

NPLCC INTERIM PROGRESS REPORT

December 28, 2016

1. ADMINISTRATIVE INFORMATION:

Agreement recipient: University of Oregon Environmental Studies Program

Project manager / contact information: Kathy Lynn, kathy@uoregon.edu, 541-346-5777

Project title: North Pacific Landscape Conservation Cooperative Tribal Climate Change Partnership

Cooperative Agreement number: F15AC00871

DUNS #: 079289626

Date of report: December 28, 2016

PUBLIC SUMMARY

As tribes work to adapt to climate impacts, they face increased need for useful, accessible scientific data and partnerships with scientists and scientific organizations. In order to facilitate increased tribal access to scientific resources, the TCCP has developed the Tribal Climate Change Guide (TCCG) (available [at http://tribalclimateguide.uoregon.edu](http://tribalclimateguide.uoregon.edu)). This guide catalogs information about climate scientists, scientific organizations in the Northwest, climate education resources, climate literature related to Indigenous peoples' issues, upcoming grant and event announcements, and climate adaptation resources and tools. To develop the database, the TCCP drew on information from universities, research institutes, government agencies, and existing, non-published climate scientist directories developed by the North Pacific Landscape Conservation Cooperative (NPLCC) and others. The Tribal Climate Change Guide is an expansion of the original Funding Guide, and now includes searchable information on climate scientists, adaptation plans, education and outreach materials, tribal climate publications and more. The creation of the online Tribal Climate Change Guide was made possible with generous support from the North Pacific Landscape Conservation Cooperative, as well as other partners, including the USDA Forest Service Pacific Northwest Research Station, the Affiliated Tribes of Northwest Indians and the Bureau of Indian Affairs.

PURPOSE AND OBJECTIVES:

Broadly, the Online Tribal Climate Change Guide is aimed at making information about climate change resources directly available to tribes in the United States. Specifically, the Guide seeks to provide searchable and easily usable information about grants and funding resources that tribes are eligible to apply for, as well as climate change educational and planning resources, information on events and job opportunities, and other information that may be relevant to tribes that are working to address climate change.

METHODS, ORGANIZATION AND APPROACH:

The TCCP worked with the University of Oregon College of Arts and Science Internet Technology Department (CASIT) to facilitate technical development and support for the online Database. We have developed a cleaner, more efficient and expanded database by using in-house coding, as opposed to the earlier database, which relied on a customized Google Spreadsheet. The resulting database is more powerful, can support multiple sub-categories, and is more secure. Additionally, the new format has allowed us to highlight partner organizations more prominently; we added logos for those supporting the TCCG, including the UO, NPLCC, the USDA Forest Service Pacific Northwest Research Station, the Affiliated Tribes of Northwest Indians and the Bureau of Indian Affairs.

Through the collaboration with the North Pacific Landscape Conservation, we hired a student dedicated to researching and updating content for the Tribal Climate Change Guide. The TCCP student regularly updates and maintains the database and make efforts to publicize the database to tribes and tribal

organizations. We are using Google Analytics to track the success of these efforts; by tracking website traffic we hope to find ways to improve the Guide in the future.

To develop content for the Guide, we sent out requests to numerous climate science organizations, including Climate Science Centers, Landscape Conservation Cooperatives, Regional Integrated Sciences & Assessments (RISA) programs, as well as tribes and intertribal organizations such as the Columbia River Intertribal Fish Commission and the Northwest Indian Fisheries Commission. The original requests focused on Northwest scientists and agencies, but expanded to include national scientists and resources over the past year.

CONTENT OF THE ONLINE TRIBAL CLIMATE CHANGE GUIDE

Originally, the content of the Guide focused exclusively on funding programs. The Expansion of the guide also led to new content and information. Categories included in the guide are:

