
Pacific Northwest Tribal Climate Change Network: Conference Call Notes and Email Bulletin – December 14, 2016

Participants:

- Lara Whitely Binder, Climate Impacts Group
- Joseph Bonnell-Hall, Couer d’Alene Tribe
- Tess Carter, National Climate Assessment
- LaNeice Congdon
- Carol Fletcher, Organized Village of Kasaan
- Josh Foster, Northwest CSC
- Eliza Ghitis, Northwest Indian Fisheries Commission
- Mike Grady, NOAA Fisheries
- Oliver Grah, Nooksack Tribe
- Ciarra Greene, Wisdom of the Elders
- Keith Hatch, BIA NW Region
- Scott Hauser, Upper Snake River Tribes Foundation
- Lynn Helbrecht, WA Dept. of Fish and Wildlife
- Margaret Herzog, BIA
- Jennie Hoffman, Adaptation Insights
- Shilpa Joshi, Renew Oregon
- Carolyn Kelly, Quinault Indian Nation
- Kathy Lynn, University of Oregon
- John Mankowski, NPLCC
- Amelia Marchand, Confederated Colville Tribes
- Toby Mcleod, Samish Indian Nation
- Andrew Miller, Organized Village of Kasaan
- Don Motanic, Intertribal Timber Council
- Frederick Olsen Jr., Organized Village of Kasaan
- Callie Ridolfi
- Gabrielle Roesch-McNally, NW Climate Hub
- Roy Sampsel
- Maggie Sanders, Nisqually Indian Tribe
- Steve Spencer, Shoalwater Bay Indian Tribe
- Kim Stone, Great Lakes Indian Fish and Wildlife Commission

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2017 PNW Tribal Climate Change Network Calls (10 am Pacific):

- January 18, 2017
- February 15, 2017
- March 15, 2017
- April 19, 2017
- May 17, 2017
- June 21, 2017
- July 19, 2017
- August 16, 2017
- September 20, 2017
- October 18, 2017
- November 15, 2017
- December 20, 2017

Conference Call information:

Toll-Free: 888-844-9904
Access Code: 5064716
Adobe Connect web meeting: <http://oregonstate.adobeconnect.com/tribalclimate/>

Conference Call Notes

Update on the National Climate Assessment Technical Input Process

The [Affiliated Tribes of Northwest Indians](#) (ATNI), [Northwest Indian Fisheries Commission](#) (NWIFC), the [Columbia River Inter-Tribal Fish Commission](#) (CRITFC), the [Upper Snake Rivers Tribes Foundation](#) (USRT), the [Upper Columbia United Tribes](#)(UCUT) and the [Pacific Northwest Tribal Climate Change Network](#) worked together in response to a request for technical input from Pacific Northwest Tribes for the [4th National Climate Assessment](#) to develop a questionnaire intended to help ensure that the next National Climate Assessment reflect the significant work that Pacific Northwest tribes are doing to address climate change. The deadline for responses to the questionnaire for technical input to the 4th National Climate Assessment closed on December 9. We received 29 responses from 21 tribes and 5 intertribal organizations. There will be an initial version of the report submitted this week that provides the list of publications that tribes who responded to the questionnaire submitted as technical input. This publication list is attached to the notes from the call. If your tribe was unable to complete the questionnaire but wants to contribute a publication please send the citation, weblink or report to Kathy (kathy@uoregon.edu) 12/31/2016. We will submit the full report and revised publication list before the NCA Technical Input deadline of January 15.

[Call for Technical Inputs for the 4th National Climate Assessment](#). Development of the Fourth National Climate Assessment (NCA4) is underway, and nominations for regional and sectoral chapter lead authors, and contributing authors with relevant subject matter expertise, are [now open](#). [Details on chapter topics](#) can be found at the bottom of the federal register notice. Author nominations must be submitted by September 30, 2016. Technical inputs on sectoral, regional, and cross-cutting topics, which will serve as part of the foundation for NCA4 along with special assessments and other literature, can also be submitted at this time. [Details on regions and topics](#) to be included can be found at the bottom of the federal register. **All scientific and technical inputs must be submitted by January 15, 2017.**

NOAA's federal advisory committee for the Sustained National Climate Assessment

The 4th National Climate Assessment is being led by a Federal Steering Committee with representatives from 12 of the agencies involved in the US Global Change Research Program and is chaired by the NCA Director.

