

ITEP's Climate Change Trainings & Resources for Tribes

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Institute for Tribal Environmental Professionals
Northern Arizona University



Alaska Tribal Climate Change Webinar
November 15, 2012

Presentation Overview

- Overview of ITEP
- Climate Change Training
- Resources for Tribes



Institute for Tribal Environmental Professionals (ITEP)

- Northern Arizona University, Flagstaff, AZ
- Mission: ITEP serves tribes through outstanding, culturally-relevant education and training that increase environmental capacity and strengthen sovereignty
- ITEP has served over 500 tribes nationally in 20 years
- ITEP Programs: Air Quality, Waste Management, Climate Change, K-16 Environmental Education and Outreach, Tribal Clean Energy Resource Center



San Francisco Peaks, Flagstaff, AZ



Climate Change Training

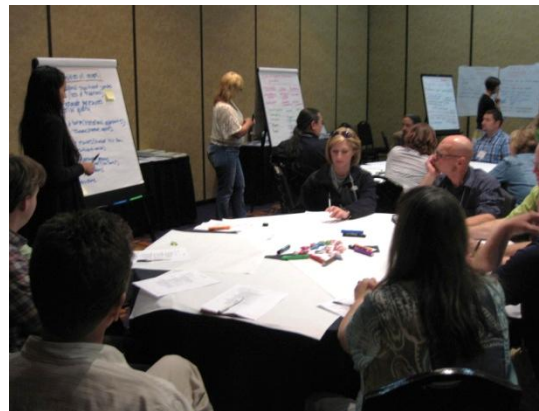
- *Climate Change Adaptation Planning*

Upcoming :

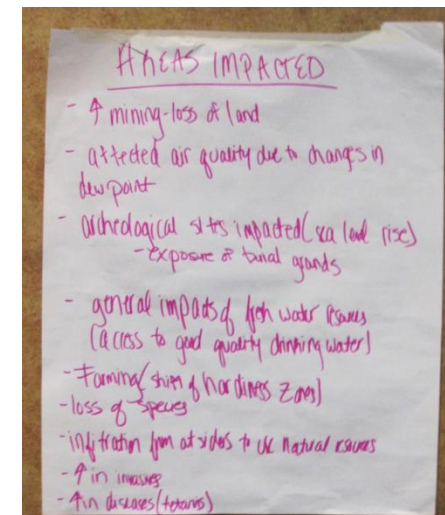
- February 19-21, 2013, Pueblo of Santa Ana, NM
- May 14-16, 2013, Glennallen, AK
- ?September, Oregon (TBD)