- [Funding](#): The Tribal Climate Change Funding Guide provides up-to-date information on grants, may assist tribes in addressing climate change through a broad range of sectors. Information on grants and funding includes deadlines, geography, eligibility, contacts and descriptions of the types of awards.
- [Tribal Adaptation Plans](#): Tribes throughout the United States are developing and implementing tribal climate change adaptation plans and climate vulnerability assessments. Search this list for examples of tribal climate change adaptation plans, as well as other plans and planning resources that may be useful reference guides.
- [Climate Programs](#): There are a growing number of tribal programs, government and non-government agencies and programs addressing climate change across the United States. This page includes key tribal and U.S. government programs addressing climate change.
- [Tribal Profiles](#): These climate change resources include a wide-range of materials, from profiles of tribal climate change efforts around the United States, fact sheets that focus on climate change impacts, adaptation strategies, and other relevant topics, and planning resources for developing climate change vulnerability assessments and adaptation plans. Additional tribal climate change planning resources can be found at these sites:
 - Institute for Tribal Environmental Professionals - Tribes and Climate Change Program: <http://www7.nau.edu/itep/main/tcc/Home/>
 - U.S. Climate Resilience Toolkit: <https://toolkit.climate.gov/>
 - Bureau of Indian Affairs Climate Change Program: <http://bia.gov/WhoWeAre/BIA/climatechange/>
- [Scientists](#): The number of scientists engaged in studying climate change is growing exponentially. This page is designed to help you identify climate scientists conducting research in your region and in specific subject areas. All information about climate scientists is derived from publically available sources. Tribes and non-tribal entities engaging in climate science partnerships may also seek information on protection traditional knowledges in those research initiatives. Resources that may be of assistance include [Guidelines for Considering Traditional Knowledges in Climate Change Initiatives](#) and the [role](#) of tribal Institutional Review Boards. An example is this [Institutional Review Board Manual for the Northwest Indian College](#).

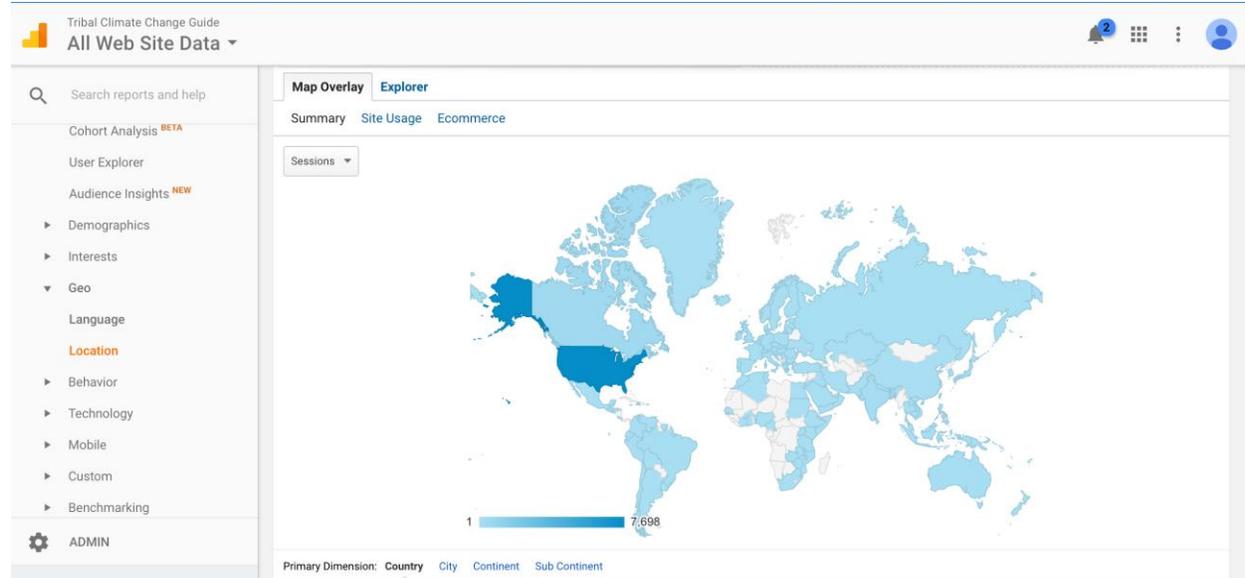
- [Publications](#): Tribal leaders, scholars and others working with tribes on climate change issues are increasingly engaged in bringing tribal voices to academic literature, agency climate reports, and other publications to demonstrate the impacts of climate change on indigenous communities in the United States, and the measures tribes across the country are taking to address climate change. Abstracts and materials provided by the publications are included in the description.
- [Climate Education](#): Many organizations have developed educational resources to both inform the public about climate impacts, and support curriculum for educators. This list includes climate, environmental and scientific educational resources intended to broaden understandings of climate change and climate impacts. This page also includes links to videos and educational talks relevant to tribal climate change issues.
- [Disaster Resources](#): This page includes information about disaster management and planning resources that may assist tribes in addressing climate-related disasters.
- [Climate Jobs](#): This page includes information on climate-related job announcements, fellowships and internships that may be of interest to tribes.
- [Events](#): There are several climate change events calendars with detailed information about upcoming events, including [Institute for Tribal Environmental Professionals Tribal Climate Change Calendar](#), the [North Pacific Landscape Conservation Cooperative Calendar](#), and the [Northwest Climate Science Center Calendar](#). We have also included a list of upcoming events that may be of particular interest to the Pacific Northwest Tribal Climate Change Network. Please use the links above for detailed calendars including regional and national events.

