
Pacific Northwest Tribal Climate Change Network:

Email Bulletin – February 19, 2021

Meeting Notes and Announcements

Cascadia Climate Adaptation Strategy. <https://cascadiapartnerforum.org/cascadia-climate-adaptation-strategy>
Meade Krosby with the University of Washington Climate Impacts Group and the Northwest Climate Adaptation Science Center and Gwen Bridge with Gwen Bridge Consulting gave a presentation on the Cascadia Climate Adaptation Strategy. To view the PowerPoint Presentation, [click here](#).

“The Cascadia Partner Forum envisions a region where our environment is resilient to the impacts of climate change, where residents with diverse life experiences and values— rural and urban communities, landowners, Native Tribes and First Nations, policy-makers, natural resource and economic development decision-makers—understand the dynamic nature of the Cascadia landscape and are working together to conserve connected networks of lands and waters, their diversity, natural functioning and ability to adapt, so that native fish and wildlife and people have flexible options far into the future.” The core focus of the Cascadia Climate Adaptation Strategy is on the montane regions along the Cascades, and the scope extends into the lowlands, both west (Puget Sound coast) and east (shrub steppe region, not including the core of the Columbia Basin). The Cascadia Climate Adaptation Strategy has five key elements:

- Capacity
- Coordination
- Motivation
- Authority
- Fundraising

The Strategy includes principles for Indigenous Engagement, based on the philosophy that, *“First Nations and Tribes hold important information about climate change, Tribes have interest in climate change However Tribes have the political, sovereign, and legal authorities and the vision, to move this plan from concept to action.”* Some of the specific principles presented include responsibility, reciprocity, relevance, relationality and funding. Currently there is a Strategy Core Team and three working groups. Several call participants had questions regarding the Strategy, including how responsive the strategy will be to changing priorities, specifically those that pertain to issues like public health and food security. Meade said that the Strategy is currently focused on natural systems, but they are seeking feedback and can think more about how human systems interface with the Strategy. Meade mentioned that they are working on securing funds for Tribal participants in the working groups. If you are interested in participating in one of the working groups or in learning more about the Strategy, you can contact Meade at mkrosby@uw.edu or Gwen at gwen@gwenbridge.com.

Tribal Climate Resilience Program 2021 Notice of Funding Opportunity. Proposal Deadline: **Friday, April 23, 2021, by 6:00 pm Pacific.** The Bureau of Indian Affairs is pleased to announce the availability of funding through the Tribal Climate Resilience Program (Program). The Program will provide funding for tribal activities that support tribal adaptation and resilience planning, ocean and coastal management planning, and relocation, managed retreat, or protect-in-place planning and design activities for coastal and riverine communities. The Program aims to support Tribal Nations that are working toward climate adaptation planning and need information for management decisions that affect tribal treaty and trust resources, economies, infrastructure, and human health and welfare. The solicitation is for federally-recognized tribes and tribal organizations* (as defined by 25 U.S.C. Section 5304(1)). Other entities may participate as sub-grantees. While both Federally-recognized tribes and tribal organizations are eligible for funding through this solicitation, tribal organization proposals will be reviewed and ranked separately from tribal proposals. The solicitation is available on [grants.gov](https://www.grants.gov), named [TEMP-11663](#). Please see the [BIA Tribal Resilience Program site](#) for more information (fillable

cover pages, fillable application forms for Categories 3, 5, 6, 8, and 9, FAQs, helpful regional contacts, summaries of previous awards, etc.).

CATEGORIES OF AVAILABLE FUNDING IN 2021 - There are nine total award categories.

Adaptation Planning (Categories 1-3)

Category 1. Trainings and Workshops (maximum: \$150,000)

Category 2. Adaptation Planning (maximum: \$150,000)

Category 3. Travel Support for Adaptation Planning (maximum: \$15,000)

Ocean and Coastal Management Planning (Categories 4-5)

Category 4. Ocean and Coastal Management Planning (maximum: \$150,000)

Category 5. Travel Support for Ocean & Coastal (maximum: \$15,000)

Capacity Building (Category 6)

Category 6. Capacity Building for Scoping Efforts to Support future Category 2 Proposal Development (maximum: \$65,000)

Relocation, Managed Retreat, or Protect-in-Place Planning (Category 7)

Category 7. Planning for Relocation, Managed Retreat, or Protect-in-Place Activities for Coastal and Riverine Communities (maximum: \$150,000)

