
Pacific Northwest Tribal Climate Change Network: Email Bulletin and Conference Call Notes – August 16, 2017

Call Participants

- Lucas Bair, Spokane Tribe
- Willie Begay, USDA Forest Service
- Marnie Boardman, Washington Dept. of Health
- Joseph Bonnell-Hall, Coeur d'Alene Tribe
- Kelsey Bunting, ATNI Climate Intern/BIA
- Danae Burke, ATNI Climate Intern/CRITFC
- Haley Case-Scott, ATNI Climate intern/PNW TCCP
- Mike Chang, Makah Tribe
- Malia Collins, ATNI Intern/BIA
- Meghan Dalton, Oregon Climate Change Research Institute
- Lisa DeBruyckere, Creative Resource Strategies
- Helena Deswood, SW Climate Hub
- Tom Downey, Siletz Tribe
- Kathy Ferge, NRCS Oregon
- Meagan Flier, Grand Ronde Tribe
- Laura Gephart, Columbia River Intertribal Fish Commission
- Eliza Ghitis, Northwest Indian Fisheries Commission
- Scott Hauser, Upper Snake River Tribes Foundation
- Lynn Helbecht, WA Fish and Wildlife
- Melanie Hess, ATNI intern/North Pacific LCC
- Chas Jones, Northwest Climate Science Center
- Linda Kruger, USDA Forest Service PNWRS
- Kathy Lynn, University of Oregon
- John Mankowski, North Pacific LCC
- Amelia Marchand, Colville Tribes
- Gary Morishima, Quinault Indian Nation
- Don Motanic, Intertribal Timber Council
- Miakah Nix, University of Oregon
- Sherry Palacios, NASA Ames Research Center
- Sascha Peterson, Adaptation International
- Lynn Rae, UA/Native Nations Climate Adaptation Program
- David Redhorse, Bureau of Indian Affairs NW
- Barrett Ristroph, Fairbanks Alaska
- Cynthia Rossi, Point no Point Treaty Council
- Steve Spencer, Shoalwater Bay Tribe
- Tom Schlosser, Tribal Attorney
- Kim Stone, Great Lakes Indian Fish & Wildlife Commission
- Bea Van Horne, USDA Northwest Climate Hub
- Kenneth Weitzel, Central Council Tlingit & Haida Indian Tribes of Alaska

2017 PNW TCCP Calls:

- September 20, 2017
- October 18, 2017
- November 15, 2017
- December 13, 2017

Conference Call Information:

Call Time: 10:00 am Pacific
 Toll-Free: 888-844-9904
 Access Code: 5064716
 Adobe Connect web meeting:
<http://oregonstate.adobeconnect.com/tribalclimate>

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Meeting Notes

Pacific Northwest Coast Conservation Blueprint – A Landscape Conservation Design

Lisa DeBruyckere, with Creative Resource Strategies, presented on the development of the Pacific Northwest Coast Conservation Blueprint, which is focused on aligning conservation efforts to achieve landscape-scale goals. A brief description of the initiative from the [project website](#) states:

The Lower Columbia River and adjacent coastal regions of Oregon and Washington contain a rich diversity of natural and cultural resources managed by a complex array of tribal sovereign nations, federal/state/local agencies, non-government conservation organizations, landowners, stakeholders and others. But our region lacks a current, comprehensive, landscape-scale blueprint that can be used to drive and aligning conservation efforts to achieve landscape-scale goals in response to stressors, such as climate change, energy development, and land/water use practices. In response to this need, the North Pacific Landscape Conservation Cooperative and US Fish and Wildlife Service Region 1 has initiated a Landscape Conservation Design initiative for the Lower Columbia River and adjacent coastal shorelines of Oregon and Washington – “**Pacific Northwest Coast Landscape Conservation Design**.” This partner-driven, multi-stakeholder effort is an integrated, collaborative, and holistic process that is grounded in the interdisciplinary science of landscape ecology, the mission-oriented science of conservation biology, and the art of design. The process results in a science-based, spatially-explicit product that identifies targets of interest to partners, articulates measurable objectives; assesses current and projected landscape patterns and processes; and identifies a desired future condition, conservation and development trade-offs, and implementation strategies.

Lisa shared that this project has engaged more than 100 organizations, including tribes from around the region to develop protection, restoration, and policy-making strategies that connect small ecosystem management organizations into larger regional collaborations. The goal is aimed at connecting landscapes across jurisdictions. The geographic scope for this initiative is focused on the outer coast of the Pacific Northwest (Oregon and Washington). Strategy teams are currently working to synthesize identified “Conservation Targets”, and are encouraging tribal participation in order to spatially map priority concern areas. The PNW Coast Conservation Blueprint LCD has set the dates for its upcoming 3-hour meetings in Olympia, Portland, and Newport:

August 29 Meeting #1: Olympia, WA 9:00am–Noon, Meeting #2: Olympia, WA 1:00pm–4:00pm
August 30 Meeting #3: Portland, OR 9:00am–Noon, Meeting #4: Portland, OR 1:00pm–4:00pm
August 31 Meeting #5: Newport, OR 9:00am–Noon, Meeting #6: Newport, OR 1:00pm–4:00pm

The deadline to register for the workshops is August 18 and you can do so online:

<https://form.jotformpro.com/72056668811966>. You can also email Lisa for details about the workshops at lisad@createstrat.com.

