

**Pacific Northwest Tribal Climate Change Project
DRAFT Meeting Notes – Wednesday, June 17, 2015**

Call Participants:

- Lucas Bair, Spokane Tribe
- Julia Burton, Oregon State University
- Tania Ellersick, USDA Forest Service, Washington Office
- Laura Gephart, Columbia River Intertribal Fish Commission
- Eliza Ghitis, NW Indians Fisheries Commission
- Jennifer Hanlon, Central Council of Tlingit & Haida
- Preston Hardison, Tulalip Tribes
- George Hart, Navy Region Northwest
- Carolyn Kelly, Quinault Indian Nation
- Linda Kruger, USDA Forest Service
- Kathy Lynn, University of Oregon
- Mary Mahaffy, North Pacific Landscape Conservation Cooperative
- Amelia Marchand, Colville Tribe
- Andrew Miller, Organized Village of Kasaan
- Don Motanic, Intertribal Timber Council
- Kathryn Norton-Smith, University of Oregon
- David Redhorse, Bureau of Indian Affairs
- Cheryl Shippentower, Confederated Tribes of the Umatilla Indian Reservation
- Carson Viles, University of Oregon

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Upcoming PNW Tribal Climate Change Network Conference Call Dates

- July 15, 2015
 - August 19, 2015
 - September 16, 2015
 - October 21, 2015
 - November 18, 2015
 - December 16, 2015
- Call-in Information:*
- Call Time: 10:00 am Pacific
 - Call-in #: 1-888-858-2144

- Pass code: 5064716

Discussion Topics

Request for assistance in identifying cultural significance of forest understory plant species

Julia Burton described an ongoing research project at Oregon State University. This project will assess the effects of future climate change and forest management scenarios on forest understory plant communities and associated values. This project focuses on seven 50-70 year-old Douglas-fir forests in western Oregon that have been thinned to varying residual tree densities (high, moderate and variable) as part of the “Density Management Study”. Our goals are to examine how effects of density management on understory plant communities depend on climate, and quantify the effects of climate change on values of the understory plant community for a range of overstory tree densities, or forest management scenarios. Results will help us understand how to maintain the values and services the forest understory community provides in a different climate. OSU is interested in providing information that would be of interest and useful to the tribes. For example, we could look at plant species of cultural significance. To do so, OSU requests your participation in identifying plant species considered culturally significant, or valuable, and characterizing those values (as food, material, or spiritual values, for example). The species list can be found

here: <https://drive.google.com/a/oregonstate.edu/file/d/0B2D3TnGMvpYIRENxbmJrVINCa3M/view?usp=sharing> Please contact me, Dr. Julia Burton, Oregon State University, Julia.burton@oregonstate.edu, if you are interested in participating. If a plant species you are interested in is not listed, please let Julia know as soon as possible so they can try to account for it in their field sampling.

Preston suggested that the researchers involved with the project use the *Guidelines for Considering Traditional Knowledges (TKs) in Climate Change Initiatives*, which is to be an informational resource for tribes, agencies, and organizations across the United States interested in understanding TKs in the context of climate change. The TKs Guidelines could provide an approach for engaging in a collaboration with individual tribes. The Guidelines can be downloaded at: <https://climatetkw.wordpress.com/>

Linda Kruger mentioned that the Forest Service PNW Research Station is working with six Alaska Native communities to identify plant and animal species of cultural significant in the intertidal areas.

Amelia Marchand asked if this project was just specific to coastal tribes. Julie said the focus is on the coast range west of the Cascades in Oregon, though the findings might be pertinent to tribes in Washington. Amelia suggested that the model for the research might be of interest to tribes outside of their geographic focus, and sharing the general research questions they are seeking to answer might be helpful in case there are other tribes interested in mirroring the study. Tania suggested that coordination with the USDA Forest Service might be beneficial, and that the national silvicultural program might be a good place for outreach and collaboration. Finally, Don Motanic with the Intertribal Timber Council said that he would share a list of the tribal forest managers working with the Oregon coastal tribes.

FY 2015 Tribal Cooperative Landscape Conservation Program. Internships and Youth Engagement Funding

The Application Kit is available

at: <http://www.indianaffairs.gov/WhoWeAre/BIA/climatechange/index.htm>. These funds will support Internships or Youth Engagement for Climate Adaptation, Mitigation, and/or Ocean and Coastal Management Planning. **Applications are due June 22, 2015.** (*Tribal resolutions are due July 22, 2015*).

