tailored specifically to their needs. Once users select areas of interest, they will find information about: the risks posed by climate change to the issues of concern; relevant adaptation strategies; case studies illustrating how other communities have successfully adapted to those risks and tools to replicate their successes; and EPA funding opportunities. © U.S. EPA, 10/04/2018. <https://www.epa.gov/arc-x>

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/>

Luce Indigenous Knowledge Fellowship Opportunity

- First Nations Development Institute (First Nations), in partnership with The Henry Luce Foundation (Luce), is proud to launch the Luce Indigenous Knowledge Fellowship. Through this new fellowship program, we will award 10 fellowships of \$50,000 each to outstanding Native Americans engaged in meaningful work that benefits Indigenous people and communities in either reservation and/or urban settings. This fellowship is intended to support Native knowledge holders and knowledge makers that embody exceptional creativity, progressive and critical thinking, and the potential to significantly move forward their field in ways that will ultimately lead to broad, transformative impacts for Indigenous communities. **Deadline to apply is September 13, 2019.** For more information visit:

<https://www.firstnations.org/rfps/likf-1/>

Upcoming Events

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

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

August

Summit: 2019 Eastern Native Youth Food Sovereignty Summit

August 1-4, Presque Isle, ME. The Native Youth Food Sovereignty Alliance envisions culturally-appropriate, sustainable and self-sufficient food and agricultural systems in Indian Country and around the world. Visit iacyouthhub.com for more information. Applications are open for the 2019 Eastern Native Youth Food Sovereignty Summit, organized by Intertribal Agriculture Council and hosted by the Aroostook Band of Micmacs and sponsored by Maine Natural Resources Conservation Service. This year's event is open to high school and college aged youth (ages 14 - 22) and will be held August 1-4, in Presque Isle, ME. For more information and to apply visit: <https://www.indianag.org/post/2019easternyouthsummit>.

Webinar: Climate Change and Tribes and Indigenous Peoples: Findings from the Fourth National Climate Assessment

August 6, 12pm EDT. NOAA and the U.S. Global Change Research Program present a OneNOAA Science Seminar Series highlighting findings from the Fourth National Climate Assessment. All webinars will be available at www.globalchange.gov/engage/webinars. For more, contact Katie Reeves (kreeves@usgcrp.gov) or Tracy Gill (Tracy.Gill@noaa.gov) or visit www.nodc.noaa.gov/seminars/.

Webinar Series: Tribal Climate & Health Adaptation: Introduction

August 6, 9am, PST. First initial call followed by 1st & 3rd Tuesday of the month from Aug 6 – Dec, 17, 2019. FREE Interactive Training. Some of the most tragic impacts of climate change are projected to come in the form of illness, injury, and death, which will disproportionately impact the most vulnerable members of a community. A comprehensive tribal climate change adaptation plan can help a Native American tribal community better understand, prepare for, and protect against such impacts. However, many adaptation plans place greater emphasis on environmental, infrastructural, or other issues and do not adequately analyze human health concerns. This may be because there can be an overwhelming amount of potential human health impacts and limited resources to obtain, understand, or analyze this information. The training will provide steps, tools, templates, case studies, and other resources that seek to streamline the adaptation planning process and make it easier for tribal health and environmental professionals to understand and address human health exposures and impacts within tribal communities. This training will summarize the latest data and literature on the exposures and impacts of climate change that may impact the health of tribal community members. It will also describe how to identify and select appropriate strategies to address these exposures and impacts. For more information visit <http://ped.palatribe.com/tcha-webinar/> and to register visit <https://www.eventbrite.com/e/tribal-climate-health-adaptation-webinar-series-tickets-64677368751>

Tree Planting: Plant Trees With Trees, Water & People in New Mexico

August 6-10, Santo Domingo Pueblo, NM. Trees, Water & People will be heading down to the Pueblo of Santo Domingo in New Mexico to plant 13,000 Douglas fir tree seedlings as our first project in partnership with the local tribe. We are excited to open up this opportunity to volunteers and supporters who have joined in the past, or

newcomers who are able to walk and work hard outside all day. A volunteer form is available at <https://www.emailmeform.com/builder/form/l4YEUfpFs7l8un1ydr1w>. For questions contact National Program Coordinator at james@treeswaterpeople.org or (505) 280-2854.

