
Pacific Northwest Tribal Climate Change Network: Email Bulletin and Conference Call Notes – November 15, 2017

Call Participants

- Joseph Bonnell-Hall, Coeur d'Alene Tribe
- Haley Case-Scott, University of Oregon
- Mike Chang, Makah Tribe
- Stacy Clauson, Samish Indian Nation
- Jerry Gardner, Makah Tribe
- Eliza Ghitis, NW Indian Fisheries Commission
- Mike Grady, NOAA Fisheries
- Ryan Graves, BIA
- Keith Hatch, BIA NW Region
- Lynn Helbrecht, WA Dept. Fish & Wildlife
- Joe Hostler, Yurok Tribe
- Rob Jacob, Elk Valley Rancheria
- Chas Jones, Northwest Climate Science Center
- Shilpa Joshi, Renew Oregon
- Dana Krishland, EPA
- Kathy Lynn, University of Oregon
- Dennis Longknife, Fort Belknap Indian Community
- Mary Mahaffy, North Pacific LCC
- Amelia Marchand, Confederated Colville Tribes
- Micah McCarty, West Coast Regional Planning Body
- Gary Morishima, Quinault Indian Nation
- Don Motanic, Intertribal Timber Council
- Rachael Novak, Bureau of Indian Affairs
- Sascha Petersen, Adaptation International
- Holly Prendeville, NW Climate Hub
- Gabrielle Roesch McNalley, NW Climate Hub
- Michael Rosotto, Quileute Tribe
- Carlotta Whitecrane, Karuk Tribe
- Emily Wright, Cascadia Consulting
- Katie Wrubel, Makah Tribe

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Meeting Notes

December 13-14 2017 Tribes/First Nations Climate Summit, Tulalip Resort Casino

Hotel Reservations: Tulalip Resort Casino: <https://www.tulalipresortcasino.com/Resort>,

Reservations: [855-516-1090](tel:855-516-1090). Mention **ATNI Climate Summit** for special room rate.

The Tribes and First Nations Climate Summit is being convened by the Affiliated Tribes of Northwest Indians and the North Pacific LCC and hosted by the Tulalip Tribes. Tribes and First Nations in the Pacific Northwest have made great progress in observing and documenting environmental change on their homelands, but climate change is increasing at a pace that challenges important ways of life. First

peoples across the region are coming together this December to learn from previous projects and discuss how to continue climate change studies to provide the support needed to adapt and thrive for generations to come. More information is available here: [EVENT REGISTRATION](#) | [AGENDA \(DRAFT\)](#).

Tribal/First Nations Climate Change Summit - Call for Posters. The [Tribes and First Nations Climate Summit](#) is being convened by the Affiliated Tribes of Northwest Indians and the North Pacific LCC and hosted by the Tulalip Tribes December 13-14, 2017 at the Tulalip Casino Resort. On Thursday, December 13th there will be a poster session from 4:15 - 5:30 pm. If you would like to present a poster, please complete the online form by **Monday, November 20th**: <https://goo.gl/forms/mqJatIsYv6mi9Aq73>. Poster presenters must bring your poster to the event. At 4:15 pm, there will be a selected number of “Lightning” presentations focused on Resources for Tribal Climate Resilience. Summit organizers will select these presentations on the basis of the abstract. If you would like your presentation considered for a lightning presentation, please state that when submitting your poster abstract.

Questions and Discussion: Micah McCarty asked if there would be interest in having a sidebar at the summit on marine issues and ocean acidification. Katie Wrubel suggested she would be interested in attending. Kathy will share this idea with the conference organizers and coordinate with Micah.

[4th National Climate Assessment – Public Review Process](#)

The public draft of Volume II of NCA4, *Climate Change Impacts, Risks, and Adaptation in the United States*, is now available for public review and comment. **The deadline for providing comment is January 31, 2018.** USGCRP’s Review and Comment system for the Third Order Draft of NCA4 Vol. II can be accessed [HERE](#).