*Climate Change Adaptation Planning
Missoula, MT, September 2012*



*Climate Change Adaptation Planning
Oneida, WI, June 2012*



Climate Change Webinars

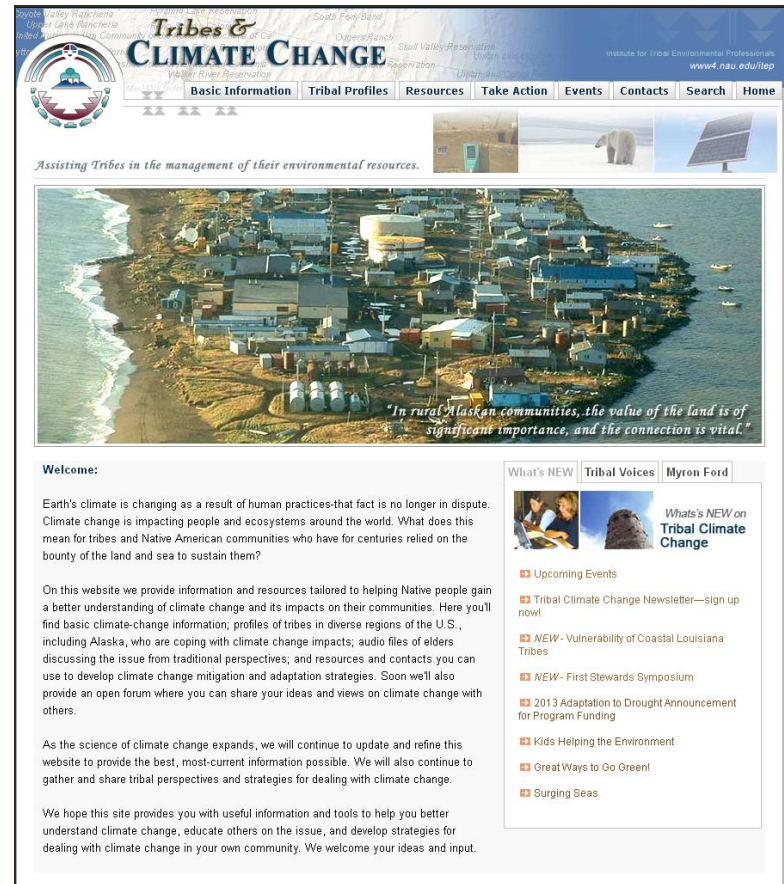
- AK-focused quarterly webinars, in collaboration with USEPA Reg.10
- Other webinars -- general tribal audience
- Archived at:
http://www4.nau.edu/itep/climatechange/tcc_webinars.asp



Tribes & Climate Change Website

- Fundamental Information
- Tribal Profiles
- Resource Library
- Take Action
- Upcoming Events

<http://www4.nau.edu/tribalclimatechange/>



Tribal Climate Change Newsletter

- Delivered monthly by email
- ITEP CC Program News
- In the News
- Technical Resources
- Funding Opportunities
- Upcoming Events

Sign up by sending email to:
susan.wotkyns@nau.edu

**NORTHERN ARIZONA UNIVERSITY****Institute for Tribal Environmental Professionals**

Tribal Climate Change Newsletter

March 2012

Welcome to ITEP's Tribal Climate Change Newsletter. This monthly newsletter provides news items, resources, announcements about funding opportunities, conferences, and training, and other information relevant to tribal climate change issues.

ITEP's Climate Change Program News



Sheep on the Navajo Nation. Photo by Sue Wotkyns.

Pre-registration forms for the **Climate Change Adaptation Planning** course (June 5-7, Oneida WI) are available on the ITEP website: www4.nau.edu/itep/climatechange/. Since the course will focus on climate change impacts and adaptation in the Great Lakes and eastern US, we especially encourage tribal environmental and natural resource professionals from the region to attend. Please register by April 10, and our thanks to the Oneida Nation of Wisconsin for hosting the course. Another offering is being planned for September (dates TBD) in Missoula, MT, and will be hosted by the Confederated Salish and Kootenai Tribes.

The **National Tribal Forum on Air Quality** is scheduled for May 22-24, in Tulsa, OK, and will include presentations ambient air quality, indoor air quality, and climate change. More information and online registration are available at: www4.nau.edu/itep/conferences/confir_ntf.asp.