Webinar: Opportunities for Engaging and Learning About How to Incorporate Tribal Health into Climate Adaptation Plans

August 7, 11am PT. Join Dr. Shasta Gaughen and Jamie Donatuto as they share and provide an overview of the unique health curriculum and tools available of including tribal health into tribal climate adaptation plans. To register visit : <https://register.gotowebinar.com/register/1112706167805423362>

Youth Summit: Tribal Youth Water Summit – Empowering Clean Minds for Cleaner Water

August 10-16, Eugene, OR. Join us at the University of Oregon for a week-long leadership and education experience for tribal youth. Leadership comes in all forms, from speaking out to being an active citizen in your community. At the Changing Currents: Tribal Youth Water Summit, we will be exploring what it means to be the next generation of water leaders. The summit is intended to bring together like-minded tribal youth with a passion for water, natural resources, education and social action. For more information and to apply visit: <https://www.changingcurrents.net/youth-summit>.

Summit: 2019 Southwestern Tribal Climate Change Summit (SWTCCS)

August 13-16, Idyllwild Arts Academy, CA. The 2019 Southwestern Tribal Climate Change Summit (SWTCCS) provides an opportunity to come together, focus on climate strategies and solutions, and advance Tribal resilience efforts throughout the Southwest and North America. This 2019 Summit will be an interactive leadership-style retreat with small group breakout sessions, plenary style presentations on Tribal case studies, and a powerful climate training opportunity for student ambassadors. The summit is a cooperative endeavor co-sponsored by the La Jolla Band of Luiseno Indians, Climate Science Alliance (CSA), the Pala Band of Mission Indians and The Institute for Tribal Environmental Professionals (ITEP), and made possible by support and funding from the U.S. Bureau of Indian Affairs (BIA) Tribal Resilience Program. For more information, visit: http://www7.nau.edu/itep/main/tcc/Training/confir_stccs

Webinar: Tourism and Recreation in a Changing Climate: Findings from the Fourth National Climate Assessment

August 13, 12pm EDT. NOAA and the U.S. Global Change Research Program present a OneNOAA Science Seminar Series highlighting findings from the Fourth National Climate Assessment. All webinars will be available at www.globalchange.gov/engage/webinars. For more, contact Katie Reeves (kreeves@usgcrp.gov) or Tracy Gill (Tracy.Gill@noaa.gov) or visit www.nodc.noaa.gov/seminars/.

Forum: Tribal Lands and Environment Forum

August 19-22, Palm Springs, CA. This year's TLEF will feature special trainings, field trips, and breakout sessions focused on the conference theme: *A National Conversation on Tribal Land and Water Resources*. Topics highlighted at the TLEF include solid/hazardous waste management, brownfields, UST/LUSTs, Superfund sites, and emergency response. Tribal water program topics – water quality, drinking water, and habitat restoration (including wetlands, streams and fisheries) will also be included with breakout sessions, trainings and field trips. Plenty of networking opportunities will also be offered, making this a terrific event for tribal professionals, federal staff, nonprofit and industry personnel, and students of environmental sciences and Native American Studies, to connect with their colleagues who are also protecting the environment and their communities. For more information visit: http://www7.nau.edu/itep/main/Conferences/confir_tlef

Webinar: International Effects and Complex Systems in a Changing Climate: Findings from the Fourth National Climate Assessment

August 20, 12pm EDT. NOAA and the U.S. Global Change Research Program present a OneNOAA Science Seminar Series highlighting findings from the Fourth National Climate Assessment. All webinars will be available at www.globalchange.gov/engage/webinars. For more, contact Katie Reeves (kreeves@usgcrp.gov) or Tracy Gill (Tracy.Gill@noaa.gov) or visit www.nodc.noaa.gov/seminars/.

Summit: Wildlife Corridors Summit

August 20, Taos, NM. Mark your calendars. The 2019 Upper Rio Grande Wildlife Corridors Summit will bring together elected officials, federal and state agencies, tribal leaders, hunters, anglers, private land owners and conservation groups to discuss new opportunities to promote and protect wildlife corridors and connectivity. More information is forthcoming.