Rachael Novak with the Bureau of Indian Affairs Tribal Resilience program provided a presentation on the background of the USGCRP, previous tribal engagement in the National Climate Assessment, the Key Messages in the chapter on Indigenous Peoples, and the process for providing review and comments to the 4th National Climate Assessment. Joe asked if comments can be made by individuals or if they should be from an organization. Amelia asked if hard copy comments can be submitted. It is possible to download and create comments offline. Rachael provided the following information by email as follow-up on these questions:

- *Can organizations comment or just individuals?* Comments need to come from individuals to maintain transparency.
- *Can people mail in hard copies of comments rather than online for those that have less Internet accessibility?* Yes, they can email them to Susan Aragon-Long- (saragonlong@usgcrp.gov). They will be input via a spreadsheet and should have each submitters name. Susan will need these by 1/25/18 in order to have time to collate them. Hard copy comments can be mailed to: USGCRP (ATTN: NCA4 Public Comments), [1800 G Street, NW, Suite 9100](#), Washington, D.C. 20006
- *Is it appropriate to email out the chapters of interest to folks having problems accessing it online if they stress in the email that it is DRAFT?* Yes, if they can't access on-line and if it's clearly marked "DRAFT".

The Indigenous Peoples Chapter of the Fourth National Climate Assessment includes a link to an interactive mapping application that will continue to record new resilience actions as Tribes and Partners wish to report them to assist others in learning from their example. To report [IP Resilience Actions Map](#) issues or add new actions, use the [NCA IP Actions Map Feedback Form](#).

More information about the review of the NCA4 Indigenous Peoples Chapter, as well as the Resilience Actions Map can be found on the BIA Tribal Resilience Program: <https://www.bia.gov/bia/ots/tribal-resilience-program/nca>. Webinars providing background on the NCA as well as guidance and instructions on how to use the [Review & Comment](#) system are included in the event list below.

We will highlight the Northwest Chapter during the next PNW Tribal Climate Change Network call scheduled for Tuesday, December 12th at 10 am Pacific. Mike Chang emphasized the importance of elevating tribal issues in the National Climate Assessment by providing comments and feedback on various chapters in the National Climate Assessment. Sascha noted that all of the NCA4 chapters are available for review and comment on the [Review & Comment](#) system now, including the Northwest chapter.

Following are key links that Rachael mentioned during the presentation:

- National Climate Assessment/ USGCRP Products prior to NCA4
 - Native Peoples Native Homelands Climate Change Workshop I (1998): <https://downloads.globalchange.gov/nca/nca1/native.pdf>
 - Native Peoples Native Homelands Climate Change Workshop II (2009): <http://neptune.gsfc.nasa.gov/csb/index.php?section=278>
 - 3rd NCA – Chapter on Indigenous Peoples, Lands and Resources (2014): nca2014.globalchange.gov
 - Climate Change and Global Food Security (2015): https://www.usda.gov/oce/climate_change/FoodSecurity2015Assessment/FullAssessment.pdf
 - The impacts of climate change on human health (2016): health2016.globalchange.gov
- To Review and Comment on NCA4: <https://review.globalchange.gov>
- USGCRP Public Webinars
 - Nov 18, 3pm EST, Dec 6, 5pm EST, and Jan 16, 8pm EST - Webinar link: <https://icf.globalmeet.com/NCAProjectWebinar>
- BIA NCA Tribal Resilience page: <https://www.bia.gov/bia/ots/tribal-resilience-program/nca>
- Interactive Map of Tribal Climate Resilience Actions: <https://www.bia.gov/bia/ots/tribal-resilience-program/nca/>
- Indigenous Peoples Resilience Map: [Feedback Form](#)

Rachael also mentioned that the 2nd State of the Carbon Cycle Report is also available for review. **The deadline for providing comment is January 8, 2018.** USGCRP’s Review and Comment system for the SOCCR-2 draft can be accessed [HERE](#). The [Climate Science Special Report](#), Volume I of the Fourth National Climate Assessment (NCA4) is also now available and is focused on the physical science of climate change in the United States. The assessment was written by a team of America’s top experts in climate change science, including representatives from the Federal government, National laboratories, universities, and the private sector. It underwent six rounds of expert, technical review and serves as the foundation for an assessment of climate-related impacts, risks and adaptation, as reflected in NCA4 Vol. II. The *Climate Science Special Report* can be viewed on its interactive website at science2017.globalchange.gov.