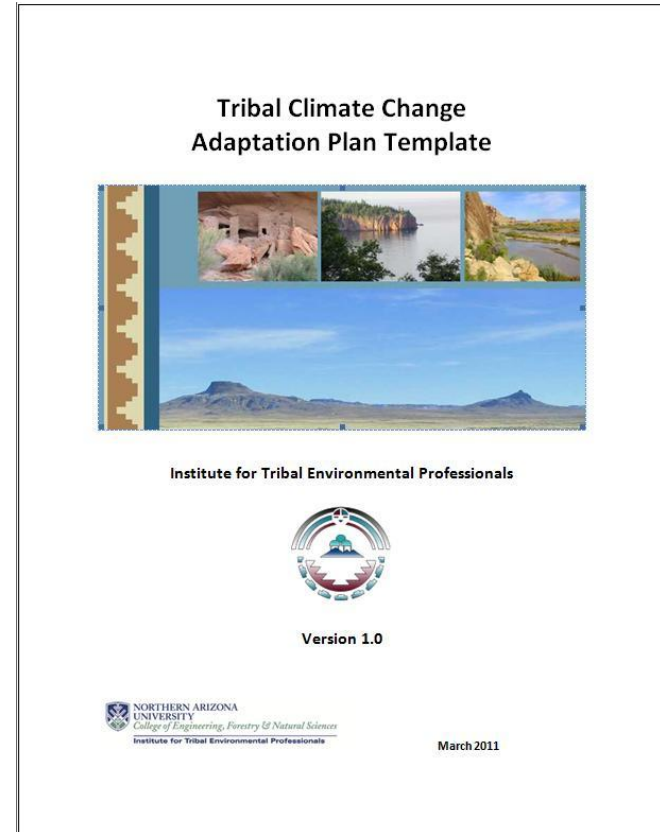
ITEP has developed a **Template for a Tribal Resolution: Climate Change Adaptation Initiative** to serve as a model on which tribes can base their own resolution for a tribal climate change initiative. The template is not a "one-size-fits-all" solution, and users are encouraged to

About Us:

- **Sue Wotkyns, Climate Change Program Manager**
Sue is leading the development of ITEP's Climate Change Program and coordinating ITEP's climate change efforts. Please contact her with any inquiries, suggestions or comments. 928-523-1488 Susan.Wotkyns@nau.edu
- **Tribal Climate Change Listserve**
Did someone forward this to you? Send an email to Sue Wotkyns to subscribe or unsubscribe to the newsletter. We may occasionally send announcements in addition to the monthly newsletters if we have something to share that is time-sensitive. Archived issues can be found at: www4.nau.edu/itep/climatechange
- **Tribes & Climate Change website**
For more on tribes and climate change issues, visit ITEP's Tribes & Climate Change website at www4.nau.edu/tribalclimate. The website includes profiles of tribes that are impacted by climate change, audio recordings of tribal elders offering their views on

Tribal Climate Change Adaptation Plan Template

- Guidelines and suggestions for writing an adaptation plan
- Outline of sections to include
- Key terms, additional resources
- Microsoft Word document
- Available by request:
susan.wotkyns@nau.edu



Write a Climate Change Adaptation Plan— What to Include

Tribal Council Commitment—tribal council's approval and support of the plan

Executive Summary—overview of the project and key findings

- Planning Process
- Action Recommendations
- Implementation of Plan



Write a Climate Change Adaptation Plan— What to Include

Introduction

- General Characteristics and History of the Tribe
- Why the Tribe is Planning for Climate Change
- Threat posed by climate change
- Tribe's commitment to planning
- Reasons for planning
- Planning in a Regional Context



Credit: Shishmaref Erosion and Relocation Coalition,
<http://www.shishmarefrelocation.com/>

Write a Climate Change Adaptation Plan— What to Include

Climate Impacts

- Regional climate impacts
- Climate change impacts on tribe (impact assessment)
 - Consider impacts on different sectors, such as water resources, plants and wildlife, infrastructure, human health, cultural sites and resources, etc.
- Bring traditional knowledge (TK) into planning process



*Credit: Alaska Dept. of Natural Resources
Division of Forestry*

<http://forestry.alaska.gov/fire/assignments.htm>

Write a Climate Change Adaptation Plan— What to Include

Vulnerability and Risk (assessments)

- Vulnerability: susceptibility to being harmed by climate change impacts—depends on sensitivity to climate and capacity to adapt
- Risk: consider consequences of impact and likelihood that impact will happen