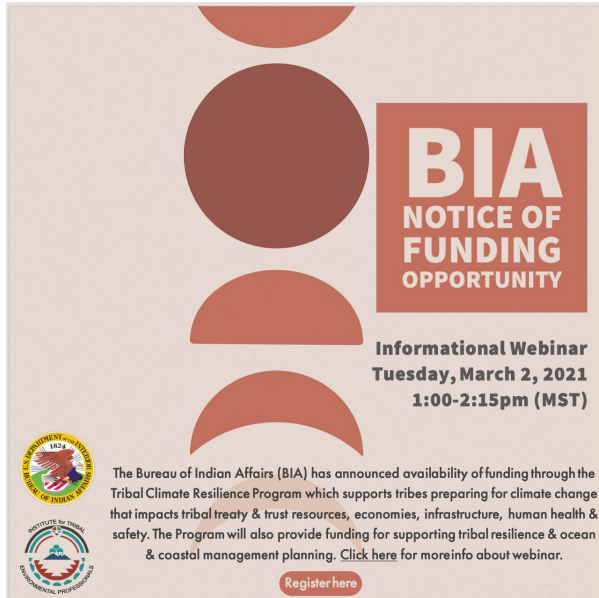
Internships and Youth Engagement (Categories 8-9)

Category 8. Internships (maximum: \$50,000)

Category 9. Youth Engagement (maximum: \$50,000)

Additional details, including evaluation criteria, are described in the Notice of Funding Opportunity (i.e., Request for Proposals or Solicitation). Proposal Deadline: Friday, April 23, 2021, by 5:00 p.m. Alaska Time / 9 p.m. Eastern Time. This year, proposals must be submitted through [Grants.gov](https://www.grants.gov). For questions about how to apply to [Grants.gov](https://www.grants.gov), see <https://www.grants.gov/web/grants/applicants/apply-for-grants.html>. For questions about the BIA Tribal Climate Resilience Program: resilience.funding@bia.gov. For potential support in developing a strong application, contact your regional Tribal Climate Resilience Liaisons listed here: https://www.bia.gov/sites/bia.gov/files/assets/bia/ots/tcrp/TRP_Contacts.pdf

- Tuesday, March 2, 2021. 12 pm Pacific. BIA/ITEP Webinar on the Notice of Funding Opportunity (NOFO). Please see the information regarding the upcoming webinar featuring the Bureau of Indian Affairs (BIA) [Tribal Climate Resilience Program](#). This informational webinar will provide details about available funding for Tribal activities that support Tribal climate adaptation and resilience planning, ocean and coastal management planning, and relocation, managed retreat, or protect-in-place planning and design activities for coastal and riverine communities. Register today to join us to learn more about this funding opportunity.
 - [Webinar Announcement](#)
 - [Webinar Registration](#)



NCAI Action Alert. Support the Confirmation of Congresswoman Debra Haaland as Secretary of the Interior. Confirmation Hearing Set for Tuesday, February 23, 2021. The confirmation hearing for Congresswoman Debra Haaland (Pueblo of Laguna) for her nomination as Secretary of the U.S. Department of the Interior is scheduled for Tuesday, February 23, 2021 at 9:30 a.m. EST. NCAI will be hosting a virtual watch party in conjunction with our [Executive Council Winter Session](#). [Read the full announcement from the U.S. Senate Energy & Natural Resources Committee](#). NCAI has prepared a toolkit and template letter for tribal leaders who want to support Congresswoman Haaland's confirmation. In addition, we encourage you to sign on to a National Tribal Leaders' sign on letter that will be transmitted to the Committee. Contact your Senators today and let them know you support the confirmation of Representative Haaland as Secretary of the Interior.

- [DOWNLOAD TEMPLATE LETTER](#)
- [DOWNLOAD NCAI TOOLKIT](#)
- [SIGN ON TO NATIONAL TRIBAL LEADERS' LETTER](#)
- [READ NCAI'S LETTER OF SUPPORT](#)

The Northwest in Transition. Stefanie Krantz shared that Representative Mike Simpson of Idaho is seeking comments on this concept: <https://simpson.house.gov/salmon/>. Congressman Simpson has released a framework for reimagining the Northwest energy landscape and recovering critically endangered salmon populations. For the last three years, he and his staff have held over 300 meetings with stakeholders, tribes, elected representatives and other interests trying to understand and break down this issue. Comments can be sent to Simpson.concept@mail.house.gov.