[West Coast Regional Planning Body Meeting](#)

Micah McCarty presented on the upcoming [West Coast Regional Planning Body Meeting](#). “The West Coast Regional Planning Body (RPB) is a partnership between U.S. federal agencies, the three West Coast

states of Washington, Oregon and California, 13 federally-recognized tribal governments and the Pacific Fishery Management Council, focused on discussing existing and emerging uses of our ocean. The RPB provides a regular forum for government co-managers to communicate and collaborate around existing and emerging uses of the ocean along the West Coast. The full RPB supports this dialog for the full region, while sub-regional planning teams are in various stages of development to discuss more local scale ocean uses and needs. Over time, the RPB has an option to develop sub-regional and/or regional "ocean plans" that would be agreed to by the full membership. The plans are not binding or legally enforceable in any way, but are intended to help provide predictability and transparency about how government entities can effectively plan for managing our oceans."

<http://www.westcoastmarineplanning.org/>

The 2017 West Coast RPB Annual Meeting will take place December 5, 2017 at the Queen Mary in Long Beach, CA. The meeting will include updates on Federal Ocean Policy and West Coast State & Tribal Government Ocean issues, as well as discussions sub-regional planning, assessments, outreach and engagement. The agenda can be downloaded [here](#). Micah mentioned that the ATNI natural resource committee is working to form an ocean sub-committee and that this will be a topic at the January ATNI winter convention. Micah encouraged people to join the list serve for the West Coast Regional Planning Board. He discussed the need for more engagement with tribal representatives to see what priorities can be identified by tribes.

Micah shared the Call to Action from the International Alliance to Combat Ocean Acidification (<https://www.oaalliance.org/call-to-action/>). As listed on their website, The Call to Action identifies five goals:

1. Advance scientific understanding of ocean acidification.
2. Take meaningful actions to reduce causes of acidification.
3. Protect the environment and coastal communities from impacts of a changing ocean.
4. Expand public awareness and understanding of acidification.
5. Build sustained support for addressing this global problem.

Micah also shared a Facebook Page for the [West-Coast Tribal Partnership](#), which is intended to foster tribal engagement and improve inter-tribal coordination for enhanced Tribal / Inter-Tribal coordination among partnering governments along the West Coast.

Micah also shared that the Affiliated Tribes of Northwest Indians will host the 2nd Tribal Water Summit: *Identifying Tribal Water Priorities from Summit to Sea* in May 2018 at the University of Washington.

More information on that event is here: www.changingcurrents.org

Oregon carbon pricing bill (Clean Energy Jobs, SB 1070)

Shilpa Joshi with Renew Oregon presented a brief update on the [Clean Energy Jobs](#) bill. A summary of the bill is available here: <https://www.climatesolutions.org/article/1491111937-clean-energy-jobs-bill>.

Shilpa shared that partners on this bill have worked closely with legislators and wrapped up workgroups in Salem that provided an opportunity to bring together state holders across the state. They are working towards passing the bill next year's legislative session. The coalition has been working to reach out to Oregon Tribes in drafting the bill and Governor Brown's office will start a formal government-to-government consultation soon. During this discussion a question was asked as to whether there was anyone who could give an update on the [Washington Alliance for Jobs and Clean Energy](#). There will be a formal update on this initiative during the next Network call on December 12th at 10 am Pacific.

Announcements

American Indian College Fund Tribal College & University Research Journal (TCURJ) Call for Papers --- Volume III. The deadline for submission is **Tuesday, December 19th**. This Call for Papers goes out to current faculty at Tribal Colleges and Universities. Faculty may submit manuscripts as single-authored pieces or as co-authored pieces (with colleagues and/or with students). The TCU faculty member must be the first author on the manuscript. For more information, visit: <http://collegefund.org/research-and-programs/research/research-journals/> or contact Natalie Youngbull at Nyoungbull@collegefund.org.