PROJECT RESULTS:

Our primary method for measuring use of the Guide is through Google Analytics. The table below illustrates user frequency since the launch of the Online Guide in November 2015. Many sessions include multiple page views, suggesting that users are not only visiting the webpage, they are exploring it. By expanding the Guide, we have created a “one stop shop” for climate adaptation resources. Anecdotally, we have received numerous emails over the past year from people who used the guide for information about tribal funding, resources and climate change. In the future, a survey could be generated to measure the effectiveness of the guide in terms of the content and usability.

Time Period	Total Users	Pageviews	Avg. Pages per session
November – December 2015	934	4271	3.37
January – March 2016	1453	5070	2.66
April – June 2016	1678	6499	2.98
July – September 2016	1510	5023	2.28
October – December 2016	1809	5506	2.26

Map 1 below illustrates the geographic range of “visitors” to the site between November 2015 – December 2016. Google Analytics documents that while 77% of visitors to the site are in the United States, Canada (4%), the United Kingdom (1.93%), India (1.78%), Brazil (1.16%), Germany (<1%), Australia (<1%), the Philippines (<1%), Italy (<1%) and Spain (<1%) are among some of the countries represented by other visitors to the site.



PUBLICATIONS AND OUTREACH:

The primary mechanism for outreach about the Tribal Climate Change Guide has occurred through webinars, tribal newsletters and the monthly Pacific Northwest Tribal Climate Change Network conference calls, where we highlight recently posted information. The Institute for Tribal Environmental Professionals includes a link to the online guide in it’s monthly newsletter, and numerous tribal and climate organizations include links to the Tribal Climate Change Guide. In addition, the following presentations have been made about the Guide:

The U.S. Climate Resilience Toolkit. The U.S. Climate Resilience Toolkit includes a description of the Tribal Climate Change Guide and link to the Guide here: <https://toolkit.climate.gov/tool/tribal-climate-change-guide>.

December 17th, 2015. Alaska Tribal Climate Change Webinar. This webinar for Alaskan tribes introduced new online resources to help Tribes develop their climate change programs. This webinar featured presentations on: the U.S. Climate Resilience Toolkit, the University of Oregon’s online tribal guide to climate change funding and EPA’s new video project "Alaskan Voices on Climate." This webinar is hosted by the Institute for Tribal Environmental Professionals (ITEP) and the US EPA, Region 10. Kathy Lynn presented the Online Tribal Climate Change Guide and gave a live demonstration of how to use the guide.

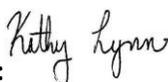
March 28, 2016. Climate Impacts Research Consortium, Corvallis, OR. Presentation on Indigenous Perspectives on Climate Change, Science and Resources and Traditional Knowledges. Kathy shared information on the Tribal Climate Change Guide and asked for more entries from climate scientists in the region.

April 25, 2016 Climate Change and Indigenous Peoples Lecture at the University of Oregon. The Pacific Northwest Tribal Climate Change Project co-sponsored and organized the [2016 Climate Change and Indigenous Peoples Lecture](#), which featured Maxine Burkett and Elizabeth Kronk Warner. The event took place on April 25, 2016 at the Many Nations Longhouse and explored Tribal sovereignty, traditional knowledges and climate-induced change among Indigenous peoples in the United States. The Many Nations Longhouse was filled to capacity, with over 100 people in attendance. [Wisdom of the Elders](#) recorded the lecture, which is available here: <https://vimeo.com/172984433>. The speakers were also interviewed for the UO Media Channel and discussed how climate change impacts indigenous communities on Pacific Islands and in the Arctic, and the role law can play in planning for adaptation to loss of resources and land. That recording is available here: <http://media.uoregon.edu/channel/archives/10798>

April 27-28, 2016. Clean Water Act Training. Coquille Indian Tribe Mill Casino and Hotel. Presentation about the PNW Tribal Climate Change Project, with a focus on tribal resources, including Tribal Climate Change Profiles, Guidelines for Considering Traditional Knowledges in Climate Change Initiatives and the Online Tribal Climate Change Guide.

June 27, 2016. U.S. Institute for Student Leaders from Europe at the University of Oregon. Presentation about the impacts of climate change on indigenous peoples and the Pacific Northwest Tribal Climate Change Network and resources being made available to tribes through the Online Tribal Climate Change Guide.

September 14-15, 2016. 2nd Annual Tribal Leaders Summit on Climate Change Leaning into Our Resilience: Adapting Our Way. Hosted by the Lummi Nation. The Pacific Northwest Tribal Climate Change Project gave a presentation about the Network, the online funding guide and facilitated discussion about tribal climate change policy principles and priorities.

Signature: 

Date: December 28, 2016

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