Call for Applications. 2021 Southwest Adaptation Forum. **The deadline to submit applications is March 17th, 2021.** Applications are now open for the 2021 Southwest Adaptation Forum on April 6th - 8th, 2021. Apply today! The 2021 Southwest Adaptation Forum will virtually convene leaders, practitioners, and researchers from across the Southwest to explore efforts that are advancing climate change adaptation, and includes hands-on activities, networking, and professional training. <https://www.swaf2021.org/>

National Tribal Leadership Climate Change Summit - Virtual Sessions. The next session will focus on youth empowerment and is tentatively scheduled for April 1, 2021. This will also be followed by a Tribal Youth Empowerment session on April 6th (<http://atnitribes.org/climatechange/ts/youth/>). More information about these sessions can be found here: <http://atnitribes.org/climatechange/ts/>. A registration link is coming soon! The Affiliated Tribes of NW Indians (ATNI), National Congress of American Indians (NCAI), United South and Eastern Tribes (USET), and Pacific Northwest Tribes are hosting a series of virtual sessions as part of the National Tribal Leadership Climate Change Summit. The Summit is convening Tribal Leaders, youth, and staff from Tribal Nations, First Nations, and Indigenous communities worldwide and will begin with a series of virtual sessions focused on critical climate change topics. Session 1 (October 2020) focused on climate policy and Session 2 focused on tribal climate resilience. The third session is scheduled for March 2021 and will focus on empowering youth. All sessions are recorded and available here: <http://atnitribes.org/climatechange/ts/>.

COVID-19 Resources and updates

- **National Congress of American Indians - Indian Country Resources Coronavirus (COVID-19).** NCAI's COVID-19 Resource Center shares critical information, resources, and updates with tribal nations, communities, and leaders as they respond to the pandemic and address its many impacts. This weekly broadcast highlights the latest key additions to the resource center. <http://www.ncai.org/Covid-19>
- **Environmental Protection Agency Indoor Air and COVID-19 Webpage:** <https://www.epa.gov/coronavirus/indoor-air-and-coronavirus-covid-19>.
 - [Indoor Air in Homes and Coronavirus \(COVID-19\)](#)
 - [Ventilation and Coronavirus \(COVID-19\)](#)
 - [Air Cleaners, HVAC Filters and Coronavirus \(COVID-19\)](#)
 - [Additional Measures to Address COVID-19 in Public Indoor Spaces](#)
 - [COVID-19, Wildfires, and Indoor Air Quality](#)
 - [Science and Technical Resources related to Indoor Air and Coronavirus \(COVID-19\)](#)
 - [Indoor Air and COVID-19 Key References and Publications](#)
- **Indian Health Service COVID-19 Updates.** The Indian Health Service is posting updates and resources about COVID-19 at <https://www.ihs.gov/coronavirus/news/>.
- **COVID-19 Funding for Tribes. Center for Disease Control.** <https://www.cdc.gov/tribal/cooperative-agreements/covid-19.html>
- **USDA Coronavirus Resources.** <https://www.usda.gov/coronavirus>
- National Wildfire Coordinating Group [COVID-19 Prevention & management during wildfire operations](#)
- [Association of Fire Ecology COVID-19 wildland fire resources](#)
- [Forest Stewards Guild Wildfire Resilience and COVID-19.](#)
- **The Impact of COVID-19 on the Lives of Indigenous Women and Their Strategies to Deal with the Pandemic.** The spread of the COVID-19 pandemic has exposed the structural historical inequalities experienced by Indigenous Women, being ranked among the groups most at risk due to the particular conditions in which indigenous peoples live. Click [here](#) to review the International Indigenous Women Forum documentation of the impacts of COVID-19 on the lives on Indigenous women.

Funding Opportunities

For a searchable grant database, visit the Tribal Climate Change Funding Guide here: <https://tribalclimateguide.uoregon.edu/>.

Native Small Business Grant Opportunity. NCAI is offering business stabilization grants in the amount of \$5,000 each to a total of 28 selected Native-owned small businesses that have been severely impacted by the curtailing of commercial activity caused by the COVID-19 pandemic. **APPLICATION DEADLINE: Rolling application process;**

application window will remain open until all funds are exhausted. For more information about this grant opportunity, eligibility criteria, and how to apply, please [click here](#).

NOAA/Coast Survey: Matching Fund Opportunity for Hydrographic Surveys and Request for Partnership Proposals. Proposals due: February 26, 2021. A new pilot program is being offered by NOAA and Coast Survey that will provide matching funds to non-Federal partners for eligible hydrographic surveying and mapping related activities. Eligible activities are those that can demonstrably contribute to NOAA and Coast Survey goals related to ocean and lake mapping. NOAA will provide matching funds and Coast Survey will leverage existing processes to execute the mapping project. In addition to identifying immediate partners, Coast Survey would like to gauge general interest in this pilot project: therefore, those who may apply in future years are highly encouraged to submit a statement of interest. For more information, [click here](#).