Webinar Series: Tribal Climate & Health Adaptation: Climate Change & Health 101

August 20, 9am, PST. 1st & 3rd Tuesday of the month from Aug 6 – Dec, 17, 2019. FREE Interactive Training. This training will summarize the latest data and literature on the exposures and impacts of climate change that may impact the health of tribal community members. It will also describe how to identify and select appropriate strategies to address these exposures and impacts. For more information visit <http://ped.palatribe.com/tcha-webinar/> and to register visit <https://www.eventbrite.com/e/tribal-climate-health-adaptation-webinar-series-tickets-64677368751>

Conference: 6th Annual National Joint Tribal Emergency Management Conference

August 21-23, Green Bay, WI. Please consider joining us this coming year for the largest gathering of Native American emergency managers and homeland security personnel in the Country as we travel to the Oneida Nation in Wisconsin! If you have been waiting to work more closely with Tribal Country, then this is the conference for you! This year we celebrate the 6th Anniversary of the National Tribal Emergency Management Council. In addition, our partner organizations will be joining us in raising greater awareness to our Tribal Emergency Management programs, while increasing even further information sharing across the country. For more information and to register visit <http://ntemc.org/>

Webinar: Building Climate Resilience by Connecting to Health

August 22, 11am PT/ 2pm ET. Climate change has been called the greatest 21st century threat to public health. Health departments from around the country, concerned about the negative health impacts of climate change, are engaging communities and professionals from other disciplines to implement adaptation strategies and increase community resiliency. This webinar will revisit the 2018 discussion provided by speakers from the Centers for Disease Control and Prevention's (CDC) Climate-Ready States & Cities Initiative. Hear a "one year" update from Nissa Tupper from the Minnesota Department of Health Climate & Health Program and have a chance for Q & A with Aaron Ferguson, MPA, with the Michigan Department of Health and Human Services Climate & Health Adaptation Program. To register visit:

<https://register.gotowebinar.com/register/9040839213328125195?source=Website>

Short Course: Managing for a Changing Climate: Introduction To the Climate System

August 26-September 9. The South Central Climate Adaptation Science Center at the University of Oklahoma will offer four short courses that will provide an integrative understanding of the components of the climate system. The courses are free and online, so anyone from anywhere may participate! You will have the opportunity to learn from climate experts at OU and our partner institutions. Upon successful completion of a short course, you will receive a personalized certificate. Short courses may be taken individually, or as any combination of the four being offered. Interested in learning more and to register visit:

https://docs.google.com/forms/d/e/1FAIpQLSeLBvYg9vhgYPTBU3vMSYTJ1SDQBLRYsOBp9i7BOt1HxfWbjA/view_form

Summit: United South and Eastern Tribes Climate Resilience Summit

August 27-29, Verona, NY. Tribal experts and partners will come together to share knowledge and best practices in building climate change resilience within our South and Eastern Tribal Nations. Presenters and facilitators will include Tribal Nations with climate adaptation plans, local practitioners in resilience building, and partners from the Northeast and Southeast Climate Adaptation Science Centers. Register by August 19 at

<https://www.cvent.com/c/express/619641b0-21a4-4b7a-a45b-5dae64e02262>

September

Webinar: Actions to Reduce Risk in a Changing Climate: Findings from the Fourth National Climate Assessment

September 3, 12pm EDT. NOAA and the U.S. Global Change Research Program present a OneNOAA Science Seminar Series highlighting findings from the Fourth National Climate Assessment. All webinars will be available at www.globalchange.gov/engage/webinars. For more, contact Katie Reeves (kreeves@usgcrp.gov) or Tracy Gill (Tracy.Gill@noaa.gov) or visit www.nodc.noaa.gov/seminars/.

Webinar Series: Tribal Climate & Health Adaptation: Intro to Changing Exposures & Impacts, Temperature Extremes

September 3, 9am, PST. 1st & 3rd Tuesday of the month from Aug 6 – Dec, 17, 2019. FREE Interactive Training. This training will summarize the latest data and literature on the exposures and impacts of climate change that may impact the health of tribal community members. It will also describe how to identify and select appropriate strategies to address these exposures and impacts. For more information visit <http://ped.palatribe.com/tcha-webinar/> and to register visit <https://www.eventbrite.com/e/tribal-climate-health-adaptation-webinar-series-tickets-64677368751>

Workshop: Mobilizing Indigenous and Local Knowledge Solutions: Addressing Climate Impacts and Vulnerabilities

September 3-5, Georgetown, Guyana. Like other Small Island Developing States (SIDS) regions, the Caribbean is already feeling the impacts of climate change, including more extreme weather, rising sea levels, coastal erosion, salination of drinking water, coral bleaching and death, ocean acidification and other ecosystemic and biological impacts. For more information visit: <https://en.unesco.org/conference/lik-climate-caribbean>