Under the [Global Change Research Act of 1990](#), the [U.S. Global Change Research Program](#) (USGCRP) is responsible for climate assessment activities and the [quadrennial National Climate Assessment \(NCA\)](#) report. The NCA integrates and evaluates the findings of the USGCRP in the context of current and projected global climate change trends, both human-induced and natural, and analyzes the effects of current and projected climate change on: ecosystems and biological diversity, agriculture, energy production and use, land and water resources, transportation, human health and welfare, and social systems. USGCRP is implementing a [sustained National Climate Assessment process](#) that will ultimately facilitate continuous and transparent participation of scientists and stakeholders across regions and sectors, enabling new information and insights to be synthesized as they emerge.

In 2015, the National Oceanic and Atmospheric Administration (NOAA) established the Advisory Committee for the Sustained National Climate Assessment under the provisions of the [Federal Advisory Committee Act \(FACA\)](#). The Advisory Committee consists of 15 experts that advise on the engagement of stakeholders and on sustained assessment activities and the quadrennial NCA report.

Ann Marie Chischilly, Executive Director of the Institute for Tribal Environmental Professionals is a member of the Sustained NCA Federal Advisory Committee. Ann Marie will join the PNW Tribal Climate Change Network call in January to share more information about the efforts of this group.

Climate Change and Our Natural Resources: A Report from the Treaty Tribes in Western Washington

Eliza Ghitis, climate change coordinator for the Northwest Indian Fisheries Commission provided an overview of the report from the Treaty Tribes in Western Washington on Climate Change and natural resources. Eliza's presentation provided an overview from the perspective of the tribes and an outline of the report. "This report from the treaty tribes in western Washington presents a synthesis of the impacts of climate change to the natural systems that sustain our treaty rights. Species of great importance, including fish, shellfish, terrestrial plants, and wildlife, are already facing negative effects due to climate change... The document begins with background information on the treaty tribes in western Washington and our homelands (Chapter 2). After an overview of global and regional climate trends (Chapter 3), Chapters 4 through 7 describe existing and projected climate change impacts to aquatic, marine, and terrestrial environments. Also presented in these chapters is a brief summary and a discussion of factors that contribute to resilience, or the ability to adapt to change. Chapter 8 describes potential next steps for moving forward and presents a collection of research questions for consideration. The report is available here: <http://nwifc.org/w/wp-content/uploads/downloads/2016/11/FINAL-Climate-Change-Report-2016-low-res.pdf>.

Don Motanic asked if the Forest Inventory Analysis reports, which are a national program that collects data on all public and private forests. More information about FIA is available here: <http://www.fs.fed.us/pnw/rma/fia-topics/index.php> and we may bring someone from the Pacific Northwest Research Station of the Forest Service on to a Network conference call early in 2017 to learn more about FIA and opportunities for partnerships. Considerations of population increase, pressure for infrastructure and the potential for land use and land cover changes is important in climate change adaptation and mitigation.

Margaret asked about the connections with the work that the North Pacific Landscape Conservation Cooperative is doing to develop landscape level analyses of habitat fragmentation to support strategic planning. John Mankowski talked about current projects and funding supporting habitat integrity and connectivity, and looking at where fragmentation will cause the most impacts. Partners in Oregon, Washington, BC and Alaska are all working on a large scale connectivity framework. More information is available here: <http://www.northpacificlcc.org/north-pacific-forest-landscape-corridor-and-connectivity-project-assessing-landscape-and-species-vulnerability>.