Funding Opportunity: Call for Statements of Interest for Climate Adaptation Science Center (CASC) Research. Deadline: March 19, 2021. The Alaska, Midwest, North Central, Northeast, Northwest, Pacific Islands, South Central, Southeast, and Southwest regional CASCs are moving climate adaptation science forward through their Fiscal Year 2022 Funding Opportunity that will provide nearly \$10 million for research to address high-priority natural or cultural resource management issues that can benefit from climate-informed planning and adaptation management. Informational Webinars will be held throughout the month of February, starting with a national network meeting webinar on Tuesday, February 16. To learn more, visit: <https://www.usgs.gov/center-news/funding-opportunity-casc-now-accepting-fy-2022-statements-interest/>.

[Media, Publications and Online Resources](#)

Native Americans 'Left Out in the Cold' Under Trump Press Biden for Action. After showing political clout in the 2020 election, tribal communities are hoping for more attention and money to address their long-running problems with poverty, health care and other issues. *February 18, 2021. By Mark Walker.* <https://www.nytimes.com/2021/02/18/us/politics/native-americans-biden.html?action=click&module=Top%20Stories&pgtype=Homepage>

Tracking Biden's environmental actions. February 17, 2021. By Juliet Eilperin, Braxy Denis and John Muyskens. <https://www.washingtonpost.com/graphics/2021/climate-environment/biden-climate-environment-actions/>

How Biden's Environmental Justice Order Might Work. The President ordered 40 percent of the benefits from federal climate action go to disadvantaged communities. *February 16, 2021. By Jean Chernick. E & E News.* <https://www.scientificamerican.com/article/how-bidens-environmental-justice-order-might-work/>.

'America, send us your ideas': Biden pledges to protect 30% of US lands by 2030. To reach this conservation goal, the country will have to conserve more than 400m acres of land and waterways in the next 10 years. *By Hannah Chinn. February 17, 2021.* <https://www.theguardian.com/environment/2021/feb/17/biden-public-lands-waters-30-by-30>

Young Champions of the Earth – Run4Salmon. Indigenous-led conservation. UN Environment Program. <https://www.unep.org/youngchampions/bio/2020/north-america/niria-alicia-garcia>

Native American traditional knowledge played key role in Wisconsin's Climate Change Report. *January 26, 2021. By Frank Vaisvilas. Green Bay Press-Gazette.* <https://www.greenbaypressgazette.com/story/news/2021/01/26/wisconsin-climate-change-report-incorporates-indigenous-knowledge/6675933002/>.

Navajo Woman chosen to head U.S. Indian Energy. *January 25, 2021. By Joaquin Estus.* <https://indiancountrytoday.com/news/navajo-woman-chosen-to-head-us-indian-energy-OBsFLusLtUKXCqacurNliA>.

Indigenous Organization Helps Prepare for Climate Change on Public Lands. *January 18, 2021. By Kevin Bunch.* <https://ijc.org/en/indigenous-organization-helps-prepare-climate-change-public-lands>.

Klamath Tribes reclaim ancestral lands. *January 14, 2021. Press release from the Klamath Tribes of Oregon.*
<https://klamathfallsnews.squarespace.com/news/klamath-tribes-reclaim-ancestral-lands>.

Climate Science Alliance – Explore the New Climate Kids Connects Portal. Climate Kids Connects provides online resources that support youth, educators, and the community at large. Videos featuring guided climate science, storytelling, and art activities (in English and Spanish), core curriculum trainings for teachers, and more can be found on the new website. To explore the site, click [here](#).

Job, Fellowship and Scholarship Opportunities

Harvard Forest Summer Research Program in Ecology. Deadline: February 19, 2021. The 2021 Harvard Forest Summer Research Program is now accepting applications from a diverse group of undergraduate students to join an immersive research experience. The 2021 program will be VIRTUAL. This 11-week paid virtual internship (May 24 – August 6, 2021) is coordinated through Harvard's world-class ecological research hub in Petersham, Massachusetts. The program seeks to support students in conducting research and building their careers through Research, Education, and Community. Undergraduates from all U.S. colleges and universities are eligible to apply but must be U.S. Citizens or Resident Aliens. Form more information, [click here](#).

Scholarship for Advancing Diversity in the Geoscience Profession. Deadline: February 21, 2021.

This scholarship from the American Geosciences Institute is a \$5,000 award to support geoscience graduate studies by a U.S. citizen or permanent resident who self-identifies as a member of an underrepresented minority (Black, Indigenous, or Person of Color) and will be entering a graduate geoscience program for the first time. To be eligible, a student must have completed, or be within two semesters of completing, a bachelor's degree at a recognized geoscience program and not actively enrolled in a graduate program. To learn more, see <https://www.americangeosciences.org/workforce/agi-scholarship-advancing-diversity-geoscience-profession>.