The Tribal Cooperative Landscape Conservation Program will award up to \$1.75 million in order to support federally recognized tribes, tribal organizations, and tribal colleges when supported by a tribal resolution. [Since a 30 day proposal deadline is VERY short, and a resolution takes time, tribal resolution will be accepted up to July 22, as long as a REQUEST FOR EXTENSION is included in your email toclimate.funding@bia.gov when submitting your electronic proposal on or before the June 22 due date.] Awards will support internships for youth working on projects or performing research directly related to climate change impacts, or ocean and coastal management including the Great Lakes. Rapidly changing climatic conditions are already impacting tribes and the challenges of planning for and adapting to future climate impacts span the entire range of tribal government functions and traditional use. Ocean and coastal management challenges are also creating unprecedented challenges. Tribal capacity to address climate change, and ocean and coastal planning is a long term need.

Youth engagement and practical work experience will increase tribal capacity now and in the future. This support will focus on youth engagement and management and research internships:

- Category 1. Management Internships: Employment opportunities working with tribal or BIA Trust resources managers, tribal programs, or tribal organizations to support integration of climate mitigation or adaptation planning into programs for the benefit of tribes or tribal resources.
- Category 2. Research Internships: Employment opportunities working with tribal or BIA programs or colleges to advance research to identify climate vulnerabilities, inform or perform data analysis, or address ocean and coastal management challenges.
- Category 3. Youth Engagement: Employment opportunities working with tribes, tribal colleges, or tribal organizations to support existing primary or secondary school age engagement in science, technology, engineering or traditional ecological knowledge education or engagement with a significant integrated component on climate adaptation, mitigation, or ocean and coastal management challenges for tribes and tribal values.

Cahokia Statement - <http://cahokiastatement.net/>

The Cahokia Statement on Tribal Adaptation has been assembled as a reflection of presentations made at the second [National Adaptation Forum](#) meeting that took place in St. Louis Missouri from May 12-14, 2015, as well as other recent publications, presentations and related activities by indigenous peoples in the United States and around the world. This Statement, while largely originating from the National Adaptation Forum, is not an official forum statement. It is open for endorsement by any individual or organization that wishes to support the issues and principles. To read the statement, visit: <http://cahokiastatement.net>. To endorse the statement as an individual or on behalf of an organization, visit: <http://cahokiastatement.net/endorsements/>.

House Bill 3470, the Climate Stability and Justice Act.

HB 3470 is a Greenhouse Gas Cap and Trade bill that is modeled off of California's AB 32 legislation that caps and then incrementally ratchets down greenhouse gas emissions. There are many organizations around the state that are now coordinating efforts to try and help clue legislators in to the extreme urgency of needing to pass this bill this legislative session. Many of us went to Salem to hear the expert testimony on April 14th and testify ourselves on why Oregon needs to start lowering greenhouse gas emissions NOW. I came across your connection with the Tribal Climate Change Project and thought perhaps you could help us reach out to the various tribal councils and leaders in Oregon. For more information, visit: http://www.policyinteractive.org/HB3470_1pager.pdf or here: <https://olis.leg.state.or.us/liz/2015R1/Downloads/MeasureDocument/HB3470/A-Engrossed> to read the bill in its entirety. Also, I am attaching the expert testimony that I transcribed from the April 14 legislative hearing as it also gives more information about how well California's AB32 is functioning. MoveOn petition which will be delivered to legislators and Governor Brown: <http://petitions.moveon.org/sign/support-hb-3470-to-limit>

Call for Abstracts Announcement: Sixth Annual Northwest Climate Conference

The 6th Annual Pacific Northwest Climate Science Conference will be held Nov 3-5th in Coeur D'Alene Idaho. The NW Climate Conference (formerly known as the Pacific Northwest Climate Science Conference) annually brings together more than 250 researchers and practitioners from around the region to discuss scientific findings, challenges, and solutions related to the impacts of climate on people, natural resources, and infrastructure in the northwestern United States and southwestern Canada. The theme is water year 2015 as a prototype for adaptation. Abstracts for oral and poster presentations, as well as proposals for special sessions, are **due by 11:00 pm Pacific on Friday, June 26, 2015**. Submissions are requested for a range of topics related to regional climate, climate impacts, and climate adaptation science and practice. Presentations and special sessions that connect science to management decisions and the implementation of adaptation actions are strongly encouraged. The conference focuses on the intersection between science and management. A second focus is on bringing speakers and participant from inland tribal communities, in addition to the strong representation by coastal tribes that is typically present. Note that poster submissions are considered separate from oral submissions, meaning that a lead author can submit abstracts for an oral presentation as well as a poster presentation. Please feel free to contact Eliza Ghitis, Northwest Indian Fisheries Commission at eghitis@nwifc.org. For more information on the conference and the call for abstracts, visit: <http://pnwclimateconference.org/>.