2017 Climate Legislation in Oregon

Shilpa Joshi from [Renew Oregon](#) presented on an effort being led in partnership by Renew Oregon and the [Coalition of Communities of Color](#). They are working towards a "Cap and Price" program to secure greenhouse gas reductions in Oregon. Attached with these notes are the principles for the Cap and Price program, which state, "*As legislators evaluate policies to hold large polluters accountable, these principles should guide their efforts; to be effective and equitable, the following principles must be true for any prospective policy. Now more than ever, to beat back the greatest threat to this generation, secure and grow our economy both rural and urban, Oregon must be a leader in clean energy and climate protection.*" They are also working on moving the principles document into draft language for a legislative bill for 2017. They are interested in hearing tribal concerns, and have already met with the

Klamath Tribes, the Confederated Tribes of Coos, Lower Umpqua and Siuslaw Indians. They also have meetings scheduled with the Confederated Tribes of Grand Ronde and the Oregon Legislative Commission on Indian Services. The mission of these meetings are to hear what community needs are, and how the community is addressing those needs through their own programs. One potential pathway they are considering is an incubator pilot that directs proceeds from a cap on greenhouse gas emissions to investments in a business incubator, such as a weatherization company, or a solar company to increase workforce development in renewable energy.

Shilpa emphasized their interest in reaching out to tribes and intertribal organizations. Roy Sampsel indicated interest and had suggestions that he will reach out to Shilpa with in order to follow-up.

Shilpa provided a link to the Principles for Climate Justice developed by the Coalition of Communities of Color, which is available here:
<https://static1.squarespace.com/static/5501f6d4e4b0ee23fb3097ff/t/58127f646a49634d81a5b346/1477607270176/2016+Redefine-Principles+for+CJ.pdf>.

The principles for the cap and price program are attached to these meeting notes in a separate document.

General Updates

- Keith Hatch mentioned that the Request for Proposals to support work related to Endangered Species, Tribal Youth and Invasive are due January 13, 2017. Kathy will make sure that all relevant information is updated on the [Tribal Climate Change Guide](#) by the end of this week.
- Roy Sampsel suggested that we dedicate time during the January and February Network Calls to discuss the transition to the new administration, and what the impacts are to current climate programs and budgets. Don Sampson is organizing a session for the January 2017 ATNI convention, so Kathy will work with Don to bring this discussion to the Network during the first few conference calls of the year.

Funding Opportunities

[Truman D. Picard Scholarship](#). Sponsored by the Intertribal Timber Council. The 2017 scholarship deadline is January 18, 2017, 5:00 p.m. PST. http://www.itcnet.org/about_us/scholarships.html

Funding Opportunity Announcements (FOAs) for the Drought Response Program. Deadline for Applications: February 14, 2017. Darion Mayhorn with the Bureau of Reclamation shared the Drought Contingency Planning FOA to invite eligible applicants to leverage their resources by cost sharing Drought Contingency Planning with Reclamation to build resilience to drought in advance of a crisis. Applicants under this FOA may request funding to develop a new drought plan or to update an existing drought plan. Applicants may also request technical assistance from Reclamation for the development of elements of the Drought Contingency Plan. Applicants may request up to \$200K in Federal funds. There is a cost-share waiver available under exceptional/limited circumstances (see C.2. in the FOA). Drought Resiliency Projects increase flexibility for water managers through system modifications and improvements, and development of alternative water supplies, among other projects to mitigate the impacts of future drought.

- Planning Funding - <http://www.grants.gov/web/grants/view-opportunity.html?oppld=290122>
- Project Funding- <http://www.grants.gov/web/grants/view-opportunity.html?oppld=290104>

ANNOUNCEMENTS

National Climate Change and Wildlife Science Center Seeking 2017 Science to Action Fellows. The National Climate Change and Wildlife Science Center is soliciting Statements of Interest from graduate students interested in the 2017 Science to Action Fellowship. The fellowship provides an opportunity for students to work closely with USGS staff and partners to develop a product that supports climate change decision making. **Statements of Interest are due December 15, 2016.** More information is available here: <https://nccwsc.usgs.gov/science-action-fellowship>.

Re-Competition for the Northwest and Southeast Climate Science Centers is open. The re-competition for the Northwest and Southeast Climate Science Centers has been REOPENED (as of 10/6/2016). The Grants.gov Program Announcement has been posted at: <http://www.grants.gov/web/grants/search-grants.html?keywords=g16as00129>. **Applications to host the Northwest and Southeast CSCs must be submitted to grants.gov by January 12, 2017** at 3:00 PM EST. <https://nccwsc.usgs.gov/csc-recompetition>.