Tribal Climate Change Adaptation Guidebook. Invitation to Review Pre-Release Version. This tribally-focused adaptation guidebook is intended to support tribes in addressing tribal priorities through climate change adaptation planning. Tribes at any stage in the adaptation process are invited and encouraged to review a pre-release version of the guidebook as a means to share your experiences and lessons learned with other tribes. The pre-release version of the guidebook will be available for review between November and March. If your tribe is interested in participating, contact Meghan Dalton, Oregon Climate Change Research Institute, (mdalton@coas.oregonstate.edu).

Deadline extension! Help advance the inclusion of indigenous and local knowledge (ILK) in the IPBES Global Assessment of Biodiversity and Ecosystem Services The deadline to fill the Call for Contributions on indigenous and local knowledge (ILK) for the IPBES Global Assessment of biodiversity and ecosystem services has been extended to **20 December 2017**. The ongoing IPBES [Global Assessment](#) is seeking inputs from experts on and representatives of indigenous peoples and local communities from around the world. The overall scope of the Global Assessment is to assess the status and trends about biodiversity and ecosystem services, the connections between biodiversity and ecosystem services and human well-being and the effectiveness of responses, including the Strategic Plan and its Aichi Biodiversity Targets. More information can be found [here](#)

Funding Opportunities

The online tribal climate change guide lists current and future funding opportunities here: <http://tribalclimateguide.uoregon.edu/>. Some selected grants are listed below.

Fertile Ground Grant Program. Deadline: December 19, 2017. Seeds of Native Health helps launch new grant program for health-focused advocacy. The new [Fertile Ground Grant Program](#) funds tribes, Native advocates, Native youth, and Native-led organizations to create sustainable community health improvements through nutrition and food sovereignty efforts. The grants of up to \$35,000 will provide support for:

- Native-led convenings to identify community health priorities
- Advocacy and policy strategies that address improving health outcomes
- Access to healthy food
- Food sovereignty work rooted in tradition, culture, and Indigenous knowledge

[Region 10 Tribal Environmental GAP Funding.](#) *Applications should be submitted by the date tribes negotiate with their Project Officers (sometime between March 2 and May 25). No GAP applications will be accepted after May 25, 2018.* The U.S. EPA, Region 10, Tribal Trust and Assistance Unit, is announcing the funding opportunity for Indian Environmental General Assistance Program (GAP) grant proposals from federally recognized tribal governments and intertribal consortia for work to be initiated in federal fiscal year (FY) 2019. EPA provides GAP financial and technical assistance to tribal governments and

intertribal consortia to assist tribes in planning, developing, and establishing the capacity to implement federal environmental programs administered by the EPA and to assist in implementation of tribal solid and hazardous waste programs in accordance with applicable provisions of law, including the Solid Waste Disposal Act (commonly known as the Resource Conservation and Recovery Act, or RCRA). EPA's GAP Guidance provides a consistent national framework for building tribal environmental program capacity under GAP and is designed to improve the management of GAP resources. **For questions about the application process** or grant requirements, contact one of our [GAP Project Officers](#).

Webinar Schedule. EPA Region 10 will host four webinars to discuss the FY19 Notice of Funding Availability for the Indian General Assistance Program. Please join us for a discussion of the following topics:

1. **Developing a GAP Work Plan** – Wednesday, Nov. 29, 1:30-2:30 AK Time (2:30-3:30 PST). For questions, contact [Michelle Davis](mailto:davis.michellelev@epa.gov) (davis.michellelev@epa.gov).
2. **Developing a GAP Budget** – Wednesday, Dec. 6, 1:30-2:30 AK Time (2:30-3:30 PST). For questions, contact [Santina Gay](mailto:gay.santina@epa.gov) (gay.santina@epa.gov).
3. **Tips and Forms** – Wednesday, Dec. 13, 1:30-2:30 AK Time (2:30-3:30 PST). For questions, contact [Susan Conbere](#).

To join the webinars:

- Visit EPA's online conferencing site: <http://epawebconferencing.acms.com/fy19nofa/>
- The conference call number is **866-299-3188**. The participant code is **907-271-5083**.