The report on the Pacific Northwest Coast Landscape Conservation Design – A Landscape Conservation Design for the Lower Columbia River and Outer Coasts of Oregon and Washington, is available here: http://columbiacoastblueprint.org/wp-content/uploads/2016/06/Pacific-Northwest-Coast-Landscape-Conservation-Design_June15-1.pdf.

The North Pacific Landscape Conservation Cooperative has provided direct support to this effort, and the leadership team includes tribal sovereign nations, non-profit organizations, and the Washington Department of Fish and Wildlife. John Mankowski shared that the North Pacific LCC is contacting tribes within the region addressed in the blueprint to share information and engage tribes in the process. For more information, visit: <http://columbiacoastblueprint.org/> or contact Lisa DeBruyckere (lisad@createstrat.com) or John Mankowski (john_mankowski@fws.gov).

Tribal Adaptation Guidebook

Meghan Dalton, with the Oregon Climate Change Research Institute (OCCRI), presented on the development of the Tribal Adaptation Guidebook that supports tribes in addressing tribal priorities through climate adaptation planning, and opportunities for tribes to participate in a beta-test of the draft guidebook. Information about development of the Guidebook, which is supported by a grant from the North Pacific Landscape Conservation Cooperative to OCCRI and how to participate in the beta-testing process has been provided by OCCRI here:

The Tribal Adaptation Guidebook is opening an invitation to tribes to participate in a six-month, self-directed beta testing of a draft adaptation guidebook being developed specifically for Tribal communities. The North Pacific Landscape Conservation Cooperative awarded a grant to the Oregon Climate Change Research Institute (OCCRI) at Oregon State University to produce a Tribally-focused adaptation guidebook to support Tribes in addressing Tribal priorities through climate adaptation planning. Partners include the University of Oregon's Pacific Northwest Tribal Climate Change Project, Adaptation International, Quinault Indian Nation, and the Confederated Tribes of Siletz Indians. In this guidebook, special attention will be given to Traditional Knowledges and Tribal sovereignty.

Version 0 of the adaptation guidebook will be available late-October 2017 for interested Tribes to use in their respective adaptation planning efforts through April 2018. We encourage participation from Tribes that are just starting the adaptation process as well as Tribes that have engaged in various degrees of adaptation planning. We know that adaptation planning is ongoing and specific planning efforts need not be completed within the beta-testing period in order to participate.

During the beta-testing period, we plan to schedule periodic check-in calls with each participating Tribe at times convenient for the Tribe in order to receive feedback on what is and is not working with the guidebook and to hear suggestions for improvement. We will revise Version 0 based on this feedback. During the check-in calls, we will not ask for any Tribe's Traditional Knowledges. A draft of Version 1 will be available for review in summer 2018 before the final Version 1 is publically released in 2018. If you are interested in this opportunity to add your input and help create a road-tested next generation guidebook for Tribal adaptation, please contact Meghan Dalton (mdalton@coas.oregonstate.edu).

Gary asked how, as circumstances, conditions, actions, and information are constantly changing, what are plans for keeping the guidebook current? Meghan said that while the draft used for beta-testing will be static, the project team is working towards an online version of the document that is easier to update.

Kathy asked about how the Guidebook will connect with resources focused on climate vulnerability assessments in the region that may be helpful for tribal climate adaptation? Meghan shared that the guidebook team is working to ensure that existing resources and entities that address climate change vulnerability are directly linked within the Guidebook, including the University of Washington's Climate Impacts Group Tribal Climate Technical Support Desk, the Institute for Tribal Environmental Professional, and Tribal Climate Camp and other organizations that are working on climate change assessments and planning in the region. For more information, contact Meghan Dalton mdalton@coas.oregonstate.edu.

Climate Change and Health

Marnie Boardman with Washington Department of Health provided a brief update on the Northwest Climate and Health Network. The Network is providing a way to connect public health practitioners across the Pacific Northwest in the climate health arena. Topics have included food security, safety, and

opportunities for carbon reduction and transition to plant-based diets. The network is designed to connect different people from different health organizations and jurisdictions to exchange information. The next call is scheduled for October 24 at 2 pm. Register here:

<https://register.gotowebinar.com/register/6902295675841721090>. The website to sign up for the NW Climate and Health Network list serve is: <http://listsmart.osl.state.or.us/mailman/listinfo/nw-climate-and-health>.

Gary asked if the network is dealing with heat stress and vulnerable tribal populations. There are a few publications that address heat stress, and is it is an area that will become increasingly important. Marnie will look for relevant resources that can be shared with the PNW Tribal Climate Change Network and on the online tribal climate change guide.