Symposium: Tribal Resilience and Climate Change Symposium

September 9-12, Tahoe City, CA. Topics to be explored from a Tribal Perspective: Climate Change Outreach and Education, Resilience Planning, Resource Conservation, TEK and Adaptation Strategies, Strengthening Food Systems and Human Health. The Symposium is for Tribal Environmental and Natural Resource staff only. This is a retreat style Symposium and participants are expected to attend the entire Symposium. Participation is limited to a maximum of two individuals per Tribe. All meals and lodging are included for approved participants only. Space is limited. To register for this event please contact Ginny Hatch at ginny.hatch@washoetribe.us or contact by phone at (775) 265-8680 x 11004. For questions contact Susane.Jamerson@washoetribe.us or at (775) 265-8680.

Short Course: Managing for a Changing Climate: Climate Models, Downscaling, & Assessments

September 10-30. The South Central Climate Adaptation Science Center at the University of Oklahoma will offer four short courses that will provide an integrative understanding of the components of the climate system. The courses are free and online, so anyone from anywhere may participate! You will have the opportunity to learn from climate experts at OU and our partner institutions. Upon successful completion of a short course, you will receive a personalized certificate. Short courses may be taken individually, or as any combination of the four being offered. Interested in learning more and to register visit: https://docs.google.com/forms/d/e/1FAIpQLSeLByVg9vhgYPTBU3vMSYTJ1SDQBLyRsOBp9i7BOt1HxWbjA/view_form

Webinar Series: Tribal Climate & Health Adaptation: Wildfire, Drought

September 17, 9am, PST. FREE Interactive Training. This training will summarize the latest data and literature on the exposures and impacts of climate change that may impact the health of tribal community members. It will also describe how to identify and select appropriate strategies to address these exposures and impacts. For more information visit <http://ped.palatribe.com/tcha-webinar/> and to register visit <https://www.eventbrite.com/e/tribal-climate-health-adaptation-webinar-series-tickets-64677368751>

Conference: 8th Annual Tribal Water Law Conference

September 26-27, Scottsdale, AZ. Join us in 2019 at CLE International's 8th annual Tribal Water Law Conference! This program brings together the preeminent experts in the field. You will hear from Tribes, local and federal government representatives, attorneys, consultants and other skilled professionals in this jam-packed, two-day program at the luxurious Hilton Resort & Villas in Scottsdale. For more information visit: http://www.cvent.com/events/tribal-water-law-conference/event-summary-056585f0d3ea440da9b1f37bc76e8016.aspx?RefID=from%20www.cle.com&utm_source=WRRC+Summer+Wave%2C+Vol.+7%2C+Issue+2+%285%2F31%2F19%29+&utm_campaign=WW-5-3119&utm_medium=email

October**Webinar Series: Tribal Climate & Health Adaptation: Melting Ice & Sea Level Rise, Storms & Flooding**

October 1, 9am, PST. This training will summarize the latest data and literature on the exposures and impacts of climate change that may impact the health of tribal community members. It will also describe how to identify and select appropriate strategies to address these exposures and impacts. For more information visit <http://ped.palatribe.com/tcha-webinar/> and to register visit <https://www.eventbrite.com/e/tribal-climate-health-adaptation-webinar-series-tickets-64677368751>

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

October 1-21. The South Central Climate Adaptation Science Center at the University of Oklahoma will offer four short courses that will provide an integrative understanding of the components of the climate system. The courses are free and online, so anyone from anywhere may participate! You will have the opportunity to learn from climate experts at OU and our partner institutions. Upon successful completion of a short course, you will receive a personalized certificate. Short courses may be taken individually, or as any combination of the four being offered. Interested in learning more and to register visit: https://docs.google.com/forms/d/e/1FAIpQLSeLByVg9vhgYPTBU3vMSYTJ1SDQBLyRsOBp9i7BOt1HxWbjA/view_form

Conference: 10th Annual Northwest Climate Conference

October 8-10, Portland, OR. The Northwest Climate Conference provides a unique opportunity to learn from and connect with a diverse community of experts fostering a more climate resilient Northwest. The event brings together practitioners, scientists, tribal communities, and decision-makers to share knowledge, ideas, and best practices related to climate change science, impacts, and adaptation in the Pacific Northwest. Topics include drought, wildfire, extreme events, coastal flooding, human and ecosystem health, and resiliency planning. For more information visit: <https://www.nwclimateconference.org/>.