Job Opportunities

[EcoTrust Indigenous Fellow](#). Location: Portland, Oregon or Anchorage, AK, Anticipated Start Date: 01-03-2018, **Application Deadline: November 30, 2017**. Ecotrust invites American Indian community members who are either currently enrolled students, recent graduates, or have commensurate work experience to apply for the 2017-2018 Ecotrust Indigenous Fellowship opportunity. During a 4 to 6-month time period, the Fellow will participate in a career development experience that aligns with one or more of Ecotrust's program (Forestry, Food & Farms, Fisheries, Knowledge Systems) and/or functional teams (Communications, Finance/Operations, Development) based on the Fellow's academic background and professional interests. They will have an opportunity to work with Ecotrust to catalyze a shift toward more resilient communities, economies, and ecosystems.

[Director Indigenous Nations Studies Program, Portland State University](#). The Indigenous Nations Studies Program (INST) at Portland State University (PSU) invites applications from tenured senior scholars for the position of Director. PSU is situated in the heart of downtown Portland, Multnomah County, Oregon. Multnomah County rests on traditional homelands of the Multnomah, Kathlamet, Clackamas, bands of Chinook, Tualatin Kalapuya, Molalla and many other Tribes who made their homes along the Columbia River. The Multnomah were a band of Chinooks who lived in this area. PSU wishes to recognize that since time immemorial these have been the lands of the Indigenous peoples of this region. <https://jobs.hrc.pdx.edu/postings/24742/>

[NOAA UNDERGRADUATE SCHOLARSHIPS](#). **Applications due January 31, 2018**. NOAA is accepting applications for the Ernest F. Hollings Scholarship and the EPP Undergraduate Scholarship. Students who are current sophomores majoring in STEM fields that directly support NOAA's mission may apply. The scholarships provide \$19,000 in academic support and participants conduct research at a NOAA facility during two summer internships. Eligible students may apply to both programs with one online application due January 31. Community college students who are transferring to four year

institutions are also eligible to apply. <http://www.noaa.gov/office-education/scholarships>

[Tribal VISTA: Fort Peck Community College](#). Accepting Applications from 04/25/2017 to 10/27/2018.

The Great Plains Region and the Prairie Pothole Region face many climate change vulnerabilities. According to the EPA, changes in water availability will make agriculture irrigation more difficult and can threaten important wetland habitats. Moreover, warmer winters will effect seasonal growing cycles, which also impact the timing of tribal rituals and the sustainability of culturally important plants and animals. While the Fort Peck Office of Environmental Protection is aware of these vulnerabilities, the majority of their work focuses on monitoring and regulatory activities. The VISTA's role would help bring the capacity to develop the community based programming to combat the negative effects of climate change. The VISTA's strategic placement based in Fort Peck Community College would allow them to be more accessible to the people in the community. The educational programming the VISTA develops will address climate vulnerabilities by increasing community interest and increasing community awareness of the issues. <https://my.americorps.gov/mp/listing/viewListing.do?id=73732&fromSearch=true>

[Sapsik'wafá Teacher Education Program](#). A link to the application will be available **September 25, 2017, through January 15, 2018**. As a Sapsik'wafá Teacher Education Program applicant, you will be filling out a combination application with UOTeach and the Sapsik'wafá Teacher Education Program. Please see [UOTeach](#) for more information on the admissions process and eligibility requirements. Please contact us for guidance through the application process: Kelly LaChance, Assistant Program Director, sapsikwala@uoregon.edu ([link sends e-mail](#)), 541-346-2454. <https://education.uoregon.edu/sapsikwala-teacher-education-program/application-information>

Native American Interns Needed. Experiential Learning through Service International Experience with Indigenous Communities in Bolivia. Chiquitano school children, San Antonio, Lomerio, Bolivia. Needed Disciplines/Skills:

- Natural Sciences, Environmental sciences, Entomology, Biology/Ecology
- Anthropology, Social Sciences, Educational Sciences
- Geography, Political, Cultural, GIS, drones
- TEC Virtual educational tools/game development
- Artists, Illustrators

For more information, contact Dr. Wendy R. Townsend "Cross pollinating Knowledge Systems" TCD-University of Florida, wendytownsend@gmail.com.