2021 Student Summer Internship Opportunity: Institute for Tribal Environmental Professionals (ITEP).

Deadline: February 26, 2021. ITEP offers two types of internships for Native American and other college students. The student summer internship (SSI) program is a 8-week program for college students and the short internship (SIP) program is a 20 to 40 hour long internship program for high school and college students. The purpose of the internship programs is for students to gain hands-on skills with EPA or other governmental and tribal environmental offices. The internship programs are funded by a grant from the U.S. Environmental Protection Agency. Contact EEOP-INTERN@nau.edu for more information. For more information, visit: <http://www7.nau.edu/itep/main/eeop/Internships/>

CAICE Summer Undergraduate Research Opportunity. Deadline: February 28, 2021. CAICE (NSF Center for Aerosol Impacts on the Chemistry of the Environment) operates a summer research program for undergraduate students during each summer, with participants at multiple universities associated with the Center. Benefits include: Mentoring from top CAICE faculty, postdocs & graduate students in the CAICE network, placement in a CAICE lab site, receive a minimum stipend of \$5000, and others. 8 - 10 week program. Application open to undergraduates with an interest in chemistry who would like to participate in cutting edge CAICE research. Women, students from underrepresented groups, and military veterans are strongly encouraged to apply. For more information, visit: <https://caice.ucsd.edu/summer-undergraduate-research/>.

CAICE Summer Undergraduate Science Communication Fellowship. Deadline: February 28, 2021. The 2021 CAICE Summer Undergraduate Science Communication Fellowship is a pilot program that aims to combine summer undergraduate research experiences with robust communication. Participants will be paired with a faculty mentor and work closely with researchers from multiple universities to create engaging and accessible

science communication that conveys CAISE science to diverse audiences. For more information, visit: <https://caice.ucsd.edu/get-involved-2/summer-undergraduate-science-communication-fellowship/>.

NW CASC 2021-2022 Research Fellowship Program. Deadline: March 15, 2021. The Northwest Climate Adaptation Science Center (NW CASC) invites proposals for its 2021-2022 [Research Fellowship Program](#) from graduate students at University of Washington (UW), Boise State University (BSU), Oregon State University (OSU), University of Montana (UM), Washington State University (WSU) and Western Washington University (WWU) and postdoctoral scholars at BSU, OSU, UM, WSU, and WWU (this fellowship cannot support postdocs at UW). The NW CASC Fellowship Program supports research related to climate adaptation for Northwest natural and cultural resource management and provides training in the principles and practices of developing decision-relevant science. Funding will be available as early as Fall Term 2021, to support research performed during the 2021-2022 academic year. A webinar on the application process will be on February 4, 2021. For more information, visit: <https://nwcasc.uw.edu/about/funding-opportunities/>.

CASC Network to Offer Postdoctoral Fellows Positions on the Future of Fire. The CASC Network is offering seven postdoctoral research positions as part of the Climate Adaptation Postdoctoral Fellows (CAPF) Program. This program aims to provide management-relevant research on the effects of climate change to fish, wildlife and ecosystems through a nationally coordinated postdoctoral research program. For more information, visit: https://www.usgs.gov/ecosystems/climate-adaptation-science-centers/science/casc-network-climate-adaptation-postdoctoral?qt-science_center_objects=0#qt-science_center_objects.

Alaska CASC to Award Scholarships to Inaugural Climate Scholars Program. The Climate Scholars Program at the University of Alaska Fairbanks offers unique opportunities for field-based, hands-on learning and research. With support from the Alaska CASC, this is the first opportunity of its kind for undergraduates at UAF to have the opportunity to study climate change in the "Last Frontier". Applications will be reviewed and accepted on an ongoing basis. For more information, visit: <https://uaf.edu/honors/climate-scholars/#:~:text=Study%20climate%20change%20in%20the,hands%20on%20learning%20and%20research>.

Upcoming Events

February 22, 2021. 12:30 pm Pacific. SCIENCE x Invasive Tree Pests and Pathogens Webinar. This webinar will include: Threats, Impacts, and Management of Invasive Species With Highlights on Developing an Integrated Management Program for Emerald Ash Borer, presented by Therese Poland; What is a Hemlock woolly adelgid, and who is eating them? presented by Nathan Havill; and Forest Health Monitoring for Pests and Pathogens of Trees, presented by Ryan Blaedow. To register, click here: <https://usfs.adobeconnect.com/dv-500/>.

February 22, 2021. 11:00 am - 12:00 pm Pacific. Pacific Northwest DEWS February Drought & Climate Outlook. The Pacific Northwest Drought Early Warning System (PNW DEWS) Drought & Climate Outlook Webinar is part of a series of regular drought and climate outlook webinars designed to provide stakeholders and other interested parties in the region with timely information on current drought status and impacts, as well as a preview of current and developing climatic events (i.e., El Niño and La Niña). For more information and to register, visit: <https://www.drought.gov/events/pacific-northwest-dews-february-drought-climate-outlook>.