Kathy also shared the website on the Oregon Health Authority's webpage that features [Voices of the Confederated Tribes of Warm Springs](#), a series of short videos was developed during a three-day digital storytelling workshop with members of the Confederated Tribes of Warm Springs. The pilot project explored digital storytelling as a method for building partnerships, understanding local climate impacts and raising awareness about community concerns. Each story touches on different cultural traditions and resources already threatened by climate change and the impacts on individual and community identity and wellbeing. Each participant developed their own narrative and chose their own visuals to portray their story. The videos represent multigenerational tribal voices.

[Washington Smoke Information](#): This site is an effort by county, state, and Federal agencies and Indian Tribes to coordinate and aggregate information for Washington communities affected by smoke from wildland fires. The information is posted here by the agencies themselves while volunteers built and maintain the page. <http://wasmoke.blogspot.com/>

[Oregon Smoke Information](#): This site is an effort by many city, county, tribal, state and federal agencies to coordinate and aggregate information for Oregon communities affected by wildfire smoke. The information is posted here by the agencies themselves while volunteers built and are maintaining the page. <https://oregonsmoke.blogspot.com/>

Willie Begay shared that due to the severity of the fire season, coordination is on-going with the State of Oregon Department of Environmental Quality, the Oregon Health Authority, Tribes and other Government agencies to hold periodic Smoke conference calls.

4th National Climate Assessment: <http://www.globalchange.gov/nca4>.

Gary shared that draft of the 4th National Climate Assessment is currently under review by the Administration and could result in significant changes. Meghan Dalton stated that the public review period will open late September or October. We will make an announcement about the review process and timeline once it becomes available. To related opportunities include:

- **NCA4 Review Editors**. We are currently seeking individuals with pertinent, demonstrated expertise to serve as Review Editors for NCA4. Review Editors are responsible for ensuring that all substantive comments received during the public comment period and from the National Academy of Sciences review are appropriately addressed, providing guidance on contentious issues, and ensuring that significant scientific uncertainties are adequately reflected in the text. **The deadline for submission is September 8, 2017**. Visit www.globalchange.gov/notices for more information or to [nominate](#) yourself or someone else. [[Federal Register](#)]

- **The National Academies of Sciences, Engineering and Medicine: Climate Communications Initiative. Call for Nominations.** The National Academies are establishing a new **Climate Communications Initiative (CCI)** to coordinate efforts across the institution to facilitate rapid and effective communication of evidence-based insights to an attentive public and critical decision makers. CCI will leverage consensus reports and ongoing activities across the depth and breadth of scientific disciplines housed at the National Academies to offer a suite of authoritative and objective materials and engagement opportunities. The National Academies are currently seeking individuals to serve on the Advisory Committee to help plan and guide the CCI. To submit a nomination, visit [Advisory Committee for the Climate Communications Initiative](http://www.surveygizmo.com/s3/3749724/cci-cte-noms). **Deadline for nominations is September 15, 2017.** <http://www.surveygizmo.com/s3/3749724/cci-cte-noms>

Tribal Climate Change Guide Updates

Miakah gave a brief update about the Tribal Climate Change Guide (<http://tribalclimateguide.uoregon.edu>) and highlighted several funding opportunities due in the next few months (see Funding Opportunities section below). We are also working on adding a search bar that allows users to search content on the full website, as opposed to only being able to find content for a particular page. If you have suggestions for content about the online guide or the structure/organization, please email kathy@uoregon.edu and miakah@uoregon.edu.

A Climate Change Assessment of Vegetation, Fire, and Ecosystem Services for Tribal Lands in the Pacific Northwest.

Michael Case with the University of Washington shared information by email on the *Climate Change Assessment of Vegetation, Fire and Ecosystem Services for Tribal Lands in the Pacific Northwest*. The project synthesized projections of changes in vegetation and fire across tribal lands in the PNW and explored how traditional knowledge can help inform the understanding of climate change impacts and its effect to tribal ecosystem services, such as traditional foods, hunting, timber production, non-timber forest resources, ranching quality, agricultural suitability, and threats to cultural resources. The project team plans to hold two workshops to present findings from this assessment. The first will be held one the day after the NW Climate Conference in Tacoma on October 12, 2017. The second workshop will be held in mid-December. They plan to present results from our assessment that identifies potential climatic changes to vegetation, fire, and ecosystem services across tribal lands and sacred places throughout the Pacific Northwest and interactively identify relevant adaptation strategies and tactics through a hands-on activity with session participants. More information about the assessment and workshops will be shared with the PNW Tribal Climate Change Network in upcoming bulletins and during the September conference call.