Media, Online Resources and Publications

Keystone Pipeline leaks 210,000 gallons of oil in South Dakota. *By Mayra Cuevas and Steve Almasy, CNN. November 16, 2017.* <http://www.cnn.com/2017/11/16/us/keystone-pipeline-leak/index.html>

Ninth Circuit to hear oral argument in Juliana V. United States. *Our Children's Trust. November 16, 2017.* There has been a significant development in the constitutional climate change lawsuit so far successfully prosecuted by 21 youth plaintiffs: the Ninth Circuit Court of Appeals has decided to hear oral argument over whether the Trump Administration can evade trial currently set for February 5, 2018. Oral arguments will be heard before the Ninth Circuit Court of Appeals in San Francisco on December 11, 2017. [Full press release available here.](#)

Upcoming Events

November 17, 2017. 1 pm Pacific. Webinar: [Alaska Region Climate Outlook Briefing](#). The tools and techniques for making monthly and season scale climate forecasts are rapidly changing, with the potential to provide useful forecasts at the month and longer range. This presentation will review recent climate conditions around Alaska, review some forecast tools and finish up the Climate Prediction Center's forecast for December and the winter season.

November 18, 2017. 12:00 pm Pacific. Webinar: [National Climate Assessment Public Review Process](#). Public review period for the Volume II of the 4th National Climate Assessment: NCA4, Climate Change Impacts, Risks and Adaptation in the United States is open to public comment. Webinars providing background on the NCA as well as guidance and instructions on how to use the Review & Comment system at review.globalchange.gov. No registration is required. To access the webinar(s), please use the following call-in information: **Webinar link: <https://icf.globalmeet.com/NCAProjectWebinar> US callers: (605) 475-5606 Passcode: 9663019548#.**

November 29, 2017. 12:30 pm Pacific. Webinar: [What are the impacts of climate change on maple syrup production and can we manage for them?](#) Speaker: Joshua Rapp, UMass Amherst and Selena Ahmed, Montana State University

November 30, 2017. 1 pm Pacific. Webinar: [Explore the newly released Conservation Efforts Database 2.0](#). The [Conservation Efforts Database version 2.0](#) (CED) is a spatially-explicit database and conservation planning tool that is designed to quantify the benefit of, and illustrate the unprecedented investments in sagebrush conservation. The US Fish and Wildlife Service, Great Northern LCC, and US Geological Survey have worked closely with all 11 sage-grouse States and other partners, to solicit input and make adjustments to improve the CED based on that feedback. To log-in to the webinar, visit: <http://www.mymeetings.com/nc/join.php?sigKey=mymeetings&i=747646150&p=&t=c> or: Call-in number: 866-453-7752; Passcode: 21236998#.

December 5, 2017. [West Coast Regional Planning Body 2017 Annual Meeting](#). The Queen Mary. Long Beach, CA. Please join us for our annual in-person meeting of tribal, state and federal government representatives to discuss coordination, policy and planning for our ocean and coasts along the West Coast of the U.S. The meeting is free and open to the public, with public comment opportunities included. You are also invited to join us at a reception to immediately follow the meeting.

December 5, 2017. 10 am Pacific. Webinar: [A Rapid Vulnerability Assessment Tool](#). This [webinar](#) will feature the Commission for Environmental Cooperation North American Marine Protected Area Rapid Vulnerability Assessment Tool. This tool designed in a collaborative process that included EcoAdapt, the Commission on Environmental Cooperation and west coast of North America marine protected area managers and scientists. The tool was designed to help marine protected area managers evaluate the implications of climate change for the habitats of their sites. The tool, available in English and Spanish, has three parts (a user guide, a set of blank worksheets, and a booklet containing sample completed worksheets), which used together allow marine protected area managers conduct a rapid vulnerability assessment and adaptation strategy development process.

December 6, 2017. 2:00 pm Pacific. Webinar: [National Climate Assessment Public Review Process](#). Public review period for the Volume II of the 4th National Climate Assessment: NCA4, Climate Change Impacts, Risks and Adaptation in the United States is open to public comment. Webinars providing

background on the NCA as well as guidance and instructions on how to use the Review & Comment system at review.globalchange.gov. No registration is required. To access the webinar(s), please use the following call-in information: **Webinar link:** <https://icf.globalmeet.com/NCAProjectWebinar> **US callers:** (605) 475-5606 **Passcode:** 9663019548#.