February 23, 2021. 12:30 pm Pacific. SCIENCE x Invasive Tree Diseases Webinar. This webinar will include: White pine blister rust in a changing climate: investigating complex interactions to develop strategies to restore and sustain mountain-top ecosystems, presented by [Anna Schoettle](#). Patterns and Impacts of Rapid Ohia Death in Hawaii's Native Forests: Science-Based Management Approaches, presented by [Flint Hughes](#). Thirty Years of Sudden Oak Death: The Consequences of a Pathogen Invasion, presented by [Susan Frankel](#). To register, click here: <https://usfs.adobeconnect.com/dv-500/>.

February 23, 2021. 1:00 pm Pacific. Mapping and Monitoring Reservoirs with Satellite Observations Training. Part 3: Introduction and Demonstration of Water Level Height and Bathymetry Data for Lakes and Reservoirs Using Laser

Altimetry. For more information and register, view:

https://appliedsciences.nasa.gov/join-mission/training/english/mapping-and-monitoring-lakes-and-reservoirs-satellite-observations?utm_source=social&utm_medium=ext&utm_campaign=Reservoir-21.

February 24, 10:00 am - 11:30 am Pacific. Northeast Indigenous Climate Resiliency Network Quarterly Meeting. Join the Zoom meeting at: <https://zoom.us/j/92190767002?pwd=OFhTTmNpR3FVaGJRZDNHTIJUaUFPuT09>. Meeting ID: 921 9076 7002. Passcode: 870185.

February 24, 2021. 11:00 am Pacific. National Adaptation Forum Heat Stress Series. Community-Based Solutions to Heat in Urban Communities. This virtual Forum series will explore solutions to increasing temperature being implemented around the county, brought to you by EcoAdapt. There will be three sessions, this session will feature Philadelphia, Pennsylvania's Beat the Heat initiative along with the Nature's Cooling Systems project in Phoenix, Arizona to provide insight into planning and implementing strategies to address extreme heat dangers at the neighborhood level. For more information and to register for all three sessions, visit, <https://www.nationaladaptationforum.org/virtual-forum>.

February 24, 2021. 12:30 pm Pacific. SCIENCE x Invasive Aquatics. This webinar will include: Biosecurity Priorities to Forestall Amphibian Chytrid Transmission, presented by [Deanna 'Dede' Olson](#). Detecting Aquatic Invaders with eDNA: Challenges and Opportunities, presented by [Brooke Penaluna](#). Recognized and Unrecognized Effects of Invasive Bivalves on Native Freshwater Mussels, presented by [Wendell Haag](#). To register, click here: <https://usfs.adobeconnect.com/dv-500/>.

February 25, 2021. 12:30 pm Pacific. SCIENCE x Invasive Animals & Animal Pathogens. This webinar will include: A One Health (Ecosystems Health) Approach to Managing Invasive Animals and Animal Pathogens, presented by [Patrice 'Patty' Klein](#). White Nose Syndrome, presented by [Sybill Amelon](#). Barred Owl Range Expansion in western North America: Ecological Impacts and Conservation Lessons, presented by [John Keane](#). To register, click here: <https://usfs.adobeconnect.com/dv-500/>.

February 26, 2021. 12:30 pm Pacific. SCIENCE x Invasive Plants This webinar will include: Cheatgrass Impacts and Management Options in Western U.S. Ecosystems, presented by [Ali Urza](#) and [Brice Hanberry](#). Impacts of Invasive Cogongrass on Private and Public land: Prevention and Control Strategies, presented by [Rima Lucardi](#). Ventenata Invasion in the Western U.S.: Using Remote Sensing & Model Output to Understand Invasion Risk, presented by [Becky K. Kerns](#). To register, click here: <https://usfs.adobeconnect.com/dv-500/>.

March 2, 2021. 6:00 - 7:30 pm Pacific. Fire in Pacific Northwest: Past, Present, and Future. Session #1 Fire in the Forest: A Natural Process and Unnatural Changes. Learn about the natural role that fires play in forested landscapes and ecosystems in the region, and how climate change and human management has altered those roles, from the use of fire by indigenous people, to systematic fire suppression. Presenters: Jessica Halofsky, Ph.D. —Research scientist, University of Washington, School of Environmental and Forest Sciences and U.S. Forest Service, Pacific Northwest Research Station. For more information and to register, visit: <https://www.greatoldbroads.org/fire-in-pacific-northwest-forests-past-present-and-future/>.