Additional Updates

- Northwest Indian College is hosting the First Annual STEM from Sea to Sky and Beyond Science Celebration Day on Friday, August 18, 2017 from 12 pm – 2 pm at Northwest Indian College, 2522 Kwina Road in Bellingham at the Pavillion in front of building 11.
- Don Motanic with the Intertribal Timber Council mentioned that the American Indian Science and Engineering Society has launched its annual membership drive, which is free for pre-college students. <http://www.aises.org/membership>
- [Northwest Climate Conference](#). Registration is open and scholarships are available. The NW

Climate Conference, taking place October 10-11, 2017 in Tacoma is offering student and tribal scholarships. For more information: <http://pnwclimateconference.org/registration.html>

- The next PNW Tribal Climate Change call will be held Wednesday, September 20th at 10 am Pacific. Peggy Orwell with the Bureau of Land Management will be presenting on the National Seed Strategy for Rehabilitation and Restoration.

Funding Opportunities

The online tribal climate change guide lists current and future funding opportunities here: <http://tribalclimateguide.uoregon.edu/>. Some selected grants due in fall 2017 are listed below.

Tribal Wildlife Grants. Tribal Wildlife Grant proposals are due on **September 1, 2017**. Please open the application package using the link below: <https://www.fws.gov/nativeamerican/grants.html>. For Tribes in California, Nevada, and the Klamath Basin please **email proposals to damion_ciotti@fws.gov or mail to:** Damion Ciotti, Habitat Restoration Office U.S. Fish and Wildlife Service 11641 Blocker Drive, Suite 110 Auburn, CA 95603. *The Tribal Wildlife Grant Program provides a competitive funding opportunity for federally recognized tribal governments to develop and implement programs for the benefit of wildlife and their habitat.*

National Fish Passage Program. Due September 30, 2017. The National Fish Passage Program (NFPP) is a voluntary program that provides direct technical assistance and financial assistance in the form of cooperative agreements and grants to partners to provide fish (and other aquatic organisms) passage and restore aquatic connectivity for the benefit of federal trust resources. The NFPP is delivered through more than 65 Fisheries and Aquatic Conservation (FAC) Field Offices across all States and territories. FAC staff coordinates with project partners, stakeholders and other Service programs to identify and collaboratively implement projects within Regional priority areas. Project work plans are developed strategically, in coordination with partners, and with substantial involvement from FAC staff. Projects must advance our mission, promote biological diversity, and be based upon sound scientific biological principles. FAC and Fish and Wildlife Service (FWS) strategic plans inform the types of projects funded under this opportunity. <https://www.grants.gov/web/grants/view-opportunity.html?oppld=290297>

Federal Emergency Management Agency Pre-disaster Mitigation Grants. Due November 14, 2017. The Pre-Disaster Mitigation (PDM) program makes available Federal funds to State, Local and Tribal Governments to implement and sustain cost-effective measures designed to reduce the risk to individuals and property from natural hazards, while also reducing reliance on Federal funding from future disasters. FEMA will provide allocations of \$575,000 as required by the Stafford Act to states and territories; and a tribal set aside of \$10 million for allocations up to \$575,000 for Native American Indian tribal governments to support overall mitigation planning and projects. The remaining PDM funds will be awarded on a competitive basis with a focus on multi-state/tribal mitigation initiatives. Applicants must submit applications via the Mitigation eGrants system on the FEMA Grants Portal: <https://portal.fema.gov>. <https://www.grants.gov/web/grants/view-opportunity.html?oppld=295314>

Announcements

Fire Leadership for Women: Prescribed Fire Training Center Modules for February and March 2018. Application Deadline is October 20, 2017. Encourage leadership on the fireline (from entry level to

upper management) using prescribed fire as a catalyst to bring women together to become strong and assertive leaders; to challenge themselves; enhance strengths and improve upon weaknesses; creating a support network, enhancing longevity and success for women in wildland fire management. Selection notifications made by mid-November. For additional information go to: <http://www.fws.gov/fire/pftc/>

Free Course: Managing for a Changing Climate. The South Central Climate Science Center is offering a **FREE** online course titled "Managing for a Changing Climate" that will launch on **August 21, 2017**. Anyone (climate scientists, interested citizens, college students, resource managers, etc.) who wants to learn more about how climate change is impacting our planet and better understand various potential management strategies is welcome to participate. This course will provide an integrative understanding of the components of the climate system, including the range of natural climate variability and external drivers of climate change. In addition, participants will learn about the impacts of a changing climate on multiple sectors such as the economy, policy, ecosystems, and indigenous populations. Development of this course was funded by the USGS through the South Central Climate Science Center on Grant #G15AP00136, NASA through the Oklahoma Space Grant Consortium on Grant #NNX11AB54H, and the University of Oklahoma College of Atmospheric and Geographic Sciences. The contents of this course are solely the responsibility of the authors and do not necessarily represent the views of the funding agencies. Register here: <<https://janux.ou.edu/course.tag-nextthought-com-2011-10-nti-courseinfo-fall2017-geog-metr-3523.html>>

New Course at the University of Washington: Calling BS. In spring 2017, iSchool Assistant Professor Jevin West and Biology Professor Carl Bergstrom launched a new course at the University of Washington, "Calling BS in the Age of Big Data." The topic struck a nerve. The "[Calling BS](#)" website had a viral effect right after its launch in January; news organizations across the country covered the story; and the first 1-credit class was booked up within one minute after registration began.