US Climate Resilience Toolkit (<https://toolkit.climate.gov/>)

Margaret Herzog with the BIA has been working to integrate tribal resources into the recently debuted US Climate Resilience Toolkit. The website features case studies of tribal adaptation efforts and tools for tribes, and is expected to be fully operational by the end of June. The website provides a diverse range of tools for tribes who may be creating climate vulnerability assessments and/or adaptation plans. <https://toolkit.climate.gov/>

Journal of Forestry Call for Papers Special Issue: Tribal Forest Management: Innovations for Sustainable Forest Management.

Native American forests and tribal forest management practices have sustained indigenous communities, economies and resources for millennia. These systems provide a wealth of knowledge and successful applications of long-term environmental stewardship and integrated, sustainable forest management. Tribal forestry has received an increasing amount of attention to provide approaches for solving our most complex issues facing natural resource managers today. Tribal forest management provides numerous examples of balancing complex, multiple objectives in an era of shrinking budgets, novel ecologic interactions, and increasing human demands on our natural resources. This special issue of the Journal of Forestry seeks to capture the broad range of forest management practices occurring in Indian country to increase general recognition of the role that tribal forest play in the greater landscape and to engage broad audiences regarding the value of tribal forests and how they can serve as models for sustainability, integrated management, resilience, and restoration.

Topics for consideration:

Articles on the following topics will be considered for publication: historical background of Indian forest management; social aspects of sustainability and tribal forest management; fire management on tribal lands and/or traditional use of fire; education, recruitment and retention of Native American foresters; climate change impacts and adaptation strategies on tribal forests; traditional ecological knowledge applications in forest management; integrated wildlife and fisheries management; innovative silviculture; non-timber forest products, ethnobotany, and cultural use management; tribal forestry enterprises and forest products; ecological restoration; and successful collaborations and partnerships. The geographic scope of the articles will primarily focus on the indigenous forestry in the United States and Canada; however, papers addressing indigenous forestry in other countries will also be considered. Papers including tribal partners as co-authors are encouraged. Papers for this special issue can be written for any of the Journal of Forestry article styles which include: Editorial Features (commentaries, letters, discussions, exploring the roots, new releases, and picture of the past) and Scientific Articles (research articles, review articles, practice of forestry, brief communications, and field notes). Please refer to the *Guide for Authors* section on the Journal of Forestry webpage for information on how to format submissions <https://www.safnet.org/publications/jof/guideforauthors.cfm>.

Abstract Submission Deadline: September 30, 2015

Full Papers Due: March 4, 2016

Anticipated Publication: February 2017

All correspondence and submissions should include the statement: [JOF Special Issue Tribal Forest Management](#). Titles, abstracts and author information should be submitted to Mike Dockry (mdockry@fs.fed.us). Final papers are to be submitted to the Journal of Forestry online submission system (<https://www.safnet.org/publications/jof/>). Please contact guest editors Mike Dockry (mdockry@fs.fed.us) or Serra Hoagland (sjhoagland@fs.fed.us) with questions about the special issue or potential article topics.

Webinar: Regional Downscaling of Climate Modeling

Monday July 6, 2015, 1:30-3:00 pm

Speaker: Dr. Guillaume Mauger, University of Washington, Climate Impacts Group

- Why do we need to downscale?
- Downscaling: statistical and dynamical – pros and cons of each

- Who is doing downscaling in the PNW, and how do the methods differ?

Webinar connection information:

- <https://wadismetings.webex.com/wadismetings/j.php?MTID=mec9319a0bd8f29c6d8edc4a41c453730>
- If requested, enter your name and email address.
- If a password is required, enter the meeting password: Ho7\$stuff
- Click "Join".
- To view in other time zones or languages, please click the link: <https://wadismetings.webex.com/wadismetings/j.php?MTID=m656b03b549d7220a808dbe67fe47b11b>
- To join the audio conference only: Call-in toll-free number (US/Canada): [1-877-668-4493](tel:1-877-668-4493); Call-in toll number (US/Canada): [1-650-479-3208](tel:1-650-479-3208); Access code: 927 138 682

General Updates

Request for Proposals: A training series covering federal/tribal relations and sacred sites protection

A Request for Proposals (RFP) to bid on developing a program of facilitated learning engagements ([AG-3187-S-15-0034](#)) for the USDA Forest Service was posted on [FedBizOpps.gov](#). This solicitation is to find a contractor to develop a training series covering federal/tribal relations in general and sacred sites protection in specific. The RFP is not open for long; proposals are due June 29, 2015.