March 2-3, 2021. Virtual Forum: Implementing and Scaling Resilient Solutions in Coastal California. The University of California, Irvine (UCI) will connect coastal planners, managers, practitioners, funders, and decision-makers to share lessons learned and strategies for building coastal resilience.

March 3, 2021. 1:00 pm Pacific. Ecological Drought National Webinar Series. Ecological Drought: Drought, Wildfire, Recovery. Drought can exacerbate wildfire frequency, intensity, and severity. This webinar will explore wildfire management approaches based on ecological principles, including those that embed traditional ecological knowledge. This four-part webinar series, taking place in February and March seeks to raise awareness of ecological drought, share actions that strengthen ecosystem resilience and mitigate the impacts of droughts, and discuss preparedness. The series is co-hosted by NIDIS and the U.S. Geological Survey (USGS) National Climate Adaptation and Science Center, with Expert Speakers from the research Community, tribal nations, and government agencies. Register at: <https://register.gotowebinar.com/register/7028902270906768655>

March 4, 2021. 11:00 am Pacific. National Adaptation Forum Heat Stress Series - Rural Heat Challenges and Interventions. This virtual Forum series will explore solutions to increasing temperature being implemented around the county, brought to you by EcoAdapt. There will be three sessions, this session will highlight the North Carolina Division of Public Health's analysis of heat-related illness in rural communities, and rural-focused heat stress interventions carried out by Sustainable Sandhills in North Carolina, health threats faced by farm workers, and Public Citizen's potential Federal policy solutions to protect workers from heat. For more information and to register for all three sessions, visit, <https://www.nationaladaptationforum.org/virtual-forum>.

March 9, 2021. 6:00 - 7:30 pm Pacific. Fire in Pacific Northwest: Past, Present, and Future: Session # 2 When the Smoke Clears: Natural Regeneration and Post-Fire Management in our Forests. Explore how fires lead to natural

regeneration of forests, how human management after a fire impacts this process, and what implications this has for biodiversity, natural ecosystems, and our climate. Presenters: Monica L. Bond, Ph.D.—Wildlife biologist, biodiversity activist & principal scientist for Wild Nature Institute. For more information and to register, visit: <https://www.greatoldroads.org/fire-in-pacific-northwest-forests-past-present-and-future/>.

March 10 - May 5, 2021. 9:00 am Pacific. Cross Boundary Fire Risk Mitigation Webinar Series: Moving from parcel risk assessments to building fire adapted communities webinar. This webinar series explores cross boundary fire risk mitigation and how natural resource managers can improve collaborative efforts that support and enable successful adaptation to wildfire among different land ownership and jurisdictions. This Series is sponsored by the USDA Forest Service, State and Private Forestry, and Rocky Mountain Research Station. To register, visit, <https://www.fs.usda.gov/rmrs/events/cross-boundary-fire-risk-mitigation-webinar-series>.

March 10, 2021. 11:00 am Pacific. National Adaptation Forum Heat Stress Series - Heat Stress on Species & Ecosystems. This virtual Forum series will explore solutions to increasing temperature being implemented around the country, brought to you by EcoAdapt. This is the last of the three sessions, this session will consider the effects of heat stress on a range of species and ecosystems across North America, including aquatic, terrestrial and marine habitats, and natural resources management strategies to adapt to these challenges to protect species as well as ecosystem services that support human communities. For more information and to register for all three sessions, visit, <https://www.nationaladaptationforum.org/virtual-forum>.

March 17, 2021. 12:00 pm - 1:00 pm Pacific. Ecological Drought National Webinar Series. Ecological Drought: Impacts on Coastal Ecosystems. This webinar will share recent research on drought impacts to coastal ecosystems and services. This webinar is the fourth in a four-part series that seeks to raise awareness of ecological drought, share actions that strengthen ecosystems resilience and mitigate the impacts of droughts, and discuss research and management needs for future drought planning and preparedness. The series is co-hosted by NOAA's NIDIS and the USGS National Climate Adaptation Science Center. Register at: <https://register.gotowebinar.com/register/2255096561498743823>

March 30, 2021. 5:00 – 6:30 pm Pacific. The Next 25-Years: Building a Climate-Resilient Future. Hosted by the University of Washington Climate Impacts Group. What do we need to do to prepare our communities, economies and ecosystems for the climate of the future? This event will bring together scientists, community members and partners to imagine, brainstorm and plan for the next 25 years. <https://www.cvent.com/c/express/ac4373fa-d7d7-4fd9-9cce-6018380c9650>

April 5, 2021 - May 28, 2021. Adaptation Planning and Practices for Outdoor Recreation Training. Free 8-week training using the Adaptation Workbook. NIACS is hosting a new session of our popular Adaptation Planning and Practices Course! This session will focus on outdoor recreation, and it's open to participants from across the country. The class will begin on April 5 and run through May 28. Expect one class meeting per week for 8 weeks, with homework in between the sessions. Participants will use the online Adaptation Workbook to develop their own custom climate adaptation projects. Coaching and support are provided along the entire process, with lots of opportunities to discuss your ideas with other course participants. To learn more, visit: <https://forestadaptation.org/RecAppo>.