Now available from the University of Washington Press: [UNLIKELY ALLIANCES: Native Nations and White Communities Join to Defend Rural Lands](#). By Zoltán Grossman. Foreword by Winona LaDuke

Often when Native nations assert their treaty rights and sovereignty, they are confronted with a backlash from their neighbors, who are fearful of losing control of the natural resources. Yet, when both groups are faced with an outside threat to their common environment--such as mines, dams, or an oil pipeline--these communities have unexpectedly joined together to protect the resources. Some regions of the United States with the most intense conflicts were transformed into areas with the deepest cooperation between tribes and local farmers, ranchers, and fishers to defend sacred land and water. *Unlikely Alliances* explores this evolution from conflict to cooperation through place-based case studies in the Pacific Northwest, Great Basin, Northern Plains, and Great Lakes regions during the 1970s through the 2010s. These case studies suggest that a deep love of place can begin to overcome even the bitterest divides. <https://sites.evergreen.edu/unlikelyalliances>. **ZOLTÁN GROSSMAN** is a Professor of Geography and Native Studies at The Evergreen State College. He is a longtime community organizer and coeditor of *Asserting Native Resilience: Pacific Rim Indigenous Nations Face the Climate Crisis*.

2017-2018 Professional Certificate in Tribal Relations at Portland State University. The certificate is being jointly offered by the Institute for Tribal Government and the Center for Public Service at the Mark O. Hatfield School of Government at Portland State University. The program consists of seven classroom sessions and three field trips conducted over a ten-month period. The classroom instruction features panels and speakers drawn from experts in tribal culture, traditions, policy priorities, non-reservation Native communities, and emerging trends in Indian Country. The field trips focus on Indian policy making at the federal, state, and tribal-government levels. PSU plans to initiate the second cohort

in October 2017 and would welcome participants from your organization. If you, or others in your organization, are interested in participating in this program, please contact the ITG Director, Don Sampson at (541) 215-2753 or ITG's Graduate Assistant, Christian Marsh via email at cmash@pdx.edu or via phone at (503)341-2754. <https://www.pdx.edu/tribal-gov/certificate>.

Survey Evaluating Collaboration Between Indigenous Peoples and Climate Scientists

https://msu.co1.qualtrics.com/jfe/form/SV_9RKdJpqlnInJHrT. The project seeks to improve the quality of interaction and cooperation between Tribes and Climate Science Organizations in the U.S. Tribes are Indigenous peoples, whether U.S. federally-recognized, state-recognized or un-recognized. CSOs, broadly construed, refer to any government agency, research university or organization, or NGO that seeks to provide climate science information that can be used by leaders, decision-makers and other representatives of communities and governments to assess and prepare for climate change.

National Adaptation Forum 2017 presentations available online. The National Adaptation Forum has uploaded all [presentations](#) and [posters](#) saved throughout the week of the conferences. The presentations are accessible through the online program, as PDF attachments. Keep in mind, some sessions did not have PowerPoint presentations.

Job Opportunities

[Tolowa Dee-ni' Nation of Smith River, California Seeking Executive Director.](#) Tolowa Dee-ni' Nation is seeking a seasoned and committed servant-leader to take on the role of Executive Director during an exciting time of change and growth. The position is located in Smith River, California on the Nation's ancestral lands, in the pristine and beautiful Wild Rivers Region of Northern California. The recruitment will remain open until **August 31, 2017**, though it will be to the applicant's advantage to apply expeditiously. Only individuals that meet the desirable qualifications will be contacted by the recruiter. Applicants should email a letter of interest and a current chronological resume to: Judith Brighton (360) 280-5936 EM: judithb@whitenergroupp.biz. Qualified Native American candidates will be given preference.

[Northwest Indian Fisheries Commission Employment Opportunity. Deputy Director.](#) **Closing Date: September 1, 2017.** Oversee the overall administrative functions of the organization. Serve as Acting Director in the absence of the Executive Director. Plan, direct and supervise the activities of the Administrative Services Division's staff including Accounting, Information Systems, Clerical and Human Resources. Facilitate the development and preparation of agenda items for the NWIFC's Finance & Organization Committee. Responsible for the annual budget and indirect cost rate preparation. Serves as the primary point of contact for internal operations of the organization. In the absence of the Executive Director, serves as the point of contact for external inquiries regarding NWIFC programs.