NOAA Grants to Improve Coastal Community Resilience:

Details on the grant programs can be found at the NOAA Fisheries Coastal Ecosystem Resiliency Grants webpage and the NOAA Ocean Service Regional Coastal Resilience Grant Program webpage: <http://coast.noaa.gov/resilience-grant/>. Proposals should demonstrate socioeconomic benefits associated with restoration of healthy and resilient coastal ecosystems, support healthy fish populations, and demonstrate collaboration among multiple stakeholders. [NOAA Coastal Ecosystem Resiliency Grants](#) are due **July 2nd** and NOAA [Regional Coastal Resilience Grants](#) are **due July 24th**. To apply visit <http://www.grants.gov/>

2016 Climate Solutions University - Now Accepting Applications

Protect natural resources and people while becoming a leader in the field of climate adaptation! Climate Solutions University has helped over 30 communities create adaptation plans that are ready for implementation. Participants foster positive, sustainable connections between people, economic, and ecosystem health! This is done through market solutions based in solid research. 2016 Climate Solutions University runs from February - November and we are excited to see your applications! Contact Recruitment Coordinator Josh Dye atjosh@mfpp.org or 612-481-8059 to get started.

Climate Change Adaptation in United States Federal Natural Resource Science and Management Agencies: A Synthesis

Federal agencies with responsibility for natural resource management are mandated to consider climate change in planning and projects, and to begin preparing for the effects of climate change. Federal agencies are making significant progress in climate change adaptation, although lack of financial resources has slowed implementation of climate-focused activities. This report reviews adaptation activities in several federal agencies. <http://www.globalchange.gov/browse/reports/climate-change->

Federal Advisory Committee Issues Recommendations for Addressing Climate Change to NCCWSC & CSCs.

The report from the Advisory Committee on Climate Change and Natural Resource Science recognizes the U.S. Geological Survey and the Department of the Interior for achieving significant accomplishments since the establishment of the NCCWSC and CSCs and provides several key recommendations to clarify, focus, and enhance the program's efforts. The committee also recommends that the NCCWSC/CSC program should expand its capacity to work closely with partners, including states, tribes and other indigenous groups, and environmental organizations, both within DOI and with other federal agencies. A "how-to guide" for "actionable science" is included as an appendix to the Committee's report. The report also includes [two other documents](#) to which committee members contributed: one is a summary of a primer on climate change and indigenous peoples and the other provides guidelines for considering traditional knowledge in climate change initiatives. <https://nccwsc.usgs.gov/content/federal-advisory-committee-issues-recommendations-addressing-climate-change-nccwsc-cscs>

****Job Announcement**** [Oregon Metro Intertribal Cultural Resource Specialist](#) www.oregonmetro.gov/jobs.

One part-time, limited duration position; 32 hours/week
\$18.53 - \$24.83/hour
Deadline: July 2, 2015

The Intertribal Cultural Resource Specialist will serve as a liaison with the urban Native American Community in Portland to increase opportunities for Native people to experience the region's natural areas to help preserve unique tribal culture and identity. Metro supports efforts to expand opportunities for all people to enjoy Metro's parks and natural areas.

Call for Submissions of Indigenous and Local Knowledge:

The Intergovernmental Platform on Biodiversity and Ecosystem Services (IPBES) has put out a call for submissions of Indigenous and Local Knowledge for Regional Assessments of Biodiversity and Ecosystem Services. The assessments focus on one or more of the following themes: land degradation & restoration, sustainable use & conservation, and invasive alien species & their control. The deadline for submissions for the Americas is July 15, 2015. <http://www.unesco.org/new/en/natural-sciences/priority-areas/links/biodiversity/projects/indigenous-knowledge-within-the-framework-of-ipbes/call-for-submissions-regional-assessments-of-biodiversity-and-ecosystem-services/>

Reopening of Nomination Period for Members of ACCCNRS:

Nominations are being accepted for membership on the federal Advisory Committee on Climate Change and Natural Resource Science (ACCCNRS). Written nominations must be received by **July 8, 2015**. ACCCNRS advises the Secretary of the Interior on the operations of the U.S. Geological Survey's National Climate Change and Wildlife Science Center and the eight Department of the Interior Climate Science Centers. <https://nccwsc.usgs.gov/acccnrs>