Credit: USFWS

<http://alaska.fws.gov/asm/index.cfm>



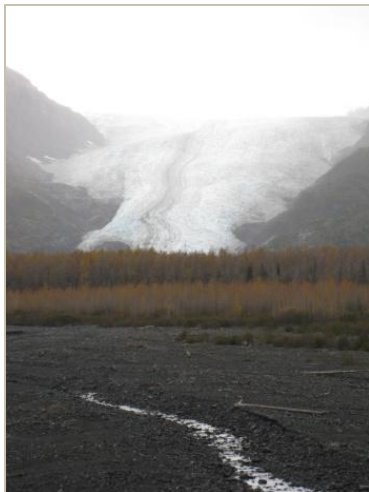
Credit: Susanne Miller/USFWS

<http://digitalmedia.fws.gov/cdm/singleitem/col/lection/natdiglib/id/3428/rec/9>

Write a Climate Change Adaptation Plan— What to Include

Recommended Goals and Actions

- Focus on high priority planning areas
- Goals: what you want to accomplish
- Actions: how you'll accomplish goals



Credit: Alaska Dept. of Fish and Game
<http://www.adfg.alaska.gov/index.cfm?adfg=sockeysalmon.main>



Credit: Shishmaref Erosion and Relocation Coalition,
<http://www.shishmarefrelocation.com/>

Write a Climate Change Adaptation Plan— What to Include

Implementation of Plan

- Monitor/measure progress in reaching adaptation goals
- Review basic assumptions
- Update plan regularly



Credit: NOAA

<http://www.nmfs.noaa.gov/pr/species/mammals/pinnipeds/beardedseal.htm>



Credit: USFWS

<http://alaska.fws.gov/climate/anwr.htm>

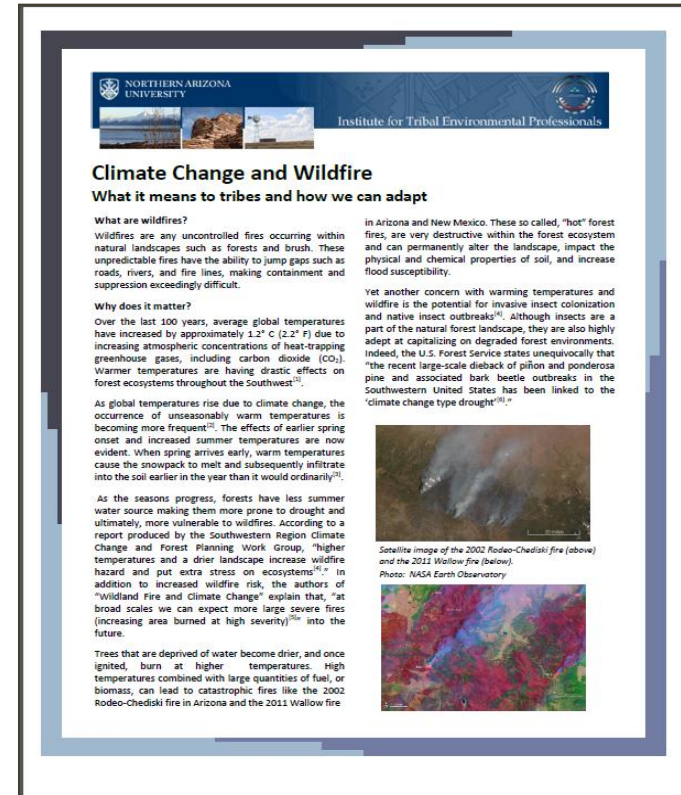
Template for a Tribal Resolution: Climate Change Adaptation Initiative

- Template and 4-page guide
- Focused on establishing a climate change adaptation initiative for tribe
- Available by request: susan.wotkyns@nau.edu



Climate Change Outreach Materials

- Climate Change Fact Sheets
 - 2-page
 - Focused on impacts and adaptation strategies
 - Drought
 - Wildfire
 - Invasive Species
 - More being developed in collaboration with University of Oregon
 - Available at:
http://www4.nau.edu/itep/climatechange/tcc_SWProj.asp
- Powerpoint presentation for outreach
 - Climate change impacts
 - For tribes to use in their outreach with community
 - Not yet available



Our Contact Information

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For more information about ITEP, please visit our website:
<http://www4.nau.edu/itep/>