[BLM-OR/WA Engaging Youth in Natural Resource Conservation and Public Land Management Projects Across Oregon and Washington.](#) Second round applications due by **August 21, 2017**; thereafter on the 5th of each month. From rangeland management to protection of cultural resources; fire suppression to energy development; trails and travel management to National Conservation Lands, the BLM values public involvement and a collaborative environment. <https://www.grants.gov/web/grants/search-grants.html?keywords=L17AS00117>

Request for Qualifications & Quote (RFQQ): Wildland Fire Technical Specialist. [Intertribal Timber Council](#). **Proposals due no later than Thursday, August 31, 2017, at 3:30 pm PST.** The purpose of this

RFQQ is to solicit proposals from individuals to provide oversight and monitoring of wildland fire policies and issues that impact Indian country on behalf of the ITC. The instructions on proposal preparation, required documents, eligibility requirements and evaluation criteria are provided in a PDF announcement posted on the [ITC website](#):
<file:///Users/kathlynn/Downloads/RFQQ%20ITC%20Fire%20Technical%20Specialist.pdf>.

Food Security Coordinator at NASA's Goddard Space Flight Center. Science Systems and Applications, Inc. (SSAI) is looking for an individual to support the Food Security Office led by the Applied Sciences Manager within the Earth Science Division at NASA Goddard Space Flight Center. The Food Security Office is a function executed by the NASA Goddard Applied Sciences team at the request of the NASA Headquarters Applied Sciences Water Resources Program as part of a Food Security Initiative, and works under the leadership of the Goddard Applied Sciences Manager to support the goals of the Food Security Office, which includes coordinating with an externally led consortium funded by the NASA Headquarters Applied Sciences Program. The objective of the Food Security Consortium (the Consortium) and the Food Security Office is to enhance the use of earth observation and NASA earth science satellite capabilities to support food security and agriculture.
<https://jobs.sciencecareers.org/job/456354/food-security-coordinator/>

Indigenous Climate Action Toolkit Coordinator/Researcher with Indigenous Climate Action. Deadline for Applications: September 1, 2017. Indigenous Climate Action (ICA) is looking for someone with passion, who enjoys paving the way forward, and is committed to true Indigenous Climate Justice to serve as its Toolkit Coordinator/ Researcher. ICA is a newly formed Indigenous-led initiative whose goal is to fill the gaps between the lived experiences of Indigenous Peoples and policies and strategies being developed to address climate change amplified by an Indigenous worldview. For more information go to our website at <https://www.indigenousclimateaction.com/>

Applications are Now Being Accepted to Host the North Central and Southwest Climate Science Centers. Proposals due September 7, 2017. Climate Science Center host institutions are expected to provide expertise and experience to achieve the CSC mission of identifying climate/global change impacts to and effective adaptation strategies for land; water; fish and wildlife; nearshore, coastal and cultural heritage resources; and the ecosystem services upon which human communities depend. Host Institutions will be eligible for projects and project funding as a component of this agreement.

Media and Publications

Regaining our Future: An Assessment of Risks and Opportunities for Native Communities in the 2018 Farm Bill. Prepared by Janie Simms Hipp and Colby D. Duren Indigenous Food and Agriculture Initiative Commissioned by Seeds of Native Health. A campaign of the Shakopee Mdewakanton Sioux Community.
http://seedsofnativehealth.org/wp-content/uploads/2017/06/Farm-Bill-Report_WEB.pdf

Exploring Alternatives to the "Consultation or Consent" Paradigm. Jason Searle, *Exploring Alternatives to the "Consultation or Consent" Paradigm*, 6 Mich. J. Env'tl. & Admin. L. 485 (2017). Available at: <http://repository.law.umich.edu/mjeal/vol6/iss2/4>

Land on Fire. Living on Earth Radio Interview. *"The impact, devastation, and cost of forest fires in America's West has multiplied in recent decades. Wildfires now blaze fiercer, hotter, and longer than ever before, tearing through communities and overwhelming the forest service budget. Rising temperatures, partly driven by global warming and longer drought seasons have encouraged more insect*

attacks, and turned western forests into easy kindling for raging megafires - yet people keep building homes in the danger zones. Nature writer Gary Ferguson sits down with host Steve Curwood to discuss his new book, *Land on Fire*, the new reality of wildfire in the West, and important tips for homeowners to help protect their property and lives.” <http://www.loe.org/shows/segments.html?programID=17-P13-00031&segmentID=4>

USDA Forest Service Tribal Relations News:

<https://www.fs.fed.us/spf/tribalrelations/documents/news/Summer2017-TribalRelationsNews.pdf>

Tribal Profiles and Toolkit Resources

The Tohono O’odham: Desert People in a Changing Environment. *Developed by the [Institute for Tribal Environmental Professionals](#).* The tribe is in the final stages of reviewing their Climate Change Adaptation Plan, which will likely address water issues, increasing heat, food security, and other climate-related issues, including human health and wellness, ecosystem management, and financial sustainability during major climate events. The plan will incorporate observations and priorities of tribal members, informed by research drawn from various sources that include the University of Arizona's Center for Climate Adaptation Science and Solutions, a local O'odham partner. http://www7.nau.edu/itep/main/tcc/Tribes/sw_toodham