UPCOMING EVENTS

June 18, 2015. 11 am Pacific. Webinar: EPA Grants Award Process. EPA's Office of Grants and Debarment is hosting a webinar for the EPA grants community. The webinar will cover grants topics,

including: how to find and apply for grant opportunities; EPA's new [Grants.gov](http://www.epa.gov/grants) requirement; and preparing a proper budget detail. In addition, we will be hosting a Q&A session during the second half of the webinar. <http://www.epa.gov/ogd/training/grantaward.htm>

June 19, 2015. 12 pm AKT/1 pm Pacific. Webinar: [June 2015 National Weather Service Alaska Climate Forecast 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. We will review recent climate conditions around Alaska, review some forecast tools and finish up the Climate Prediction Center's forecast for July and the remaining summer.

<https://events->

na11.adobeconnect.com/content/connect/c1/1083313451/en/events/event/shared/1178050388/event_landing.html?sco-id=1336867350& charset =utf-8

June 22, 2015. 12 pm Pacific. Webinar: [Tribal Ecological Knowledge \(TEK\) and Its Value for](#)

[Environmental Health Sciences](#). Tribal Ecological Knowledge (TEK) is traditional knowledge and, like Western science, is based on the accumulation of observations. It entails a cumulative body of knowledge transmitted through generations, as well as beliefs about how people fit into ecosystems (Berkes 2000). TEK is holistic in outlook and adaptive by nature and has been gathered by generations of observers whose lives depend on it (Ohmagari and Berkes 1997). Tribal elders reintroduced it to promote a better understanding of the historic relationship between people and their environment. Interest in TEK is growing among investigators and federal funders since it represents valuable local knowledge with the potential to complement research that addresses tribal environmental health concerns and disparities. This webinar discusses TEK's value from the perspective of representatives of indigenous communities, and it provides an opportunity for thoughtful dialogue about traditional knowledge and how it should inform the research process. The webinar will include an overview of TEK, as well as presentations about (a) the development of Indigenous Health Indicators that reflect a holistic view of health held by tribal communities and (b) how TEK is used to understand the relationship between toxic exposures, health, and the environment in the Arctic. Register

at: http://tools.niehs.nih.gov/conference/peph_webinar/

June 23, 2015, 11:00 am - 12:30 p.m. Pacific. Webinar: [Extreme Weather Events and Climate Change](#).

Presenter: Bob Rabin, National Oceanic and Atmospheric Administration (NOAA). The presentation will review known variability in extreme weather such as excessive heat, cold waves, floods, droughts, hurricanes, severe thunderstorms and tornadoes. Projections and uncertainties of how these hazards might change due to global warming will be reviewed. Please register

at: <https://attendee.gotowebinar.com/register/7695983626299314177>

June 23 2015. 12 pm Pacific. Webinar: [An Introduction to CRAVe: A Climate Registry for the Assessment of Vulnerability](#).

The Climate Registry for the Assessment of Vulnerability (CRAVe) is a new web-based community resource that houses information on assessments of the vulnerability of various natural and human resources to a changing climate. This webinar will provide an overview of the purpose of CRAVe and outline key features of the tool, including the basic reporting elements and search functions. To Register: <https://nccwsc.usgs.gov/webinar/472>. CRAVe is a new online platform, administered by US Geological Survey and EcoAdapt, that houses information on assessments of the vulnerability of various natural and human resources to a changing climate. Users can enter information about their vulnerability assessments and search for assessments for specific geographic regions, assessment targets or endpoints, managing entity, and other factors.

June 23, 2015. 10 am AKDT/11 am Pacific. Webinar: [Changing extreme streamflow patterns in boreal forest watersheds of Alaska](#)

June 23-24, 2015. Training: [Extreme Events and Climate Adaptation Planning Workshop](#). **Portland, OR.** The U.S. Environmental Protection Agency's (EPA) Climate Ready Water Utilities (CRWU) initiative is offering a workshop for drinking water, wastewater and stormwater utilities that focuses on understanding and adapting to challenges from extreme events, featuring training on the Climate Resilience Evaluation and Awareness Tool (CREAT). <https://www.thetestportal.com/climateadaptation>

June 24, 2015. 12:00 pm Pacific. Webinar: [Building Climate Resilience in Urban Vulnerable Populations: Effective Marketing and Communications Strategies for Social Resiliency in Climate Adaptation](#)