December 6-8, 2017. [Cultures Under Water: Climate Impacts on Tribal Cultural Heritage](#). Tempe, Arizona. This conference will build on the discussions of climate change, adaptation, and traditional knowledge by focusing specifically on climate impacts on tribal cultural heritage. We will bring together tribal leadership and members, scientists, scholars, attorneys and activists to discuss climate change threats and challenges faced by indigenous communities. Register: <http://law.asu.edu/climateimpacts>. Contact: Jennifer Williams at jennifer.h.williams@asu.edu.

December 11-15, 2017. Session on Indigenous and Climate Science Partnerships: Developing Pathways from Knowledge to Collaborative Actions at the Annual AGU meeting, New Orleans, LA. This session convenes participants from several programs in the United States that foster collaboration between scientific and Indigenous communities predicated on the premise that drawing from a diverse array of backgrounds leads to more and better solutions to adaptation challenges. Speakers will address the processes, methods, and benefits of Indigenous-scientific collaboration. Speaker abstracts are available online here: <https://agu.confex.com/agu/fm17/preliminaryview.cgi/Session26837>

December 13, 2017. Workshop: Climate Change Assessment for Tribal Lands in the PNW, Spokane, WA. <https://www.eventbrite.com/o/northwest-fire-science-consortium-14848741661>

December 13-14, 2017. [Tribes and First Nations Climate Summit](#). Tulalip Resort Casino, Tulalip, WA. Tribes and First Nations in the Pacific Northwest have made great progress in observing and documenting environmental change on their homelands, but climate change is increasing at a pace that challenges important ways of life. So First peoples across the region are coming together this December to learn from previous projects and discuss how to continue climate change studies to provide the support needed to adapt and thrive for generations to come. [EVENT REGISTRATION](#) | [AGENDA \(DRAFT\)](#)

December 15, 2017. [Focus on Sugar Maple Distribution and Maple Syrup Production at the 2017 FEMC Conference](#). University of Vermont. <https://www.uvm.edu/femc/cooperative/conference/2017/agenda>

January 10 – March 21, 2018. [Climate Academy](#). This 8 week online course is designed to cover the fundamentals of climate science, provide an overview of tools and resources for climate adaptation, and increase climate literacy and communication skills. The course is designed to encourage networking among conservation professionals engaged in the management of fish, wildlife, habitat and cultural resources and provides participants an opportunity to interact with experts as they address case studies across multiple habitat types.

January 15 – March 2, 2018. [Forest Adaptation Planning and Practices Online Training](#). (Seven 1.5-hour online sessions). The popular Forest Adaptation Planning and Practices training will be available as an online, seven-week course for natural resource professionals working in New England and New York. Participants will use the [Adaptation Workbook](#) to create their own adaptation plans.

January 18, 2018. 11 am Pacific. Webinar: [Air Quality Planning for Wildland Smoke](#). This webinar series will provide attendees with an understanding of the impacts of wildland smoke on the health of tribal communities and strategies to minimize exposure. The first webinar will explore the components of

wildland smoke, how much is produced under different circumstances, and how the components of smoke affect our health. The webinars will be recorded. **All webinars must be completed prior to the in-person workshop (scheduled for Boise, Idaho, March 27-28, 2018).** The in-person workshop application will be available in mid-December on the [ITEP website](#).

January 18, 2017. 5:00 pm Pacific. Webinar: [National Climate Assessment Public Review Process](#). Public review period for the Volume II of the 4th National Climate Assessment: NCA4, Climate Change Impacts, Risks and Adaptation in the United States is open to public comment. Webinars providing background on the NCA as well as guidance and instructions on how to use the Review & Comment system at [review.globalchange.gov](#). No registration is required. To access the webinar(s), please use the following call-in information: **Webinar link: <https://icf.globalmeet.com/NCAProjectWebinar> US callers: (605) 475-5606 Passcode: 9663019548#.**

January 18-22, 2017. ATNI Winter Convention. DoubleTree by Hilton Portland, OR. [Register here](#)

February 1, 2018. 11 am Pacific. [Air Quality Planning for Wildland Smoke](#). This webinar series will provide attendees with an understanding of the impacts of wildland smoke on the health of tribal communities and strategies to minimize exposure. This webinar will look at modeling of smoke movement, the role of air resources advisors (ARAs), and the use of portable monitors or sensors to collect data. The webinars will be recorded. **All webinars must be completed prior to the in-person workshop (scheduled for Boise, Idaho, March 27-28, 2018).** The in-person workshop application will be available in mid-December on the [ITEP website](#).