The Quileute Tribe: Navigating a Sea of Change. *Developed by the [Institute for Tribal Environmental Professionals](#).* As climate change continues to impact the Quileute community, tribal members are rethinking not only their means of sustenance but their geographic location. Federal legislation in 2012 gave the small tribe an additional square mile of higher land to which they are slowly relocating parts of their community—a limited but possibly critical option. http://www7.nau.edu/itep/main/tcc/Tribes/pn_quileute

US Climate Resilience Toolkit Case Study. [Moving Forward Together: Building Tribal Resiliency and Partnerships](#). The four member tribes of the Upper Snake River Tribes Foundation collaborated on a Climate Change Vulnerability Assessment, resulting in a quantified assessment of their shared concerns and establishment of a common foundation for future adaptation efforts. <https://toolkit.climate.gov/case-studies/moving-forward-together-building-tribal-resiliency-and-partnerships>

Upcoming Events

August 21, 2017. 1 pm Pacific. Round table discussion on Traditional Ecological Knowledge Issues and Partnerships. The [University of Arizona Southwest Tribal Climate Change Network Call](#) for August will take place on Monday, August 21, 2017 at 1 pm (PST/Arizona time). Register [here](#)! This special round table webinar discussion co-hosted with the [California Landscape Conservation Cooperative Tribal Team](#). You can also participate at one of our satellite meetings (see below for details). The focus of the discussion will be on Traditional Knowledge/Traditional Ecological Knowledge (TEK) issues and strategies for developing effective partnerships. Traditional Ecological Knowledge (or TEK) refers to the evolving knowledge acquired by indigenous and local peoples over hundreds and thousands of years through generations of stewardship of the environment. The value of incorporating TEK into management strategies has become increasingly recognized particularly in adapting to climate change. The CA LCC Tribal Team works to create opportunities for partnership between and among Tribes and other land

managers and contribute to a holistic view of land management that includes tribal cultural heritage and traditional ecological knowledge (TEK).

August 22-24, 2017. [Climate Change Adaptation Training](#). Presque Isle, Maine.

<https://www7.nau.edu/itep/main/forms/tccReg>

August 24, 2017. 10 am Pacific. Webinar: [The Northwest Climate Toolbox: Mapping Climate Information for multi-sectoral stakeholders](#). The Northwest Climate Toolbox

(<http://climatetoolbox.org>) is a collection of web tools for visualizing observed and projected climate information to help with decision making in agricultural, water management, and fire management. his webinar will provide an overview of the datasets behind the Northwest Climate Toolbox and a demonstration of the functionality of the Climate Mapper tool, some example applications, and a short discussion of the development of this tool with lessons learned from user testing.

August 24, 2017. 10 am Pacific. [Implementing climate-smart resource management across multiple ownerships in southwestern Oregon](#). Join our presenters for a discussion on this climate-smart resource adaptation management project, which builds on [The Rogue Basin Action Plan for Resilient Watersheds and Forests in a Changing Climate](#). This project implemented recommendations from the Action Plan in resource management and planning, linking key vulnerabilities with specific adaptation strategies and tactics on the ground, and linking adaptation with restoration, planning, and resource monitoring programs across multiple land ownerships. Specific management objectives include:

- Implement restoration projects that integrate climate-smart practices, a proof of concept for southwestern Oregon.
- Prioritize restoration projects in the Rogue Basin using the Action Plan and other ongoing efforts focused on restoration and adaptation in the region.
- Incorporate climate-smart adaptation practices in federal planning in southwestern Oregon.

The publication "[Developing and Implementing Climate Change Adaptation Options in Forest Ecosystems: A Case Study in Southwestern Oregon](#)" emerged as a result of this project.

August 29-31, 2017. [Northwest Tribal Summit: Holistic Planning for Climate Change](#). Polson, Montana.

To register or for more info: ryan.evans@cskt.org or visit: <https://www.eventbrite.com/e/northwest-tribal-climate-summit-holistic-planning-for-climate-change-tickets-35358445061>.

August 24, 2017. 10 am Pacific. Webinar: [The Northwest Climate Toolbox: Mapping Climate Information for multi-sectoral stakeholders](#). The Northwest Climate Toolbox

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August 24-25, 2017. [Leadership Workshop for Early Career Women in Science](#). Fairbanks, AK.

<https://csc.alaska.edu/events/leadership-workshop-early-career-women-science>

August 25, 2017. 10 am Pacific. Webinar: [STARR: Incorporating Climate Adaptation into Natural Hazards Mitigation Planning](#). Addressing 'climate change' at the local, state, or Tribal-level may feel like trying to tackle an amorphous idea, on top of an already heavy work load. The natural hazards mitigation plan, however, can provide a structured format for addressing specific impacts of climate

change within existing planning efforts; and provide a starting point for linking with other planning mechanisms. This webinar will explore the potential of the plan and the planning process for addressing climate science and adaptation options. Topics covered will include where to find data on climate change impacts, how to prioritize specific impacts for your community, and examples of integrating data into the hazard risk assessments and mitigation actions.