June 24, 2015, 11:00 a.m. - 12:30 pm Pacific. Webinar: [Impacts of Climate Change on Tribal Health](#), *Presenters are Lesley Jantarasami, U.S. EPA, Office of Atmospheric Programs, Climate Change Division and Mike Kolian, U.S. EPA, Office of Atmospheric Programs, Climate Change Division.* Climate change, together with other natural and human-made health stressors, threatens our health and well-being in many ways. This webinar will provide an overview of climate-related health impacts facing tribes and indigenous peoples in the United States, drawing mainly from the results of the Third National Climate Assessment. This webinar will also present work by EPA to compile a set of key indicators related to the causes and effects of climate change into a report entitled: Climate Change Indicators in the United States. The presentation will focus on climate-related health indicators and how the report highlights the far-reaching significance of these changes and their possible consequences for people, the environment, and society. Please register at: <https://attendee.gotowebinar.com/register/4202798900971276545>. After registering, you will receive a confirmation email containing information about joining the webinar.

June 26, 2015. 11:00 am-12:30 pm Pacific. ITEP Webinar: Extreme Weather Events and Climate Change. Hosted by the Institute for Tribal Environmental Professionals, NAU. The presentation will review known variability in extreme weather such as excessive heat, cold waves, floods, droughts, hurricanes, severe thunderstorms and tornadoes. Projections and uncertainties of how these hazards might change due to global warming will be reviewed. <https://attendee.gotowebinar.com/register/7695983626299314177>

June 29, 2015, 11:00 a.m. - 12:30 pm Pacific. Webinar: [Climate Change Impacts on Fish and Wildlife](#). *Presenter: Kurt Johnson, National Climate Change Scientist, US Fish and Wildlife Service.* The Earth's climate is changing. In some places such as the Arctic, the change is rapid and profound, while in other areas change has been less dramatic and more gradual. But virtually everywhere, climate change has – and will continue to – impact fish, wildlife, and plants and the habitats upon which they depend through effects on species' distribution and abundance, community composition, productivity, timing of life history events, and other biological and ecological characteristics. Some species are even threatened with extinction. Not only are fish, wildlife, and plants inherently worthy of conservation, they provide valuable ecosystem services – including jobs, food, clean water, storm protection, carbon sequestration, health benefits and many others – that support people, communities and economies across the nation every day. Climate change impacts are expected to increase with continued changes in the planet's climate system. Action is needed now to help safeguard fish, wildlife, and plants and the communities and economies that depend on them. Please register at: <https://attendee.gotowebinar.com/register/5056697223288190977>. After registering, you will

receive a confirmation email containing information about joining the webinar.

June 29-July 1, 2015. Rising Voices 3 Workshop. Boulder, CO. Rising Voices 3 workshop will have the theme of Learning and Doing: Education and Adaptation through Diverse Ways of Knowing and be held at the National Center for Atmospheric Research (NCAR). The workshop will occur in collaboration with the Engineering for Climate Extremes Partnership, which aims to improve methods of incorporating resilience and cultural values explicitly in future planning programs. <http://www2.mmm.ucar.edu/projects/RisingVoices/>

July 6, 2015. 1:30 pm Pacific. Webinar: Regional Downscaling of Climate Modeling.

Dr. Guillaume Mauger, University of Washington, Climate Impacts Group.

<https://wadismetings.webex.com/wadismetings/j.php?MTID=mec9319a0bd8f29c6d8edc4a41c453730>

July 13-17, 2015. Signs of the Land II: Reaching Arctic Communities Facing Climate Change Academy. Howard Luke Gaalee'ya Camp near Fairbanks, AK. The Signs of the Land Academy will explore the PoLAR Climate Change Education Partnership (CCEP) activities and climate change information through the cultural lens of Arctic communities in Alaska. Participants will attend a six-day camp to gain insight and an understanding about local climate change observations and knowledge from participating Alaska Native elders, and learn about climate change interactive resources. Participants will design an individual plan to share and adapt the activities to fit the needs of their particular community. Applications are being accepted now with a deadline of June 29, 2015.