Winona LaDuke –Rights of Nature. On Saturday, November 19, 2016, [Winona LaDuke spoke on the Rights of Nature](#) at the University of Oregon. Community Rights Lane County along with UO Native American Studies, Ethnic Studies and the Tribal Climate Change Project is hosting a “Rights of Nature” presentation by Winona LaDuke in the EMU Ballroom, Saturday November 19th at 7pm. The recording of the event is available here: <http://media.uoregon.edu/channel/archives/11275>.

Draft Northwest Forest Plan (NWFP) science synthesis is now available online at <http://www.fs.fed.us/pnw/research/science-synthesis/index.shtml>. The *draft Northwest Forest Plan science synthesis is now available* for review and public input. The draft synthesis is currently undergoing peer review coordinated by the Ecological Society of America. The U.S. Forest Service’s Pacific Northwest and Pacific Southwest Research Stations developed the draft synthesis, which, when finalized, will help to provide a scientific foundation for land management plans for 17 national forests within the NWFP area. Written by 45 scientists from the Forest Service, other federal agencies, universities, and tribes, the synthesis provides a review of the relevant scientific literature pertaining to key resource management topics within the NWFP area. The public can provide input on the science content of the draft synthesis to the group of independent peer reviewers in two ways:

- From **November 10, 2016, through January 6, 2017**: Upload written input via <http://www.fs.fed.us/pnw/research/science-synthesis/index.shtml>.

BIA / BIE K-12 Tribal Student Climate Change Photo Contest. Using a classroom or cell phone camera, take a picture of something you value in your tribal community that climate change might affect. Include a caption describing the climate impact (and what might be done about it). Submit all captioned photos or questions by e-mail to: bia_climate_photo_contest@bia.gov or by teacher's class instructions. Categories: K-5, 6-8, & 9-12. Spring entries are due **April 28, 2017**.

Media and Publications

Climate Change and Our Natural Resources: A Report from the Treaty Tribes in Western Washington. On November 15, 2016, the treaty tribes in western Washington released a comprehensive report on how climate change is hurting tribal treaty rights and natural resources. This report from the twenty member tribes of the Northwest Indian Fisheries Commission focuses on the impacts of climate change

to our homelands, waters, and ways of life. We have a historical and contemporary relationship with the watersheds and ecosystems of the Pacific Ocean coast, the Strait of Juan de Fuca, Hood Canal, and Puget Sound. Virtually all of the resources and activities that our treaties protect—fishing, gathering, and hunting—are impacted by the effects of climate change. To download the report, visit: <http://nwtreatytribes.org/climatechange/>.

Norton-Smith, Kathryn; Lynn, Kathy; Chief, Karletta; Cozzetto, Karen; Donatuto, Jamie; Hiza Redsteer, Margaret; Kruger, Linda E.; Maldonado, Julie; Viles, Carson; Whyte, Kyle P. 2016. **Climate change and indigenous peoples: a synthesis of current impacts and experiences**. Gen. Tech. Rep. PNW-GTR-944. Portland, OR: U.S. Department of Agriculture, Forest Service, Pacific Northwest Research Station. 136 p. <http://www.treearch.fs.fed.us/pubs/53156>

Inspiring Resilience: Indigenous Disaster Resilience. *in HazNet: The Magazine of the Canadian Risks and Hazards Network*. <http://haznet.ca/wp-content/uploads/2016/11/haznet-fall-2016-reduced-3.pdf>

Coastal Adaptation Strategies Handbook. The Coastal Adaptation Strategies Handbook summarizes the current state of NPS climate adaptation and key approaches currently in practice or considered for climate change adaptation in coastal areas in order to guide adaptation planning in coastal parks. The chapters focus on policy, planning, cultural resources, natural resources, facility management, and communication/education. The handbook highlights processes, tools and examples that are applicable to many types of NPS plans and decisions.

Explaining Ocean Warming: Causes, scale, effects and consequences. This report represents the most comprehensive review to date on ocean warming. To build up the report, leading scientists from around the world were invited to join with colleagues to contribute individual chapters. The focus of the report is on gathering facts and knowledge and communicating this to show what is now happening in and to the ocean.