Webinar Series: Tribal Climate & Health Adaptation: Vulnerability Assessments Part 1

October 15, 9am, PST. This training will summarize the latest data and literature on the exposures and impacts of climate change that may impact the health of tribal community members. It will also describe how to identify and select appropriate strategies to address these exposures and impacts. For more information visit <http://ped.palatribe.com/tcha-webinar/> and to register visit <https://www.eventbrite.com/e/tribal-climate-health-adaptation-webinar-series-tickets-64677368751>

Short Course: Managing for a Changing Climate: Physical Impacts of Climate Change & Adaptation Strategies

October 22-November 25. The South Central Climate Adaptation Science Center at the University of Oklahoma will offer four short courses that will provide an integrative understanding of the components of the climate system. The courses are free and online, so anyone from anywhere may participate! You will have the opportunity to learn from climate experts at OU and our partner institutions. Upon successful completion of a short course, you will receive a personalized certificate. Short courses may be taken individually, or as any combination of the four being offered. Interested in learning more and to register visit:

https://docs.google.com/forms/d/e/1FAIpQLSeLByVg9vhqYPTBU3vMSYTJ1SDQBLYRsOBp9i7BOt1HxfWbjA/view_form

November

Webinar Series: Tribal Climate & Health Adaptation: Vulnerability Assessments Part 2

November 5, 9am, PST. This training will summarize the latest data and literature on the exposures and impacts of climate change that may impact the health of tribal community members. It will also describe how to identify and select appropriate strategies to address these exposures and impacts. For more information visit <http://ped.palatribe.com/tcha-webinar/> and to register visit <https://www.eventbrite.com/e/tribal-climate-health-adaptation-webinar-series-tickets-64677368751>

Symposium: Southeast CASC Regional Science Symposium: Sharing Science to Support Climate Adaptation

November 13-15, New Orleans, LA. More details and registration information coming soon! This event is intended for: Researchers and managers working in the southeastern U.S., including the U.S. Caribbean, on climate impacts and adaptation for fish, wildlife, habitat, cultural resources; Decision makers and practitioners from state fish and wildlife agencies, federal organizations, Tribes and tribal organizations, NGOs. Updates will be posted to Regional Science Symposium webpage at https://globalchange.ncsu.edu/save-the-date-southeast-casc-regional-science-symposium-13-15-november-2019/?utm_source=Merged+Syposium+and+Newsletter+Lists&utm_campaign=51bb48ad1a-EMAIL_CAMPAIGN_2019_03_26_05_03_COPY_02&utm_medium=email&utm_term=0_bd5faaf92a-51bb48ad1a-123497021

Meeting: 2019 Office of Indian Energy Program Review

November 18-22, Denver, CO. The U.S. Department of Energy Office of Indian Energy holds annual Program Review meetings to provide an opportunity for tribes and Alaska Native villages to share their successes and best practices. Visit the [Archived Program Reviews page](#) to view Program Reviews prior to 2010. More details to come for this event. Please check back at <https://www.energy.gov/indianenergy/projects/program-review> for new information.

Webinar Series: Tribal Climate & Health Adaptation: Adaptation Plans Part 1

November 19, 9am, PST. This training will summarize the latest data and literature on the exposures and impacts of climate change that may impact the health of tribal community members. It will also describe how to identify and select appropriate strategies to address these exposures and impacts. For more information visit <http://ped.palatribe.com/tcha-webinar/> and to register visit <https://www.eventbrite.com/e/tribal-climate-health-adaptation-webinar-series-tickets-64677368751>

December

Webinar Series: Tribal Climate & Health Adaptation: Adaptation Plans Part 2

December 3, 9am, PST. This training will summarize the latest data and literature on the exposures and impacts of climate change that may impact the health of tribal community members. It will also describe how to identify and select appropriate strategies to address these exposures and impacts. For more information visit <http://ped.palatribe.com/tcha-webinar/> and to register visit <https://www.eventbrite.com/e/tribal-climate-health-adaptation-webinar-series-tickets-64677368751>

Webinar Series: Tribal Climate & Health Adaptation: Implementation/Evaluation

December 17, 9am, PST. This training will summarize the latest data and literature on the exposures and impacts of climate change that may impact the health of tribal community members. It will also describe how to identify and select appropriate strategies to address these exposures and impacts. For more information visit <http://ped.palatribe.com/tcha-webinar/> and to register visit <https://www.eventbrite.com/e/tribal-climate-health-adaptation-webinar-series-tickets-64677368751>

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