<http://thepolarhub.org/project/reaching-arctic-communities-facing-climate-change-react>

July 22-23, 2015. Training: Fostering Climate Resilient Coastal Communities. Irvine, CA. Learn more about how to build resilient coastal communities with available communication and planning tools, funding strategies, and resilient coastal designs.

http://files.ctctcdn.com/d332aa07201/33e441fa-c660-4f93-8c05-30645b6a5897.pdf?utm_source=May+19+2015+Newsletter&utm_campaign=Constant+Contact&utm_medium=email

July 27-29, 2015. Workshop: New Mexico Community-Scale Tribal Renewable Energy Workshop. Albuquerque, NM. The U.S. Dept. of Energy (DOE) Office of Indian Energy, with support from the National Renewable Energy Laboratory (NREL), is offering a series of interactive workshops that will walk participants through the process for developing community-scale renewable energy projects on tribal lands. The workshops offer a unique opportunity for participants to learn from renewable energy project experts, get hands-on experience using technology resource assessment tools, explore project case studies, and hear about lessons learned from other Tribes. Workshop participants will learn about the five steps necessary to develop and finance renewable energy projects on tribal lands. <http://www.energy.gov/indianenergy/events/new-mexico-community-scale-tribal-renewable-energy-workshop>

Aug 16-21, 2015 – Eatonville, WA. [Northwest Climate Science Center Climate Boot Camp 2015](#)

August 17-20, 2015. Conference: Tribal Lands and Environment Forum Minneapolis, MN. Hosted by the Institute for Tribal Environmental Professionals, National TWRAP Steering Committee, and USEPA's Office of Solid Waste and Emergency Response (OSWER). The forum will feature special trainings, field

trips, and breakout sessions focused on solid/hazardous waste management, brownfields, UST/LUSTs, Superfund sites, and emergency response, as well as sessions focused on water quality, drinking water, and habitat restoration (including wetlands, streams and fisheries) and on climate change. http://www4.nau.edu/itep/conferences/confr_tlf.asp

August 24-25, 2015. Conference: California Climate Change Symposium 2015. Sacramento, CA.

Convened by the California Natural Resources Agency, the California Environmental Protection Agency and the Governor's Office of Planning and Research. 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.

<http://californiascience.org/>

September 24-25, 2015. National Tribal Energy Summit. Washington D.C. For more information, [click here](#).

November 4-5, 2015. Sixth Annual Pacific Northwest Climate Science Conference, Coeur d'Alene, ID. The PNW Climate Science Conference annually brings together more than 250 researchers and practitioners from around the region to discuss scientific results, challenges, and solutions related to the impacts of climate on people, natural resources, and infrastructure in the Pacific Northwest. It is the region's premier opportunity for a cross-disciplinary exchange of knowledge and ideas about regional climate, climate impacts, and climate adaptation science and practice.

NEWS, PUBLICATIONS AND RESOURCES

[Alaskans Sharing Indigenous Knowledge \(AKSIK.org\) project](#). A science and advocacy project documenting the impacts of climate change in two Native communities in Alaska and communicating their adaptation needs - now has a new film on its website. The new video entitled Stay and Defend is the debut film by David Smith and documents how this village of 250 people is struggling to build a protective berm to guard against increasingly severe storms. You can view the film at: <http://aksik.org/content/stay-and-defend>. This is the sixth film on the impacts of climate change on Native peoples on our website. Please share with other interested networks and parties.

[The Arctic Adaptation Exchange](#)

The Arctic Adaptation Exchange (AAE) facilitates knowledge exchange on climate change adaptation in the Arctic, and serves as a central information hub for communities, researchers and decision-makers in the public and private sectors. The AAE is a platform for individuals and organizations focused on northern issues to explore how others in the Arctic region have responded to the challenges and opportunities presented by climate change; share experiences and information on climate change impacts and adaptation initiatives and tools; and connect with others who have experience and knowledge.

Adaptation Workbook (NIACS)

This is a new web-based tool by the Northern Institute of Applied Climate Science (NIACS). The Adaptation Workbook is a structured process to consider the potential effects of climate change on forest ecosystems and design forest management and conservation actions that can help prepare for changing conditions. The process is completely flexible to accommodate a wide variety of geographic locations, scales, forest types, management goals, and ownership

types. <http://www.adaptationworkbook.org/>

Climate Registry for the Assessment of Vulnerability (CRAVe) (NCCWSC)

The USGS National Climate Change and Wildlife Science Center worked with the non-profit EcoAdapt and other partners to develop this tool which will house metadata on climate change vulnerability assessments from across the nation and will be made available for searching by the general public. <https://nccwsc.usgs.gov/crave/>