Identifying potential marine climate change refugia: A case study in Canada's Pacific marine ecosystems. The effects of climate change on marine ecosystems are accelerating. Identifying and protecting areas of the ocean where conditions are most stable may provide another tool for adaptation to climate change. To date, research on potential marine climate refugia has focused on tropical systems, particularly coral reefs. We examined a northeast Pacific temperate region - Canada's Pacific – to identify areas where physical conditions are stable or changing slowly.

STORMTOOLS. STORMTOOLS shows coastal inundation projections from storm surge inundation and sea level rise. STORMTOOLS is a method to map storm inundation, with and without sea level rise, for varying return period storms that covers all of Rhode Island's coastal waters.

Climate Change Indicators in the United States, 2016 (Fourth Edition). The U.S. Environmental Protection Agency (U.S. EPA) has published a new report, '[Climate Change Indicators in the United States, 2016 \(Fourth Edition\)](#)'. 'EPA partners with more than 40 data contributors from various government agencies, academic institutions, and other organizations to compile a key set of indicators related to the causes and effects of climate change.' For a free copy, send a request including your full mailing address to EPA's Climate Change Indicators Team at climateindicators@epa.gov.

Upcoming Events

January 25-26, 2017. [California Climate Change Symposium](#), Sacramento, CA. This symposium is the premier forum for the sharing of cutting-edge research addressing the impacts of climate change on the state. This research informs the state's strategies and policies to reduce greenhouse gas emissions and to develop programs to safeguard California from a changing climate.

February 6-10, 2017. Conference: Alaska Forum on Environment, Anchorage, AK. The Alaska Forum on the Environment (AFE) is a statewide gathering of environmental professionals from government agencies, non-profit and for-profit businesses, community leaders, Alaskan youth, conservationists, biologists and community elders. <http://www.akforum.org/>

February 14-16, 2017. Conference: 2017 Climate and Health Summit in Atlanta, Georgia. The central theme at the Summit will be "Translation of Science to Practice." We expect participation of experts from academia, federal agencies, and international organizations; practitioners from state/local health departments; and leaders in private foundations engaged in broad-ranging climate and health issues. If you have any questions, please contact ClimateHealthSummit2017@cdc.gov.

February 21-23, 2016. [Institute for Tribal Environmental Professionals Tribal Climate Change Training](#). Anchorage, AK. http://www7.nau.edu/itep/main/Training/training_cc

March 7-9, 2016. [Institute for Tribal Environmental Professionals Tribal Climate Change Training](#). Spokane, WA. http://www7.nau.edu/itep/main/Training/training_cc

March 8-10, 2017. [National Environmental Justice Conference and Training Program](#). Washington D.C.

May 2-4, 2017. [15th Annual Climate Prediction Applications Science Workshop](#). Scheduled for May 2-4, 2017, the [15th annual Climate Prediction Applications Science Workshop \(CPASW\)](#) will bring together climate researchers, information producers, and users to share developments in the research and applications of climate predictions for societal decision-making. The deadline for the [call for abstracts](#) is January 13, 2017.

May 9-11, 2017. [National Adaptation Forum](#). St. Paul, MN. The National Adaptation Forum is the gathering of the adaptation minded. Since the Forum is created by and for the members of the adaptation community, the meeting focuses on issues of the day. <http://www.nationaladaptationforum.org/>

May 15, 2017. [Climate-Smart Conservation with Scenario Planning](#). National Conservation Training Center, Shepherdstown, WV. This five day class is based on two guides: Climate-Smart Conservation: Putting Adaptation Principles into Practice and Considering Multiple Futures: Scenario Planning to Address Uncertainty in Natural Resource Conservation. The first half of the course refers to the climate-smart conservation guidance and is designed to demystify climate adaptation for application to on-the-ground conservation. It will provide guidance in how to carry out adaptation with intentionality, how to manage for change and not just persistence, how to craft climate-informed conservation goals, and how to integrate adaptation into on-going work. For more information, contact Jill Del Vecchio; jill_delvecchio@fws.gov, (304) 876-7424, jill_delvecchio@fws.gov.

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](#)
- [Columbia River Intertribal Fish Commission](#)
- [Northwest Indian Fisheries Commission](#)
- [Affiliated Tribes of Northwest Indians](#)
- [Alaska Native Tribal Health Consortium LEO Network](#)
- [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](#)

NEWSLETTERS AND CALENDARS

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