April 6-8, 2021. 11th Annual Northwest Climate Conference. The 11th annual Northwest Climate Conference will be held virtually Tuesday, Originally scheduled for October 2020, but delayed due to COVID-19, this will be the first NW Climate Conference to be held entirely online. Please mark your calendars for the conference and stay tuned for registration information. The [NW Climate Conference](#) brings together more than 500 researchers and practitioners from around the region to discuss scientific results, challenges and solutions related to the impacts of climate on people, natural resources and infrastructure in the Northwest. The conference also provides a forum for presenting emerging policy and management goals, as well as information needs related to regional climate impacts and adaptation. <https://www.nwclimateconference.org/>

April 6-8, 2021. Virtual 2021 Southwest Adaptation Forum - Southwest Climate Adaptation Science Center. SWAF 2021 will bring together leaders, practitioners, and researchers from across the Southwest to explore efforts that are advancing climate change adaptation, including hands-on activities, networking, and professional training. For more information, click here: <https://www.climatesciencealliance.org/swaf>.

April 19-21, 2021. Shifting Seasons Summit: Sharing Adaptation and Resilience Knowledge Across Indigenous Communities. Menominee Casino Resort Convention Center. The Shifting Seasons Summit is a gathering that focuses on climate resilience planning and implementation within Tribes and across Tribal ceded territories in the Northeast Region. This summit will include network-building opportunities and initiatives developed outside of the Northeast by capacity-building organizations, academic institutions and tribal nations. For more information, click here: <http://www.nicrn.org/2021-shifting-seasons-summit.html>

May 23-28, 2021. ATNI Tribal Climate Camp. Anchorage, AK. The Affiliated Tribes of Northwest Indians, U.S. Bureau of Indian Affairs, Michigan State University, Portland State University's Institute for Tribal Government, Chugach Regional

Resources Commission, and the Northwest Climate Adaptation Science Center are collaboratively offering the Tribal Climate Camp (TCC) to support teams of tribal leaders, climate change coordinators, planners, and program managers to build skills, gather information, and develop tribal policy needed to address climate change impacts. For more information, [click here](#).

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

- [PNW Tribal Climate Change Project](#)
- [PNW Tribal Climate Change Online Funding Guide](#)
- [BIA Tribal Climate Resilience Program](#)
- [BIA Tribal Climate Resilience Resource Guide](#)
- [Institute for Tribal Environmental Professionals \(ITEP\) Tribes and Climate Change Program](#)
- [Fourth National Climate Assessment- Volume II: Impacts, Risks, and Adaptation in the United States](#)
 - [Indigenous Peoples Terminology for the Fourth National Climate Assessment](#)
 - [Chapter 24 - Northwest](#)
 - [Chapter 15 – Tribes and Indigenous Peoples](#)
- [Second State of the Carbon Cycle Report \(SOCCR2\):](#)
- [Local Environmental Observer \(LEO\) Network](#)
- [Columbia River Intertribal Fish Commission](#)
- [Northwest Indian Fisheries Commission](#)
- [Affiliated Tribes of Northwest Indians](#)
- [Alaska Native Tribal Health Consortium LEO Network](#)
- [Northeast Indigenous Climate Resilience Network.](#)
- [Georgetown Adaptation Clearinghouse](#)
- [U.S. Climate Resilience Toolkit](#)
- [Northwest Climate Adaptation Science Center](#)
- [USDA Climate Hubs](#)
- [Northwest Climate Hub](#)
- [North Pacific LCC](#)
- [Great Basin LCC](#)
- [Great Northern LCC](#)
- [Environmental Protection Agency \(EPA\) Clean Energy Program](#)
- [Environmental Protection Agency \(EPA\) Climate Change Research](#)
- [Climate Adaptation Knowledge Exchange](#)
- [USDA Forest Service Climate Change Resource Center](#)
- [Climate Smart Land Network](#)
- [University of Washington Climate Impacts Group Building Tribal Capacity for Climate Change Vulnerability Assessment](#)
 - [Tribal Climate Tool](#)
 - [Tribal Vulnerability Assessment Resources](#)
- [Oregon Climate Change Resource Institute/Adaptation International Tribal Climate Adaptation Guidebook Version 1.0](#)

- [White House Climate Change Archives](#)