Lessons Learned by Communities for Communities

EPA's Local Climate and Energy Program released several new resources for local climate and energy program staff. This latest round of resources are written by communities, for communities. Each resource was driven by community needs, inspired by actual implementation experiences, and informed by staff who have developed successful climate and energy programs. Each resource provides concrete steps for communities to follow when building or growing a climate and energy program: the focus is on practical, how-to implementation information: Local Climate Action Framework: A Step-by-Step Implementation Guide: <http://epa.gov/statelocalclimate/local/implementation/>; Effective Practices for Implementing Local Climate and Energy Programs

Tip Sheets: <http://epa.gov/statelocalclimate/local/showcase/csc-learn.html>, Local Climate and Energy Program Model Design Guide: <http://epa.gov/statelocalclimate/local/showcase/csc-learn.html#designguide>

Local Government Climate Adaptation Training (USEPA)

The U.S. Environmental Protection Agency released an online training module to help local government officials take actions to increase their communities' resiliency to a changing climate. The virtual training, which was informed by the National Climate Assessment released last year, was developed with advice from EPA's Local Government Advisory Committee and is the latest addition to the U.S. Climate Resilience Toolkit announced in November 2014. It includes successful examples of effective resilience strategies that have been implemented in cities and towns across the country.

<http://www.epa.gov/localadaptationtraining/>

NW Climate Magazine

This is a new annual publication from the Northwest Climate Science Center, the Climate Impacts Research Consortium and the North Pacific Landscape Conservation Cooperative aimed at sharing stories about Northwest climate research.

<https://www.nwclimatescience.org/nw-climate-magazine>

2014 Highlights of Progress and 2015 Implementation Plan for the National Action Plan: Priorities for Managing Freshwater Resources in a Changing Climate

This report highlights progress made in implementing the National Action

Plan (https://www.whitehouse.gov/sites/default/files/microsites/ceq/2011_national_action_plan.pdf)

and describes the specific tasks that federal agencies are planning to undertake in 2015.

http://acwi.gov/climate_wkg/NAP_2014_implementation_plan&2013_highlights_final3-24-14a.pdf

New Publication: Climate Change Adaptation in Indian Country: Tribal Regulation of Reservation Lands and Natural Resources.

<http://web.wmitchell.edu/law-review/wp-content/uploads/2015/03/3.-Ford-Website.pdf>

ITEP video Adapting to Change: The Institute for Tribal Environmental Professionals (ITEP) produced the

video Adapting to Change with assistance from Jeremy Scott, a graduate student in Northern Arizona University's School of Communication. The filming occurred at ITEP's Climate Change Adaptation training in September 2014 in Portland, OR. The film highlights climate change impacts on tribes and their resources in the Pacific Northwest and Alaska, adaptation, and the training. The video and the training were made possible with funding support from the USDA Forest Service PNW Research Station. <http://vimeo.com/118150835>

ITEP Tribal Climate Change Fact Sheets: The Institute for Tribal Environmental produces 2-page fact sheets that focus on climate change impacts, adaptation strategies, and other relevant topics. They may be used in outreach with tribal government staff, leadership and communities. Two recent fact sheets focus on climate change mitigation and solid waste and climate change and human health and are attached below. Fact sheets are available at: http://www4.nau.edu/tribalclimatechange/resources/res_factsheets.asp

Recorded Webinar: Chugachmiut, on berry risk mapping and modeling in Southcentral Alaska.

The North Pacific Landscape Conservation Cooperative Science-Management Webinar with Nathan Lojewski, Forestry Manager of the Chugachmiut, on berry risk mapping and modeling in Southcentral Alaska took place on April 8, 2015. The webinar is now available for viewing on [YouTube here](#). You can [learn more about the project](#) on the NPLCC website.

REGIONAL AND NATIONAL CLIMATE CHANGE RESOURCES, NEWSLETTERS AND CALENDARS

[ITEP Tribes and Climate Change Newsletter](#)

[PNW Tribal Climate Change Project](#) and [Funding Guide](#)

Climate Adaptation Knowledge Exchange (CAKE): events: <http://cakex.org/community/events>.

[Northwest Climate Science Center](#) and [NPLCC Northwest Climate Digest](#); [NW CSC Calendar](#)

Northwest Climate and Related Data

Resources: https://www.nwclimatescience.org/nw_data_resources

[USDA Climate Hubs](#)

[EPA's Stormwater Calculator](#)

[EPA's Climate Resilience Evaluation and Awareness Tool](#)

Climate Resilience Toolkit: <http://toolkit.climate.gov/tools>

[Columbia River Intertribal Fish Commission Climate Change Resources](#)

[Climate Change Resource Center Education Modules](#): <http://www.fs.usda.gov/ccrc/climate-basics/education>.