February 15, 2017. 11 am Pacific. Webinar: [Air Quality Planning for Wildland Smoke](#). This webinar series will provide attendees with an understanding of the impacts of wildland smoke on the health of tribal communities and strategies to minimize exposure. Gathering and disseminating information to our communities before, during, and after a smoke event is critical to ensuring the health and safety of our communities. This webinar will provide tips and strategies for finding information, using social media, and developing outreach products. The webinars are free and will be recorded. **All webinars must be completed prior to the in-person workshop (scheduled for Boise, Idaho, March 27-28, 2018).** The in-person workshop application will be available in mid-December on the [ITEP website](#).

February 27 - March 1, 2018. Reno, NV. [Wildland Urban Interface Conference](#). The conference offers hands-on training and interactive sessions designed to address the challenges of wildland fire and the challenges facing the people responsible for protecting local forests or educating landowners and your community about the importance of land management.

March 1, 2017. 11 am Pacific. Webinar: [Air Quality Planning for Wildland Smoke](#). This webinar series will provide attendees with an understanding of the impacts of wildland smoke on the health of tribal communities and strategies to minimize exposure. In this webinar, Tribal presenters will describe how smoke events impacted their communities, how utilizing monitoring data during a wildfire can help identify health risks, and how tribes can better prepare for wildfire seasons. The webinars will be recorded. **All webinars must be completed prior to the in-person workshop (scheduled for Boise, Idaho, March 27-28, 2018).** The in-person workshop application will be available in mid-December on the [ITEP website](#).

March 15, 2017. 11 am Pacific. Webinar: [Air Quality Planning for Wildland Smoke](#). This webinar series will provide attendees with an understanding of the impacts of wildland smoke on the health of tribal

communities and strategies to minimize exposure. With smoke events increasingly common, the final webinar will provide information on preparing homes for smoke intrusion, using air scrubbers, creating community cleaner-air shelters, and protecting the health of pets and livestock. The webinars will be recorded. **All webinars must be completed prior to the in-person workshop (scheduled for Boise, Idaho, March 27-28, 2018).** The in-person workshop application will be available in mid-December on the [ITEP website](#).

March 26-29, 2018. Reno, NV. [National Cohesive Wildland Fire Management Strategy Workshop— Making a Difference; Building Capacity, Improving Preparedness, and Learning From Experience](#). The workshop will focus on building capacity in practitioners, improving preparedness to meet challenges, and to provide opportunities to learn from past experience in order to inspire collaboration and create operational support.

April 30 – May 2, 2018. [2018 Local Solutions: Eastern Climate Preparedness Conference](#). Manchester, NH. This conference will cover a range of climate preparedness and resiliency issues such as: sea level rise, urban heat, and both coastal and inland flooding issues.

QUICK LINKS

- [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](#)
- [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. <http://www.nicrn.org/>](#)
- [University of Washington Climate Impacts Group](#)
- [University of Washington Tribal Climate Technical Support Desk](#)
- [Georgetown Adaptation Clearinghouse](#)
- [U.S. Climate Resilience Toolkit](#)
- [Northwest Climate Science Center](#)
- [North Pacific LCC](#)
- [Great Basin LCC](#)
- [Great Northern LCC](#)
- [USDA Climate Hubs](#)

- [Northwest Climate Hub](#)
- [EPA Climate Change Programs](#)
- [Climate Adaptation Knowledge Exchange](#)
- [USDA Forest Service Climate Change Resource Center](#)
- [Climate Smart Land Network](#)
- [White House Climate Change Archives](#)

NEWSLETTERS AND CALENDARS

- [ITEP Newsletter](#)
- [ITEP Tribes and Climate Change Calendar](#)
- [NW Climate Magazine](#)
- [NW CSC Calendar](#)
- [North Pacific LCC Calendar](#)