September 5-7, 2017. [Northwest Enterprise Development Conference](#). National Center for American Indian Enterprise Development Conference, Tulalip Resort Casino, Tulalip, WA. The Northwest Enterprise Development Conference is another multifaceted event from The National Center which will feature unparalleled access to respected tribal leaders, members of congress, federal agency representatives, state and local elected officials and top CEO's, on a national platform. Attendees will benefit from high caliber networking, teaming opportunities, business development sessions, American Indian Artisan Market, Business Leaders Forums, and much more. It's just one more example of how The National Center is building bridges of opportunity for today's American Indian Enterprises. ATNI is proud to offer a discount code to our members on registration to this unique event. Please use promo code ATNINW17 when registering at <http://res.ncaied.org>.

September 18-21, 2017. ATNI Fall Annual Convention 2017. Hosted by: Confederated Tribes of the Colville Reservation. Spokane, WA. ATNI Conventions are where members convene for discussion, presentations and the work of the committees in regard to policy, legislation, and the future of Indian Country in the Northwest. [Register Online Today](#)

September 19-21, 2017. [2017 Southwestern Climate Change Summit](#). University of San Diego. The La Jolla Band of Luiseno Indians, Institute of Tribal Environmental Professionals and the University of San Diego are collaborating on the 2017 Southwestern Tribal Climate Change Summit. For more information, contact: Nikki Cooley, Climate Change Program, Institute for Tribal Environmental Professionals at Nikki.Cooley@nau.edu or visit http://www7.nau.edu/itep/main/tcc/Home/swtcc_Summit.

September 25-28, 2017. 2017 National Tribal Health Conference. Seattle, WA. <http://www.nihb.org/>

September 27-28, 2017. Local Mitigation Planning Workshop, Anchorage, Alaska. The Alaska Division of Homeland Security and Emergency Management and FEMA Region X are pleased to offer a G-318 Local Mitigation Planning Workshop. This two-day workshop covers the fundamentals of mitigation planning for communities that must develop or update local, tribal, or special districts Natural Hazards Mitigation Plans that meet requirements established in 44 CFR 201.6 and 201.7, and address community priorities and needs. This workshop describes the planning process, the requirements for stakeholder involvement, assessing risks, and developing effective mitigation strategies. Tuition is free for those accepted. If you are interested in applying for this training, please contact Eve Edwards for an application: eva.edwards@alaska.gov.

October 2-5, 2017. [National Food Sovereignty Summit](#). Green Bay Wisconsin. First Nations Development Institute and the Oneida Nation of Wisconsin are pleased to announce the national Food Sovereignty Summit on. This is a forum for sharing and collaboration to build healthy food systems within our communities. <https://www.regonline.com/builder/site/Default.aspx?EventID=1927890&=>

October 10-11, 2017. 2017 [Northwest Climate Conference](#), Tacoma, WA. <http://pnwclimateconference.org/>

October 10-13, 2017. American Indian Air Quality Training Program (AIAQTP). [Air Quality & Indoor Air Quality in Alaska Native Villages](#). Nome, Alaska. **Pre-registration deadline: September 5, 2017. This is an entry-level course for environmental staff from Alaska Native Villages who are interested in air quality issues. The course provides an understanding of the importance of clean air (outdoors and indoors) for the protection of human health and the total environment. Approximately half of the course will deal with ambient (outdoor) air and half of the course will deal with indoor air. We encourage attendance from environmental, housing, and health departments. For more information, visit: https://www7.nau.edu/itep/main/Training/training_aq_aqiaqak.**

October 15 - 18, 2017. [Behavior, Energy and Climate Change Conference](#). Sacramento, CA. This conference is based on understanding the individual and organizational behavior and decision-making and using that knowledge to accelerate our transition to an energy-efficient and low-carbon future. Register at: <http://aceee.org/conferences/2017/becc>

October 19-20, 2017. [Southwest Environmental Health Sciences Center Tribal Environmental Health Forum](#), Wild Horse Pass Hotel & Casino, 5692 West North Loop Road, Chandler, AZ. Early registration only \$25 now through August 20! <http://www.tribalforum.arizona.edu/>

October 24, 2017. 2 pm Pacific. Webinar: Northwest Climate and Health Network. [Register Here](#).

October 24-27, 2017. Conference: California Invasive Plant Council Symposium. Palm Springs, CA. Land managers, researchers, and conservationists will learn about the latest in invasive plants from riparian, grassland, mountain, coastal, and aquatic/wetland habitats. <http://cal-ipc.org/symposia/index.php>

November 10-12, 2017. The 11th Graduate Climate Conference. Cape Cod, Massachusetts. The conference provides a discussion forum for graduate students undertaking research on climate and climate change in an array of disciplines throughout the physical sciences, biological sciences, social sciences, and humanities. Register here: <http://gradclimateconf.mit.edu/>

November 15-16, 2017. [Preparing People for Climate Change in the PNW](#). Portland, Oregon. Conference on Applying Psychological & Psycho-Social-Spiritual Models to Build Human Resilience for Climate Shocks & Stressors

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.

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](#)
- [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/Calendars

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