

TRIBAL CLIMATE & HEALTH ADAPTATION SUMMIT

PARTICIPANT WORKBOOK

PLANNING TRIBAL ADAPTATION STRATEGIES THAT SAFEGUARD HEALTH



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COVID-19 Policy

The Pala Environmental Department (PED) is committed to hosting a safe event and reducing the spread of COVID-19. Participant, speaker, and staff safety is a top priority and thus, we are implementing the following measures to protect Summit attendees:

- Masks are optional and will be provided at the Pala Hotel front desk upon request.
- Hand sanitizer will be available throughout the Pala Casino & Resort.
- Vaccinations, including booster shots, are encouraged but not required to attend.
- While not required, we encourage participants to complete a COVID-19 test up to 72 hours prior to the event to ensure a negative result before traveling.
- The Pala Casino Resort Spa has installed a state-of-the-art air filtration system with UV light to kill pathogens.
- We encourage attendees to protect their peers by taking precautions such as social distancing and notifying Summit staff should they start to feel unwell.

Access this Workbook Online

Portions of this workbook contain links and some session prompts may be better completed in a digital format.

To access the workbook online, use the link or scan the QR code with your camera

bit.ly/23PW



Look for the icon!



For links,
resources and
more!

Welcome!

2023 Tribal Climate and Health Adaptation Summit Planning Tribal Adaptation Strategies that Safeguard Health

U.S. Tribes have experienced first-hand the cascading and interconnected effects of climate change. Many have begun taking steps towards understanding and addressing the threats and vulnerabilities presented by worsening drought, heat, flooding, fire, sea level rise, and other climate impacts. When left unmitigated, these climate vulnerabilities can result in overwhelming losses in wellbeing, cultural and natural resources, financial resources, and other important community assets for generations to come. This Summit brings together experts and practitioners in Tribal health and climate adaptation to focus on how to take actions that ensure that Tribal physical, mental, socioeconomic, and cultural and spiritual health and wellbeing is prioritized and protected. Building upon knowledge gained during the 2022 Summit, which aimed to help Tribes identify their unique climate and health vulnerabilities (see [Summit recordings](#)), this year's Summit turns our attention to the next step in adaptation: addressing Tribes' unique vulnerabilities with effective adaptation strategies.

Throughout this two-day training, Tribal-serving professionals working at the intersection of climate change, health, and community wellbeing will participate in interactive instruction and peer-to-peer learning activities that will build knowledge and about developing, implementing, and evaluating adaptation plan strategies that safeguard Tribal health and are rooted in traditional knowledge and values. Organizers, guest speakers, and attendees will be invited to share recent findings, successful practices, and resources that are increasing Tribal resilience to a variety of climate exposures throughout the US. Spaces have been curated to help attendees reflect individually and connect with each other. The summit will also recognize Tribes for significant progress championing climate and health adaptation.



About the Organizers



Pala Band of Mission Indians – The Pala Band of Mission Indians in northern San Diego County is home to Kuupangawichum (Cupeño) and Payómkawichum (Luiseño) people. Located on the ancestral homelands of the Payómkawichum, the Pala Reservation was expanded in 1903 to include Kuupangawichum who were forcibly evicted from their homelands, 45 miles to the east in what is today known as Warner Springs. Today, the Cupeño and Luiseño people of the Pala Band consider themselves to be one proud people: Pala. *Learn more at <http://www.palatribe.com/>*



Pala Environmental Department (PED) The Pala Environmental Department is responsible for every aspect of environmental health and safety on the Pala Reservation. In addition to our water, air, and waste management programs, we also monitor and administer programs in pest management, hazardous waste storage and disposal, community cleanups, and more. *Learn more at <http://ped.palatribe.com/>*



Tribal Climate Health Project In 2016, Pala Band of Mission Indians was awarded a grant from the U.S. EPA under a solicitation called “Building the Capacity of Tribes to Address the Health Impacts of Climate Change.” The grant funds the development and distribution of online trainings, a resource clearinghouse, and other capacity-building tools that will help Tribal health and environmental professionals across the nation prepare their communities for the public health impacts of climate change. Pala has since been awarded funding to expand upon this project by the US BIA Tribal Resilience Program and the National Indian Health Board. The program has provided training to over 1,400 tribal serving professionals to date. *Learn more at <http://tribalclimatehealth.org/>*

Objectives

Attendees will:

- Learn about adaptation & resilience frameworks that are suitable for Tribal planning
- Learn steps for conducting adaptation plans that include a focus on Tribal health and well-being
- Build knowledge of best practices, frameworks, and examples related to selecting and managing the most effective climate and health adaptation strategies
- Deepen understanding of the linkages between health and climate change, including emerging findings and lessons
- Participate in peer discussions to exchange knowledge and experiences

AGENDA

DAY ONE – Wednesday, November 8th, 2023

8:00am | Continental Breakfast and Registration

9:00am | Welcome, Blessing, and Overview

Summit attendees will be welcomed to Pala, CA and the Summit and hear an overview of Summit activities.

Speakers:

- **Eric Ortega** – Tribal Senior, Pala Band of Mission Indians
- **Shasta Gaughen, PhD** – Director, Pala Environmental Department, Tribal Climate Health Project
- **Angie Hacker** – CEO, Principal Consultant, Prosper Sustainably, Tribal Climate Health Project

9:30am | Participant Introductions (page 13)

Attendees will participate in a full-group introduction.

Facilitators:

- **Shasta Gaughen, PhD** – Director, Pala Environmental Department, Tribal Climate Health Project
- **Nikki Cooley** – Co-Director, Institute for Tribal Environmental Professionals (ITEP)

10:30am | BREAK

10:45am | Tribal Climate and Health Adaptation Overview (see page 14)

Tribal Climate Health Project will provide an introductory overview to how Tribes are affected by the health and other impacts of climate change. Attendees will also begin centering on this year's summit theme focused on addressing these impacts by planning and implementing adaptation strategies.

Speakers:

- **Shasta Gaughen**
- **Angie Hacker**

11:45am | LUNCH (provided)

12:45pm | Breakout 1: Adaptation Strategies by Exposure

Attendees will participate in a facilitated roundtable discussion to share the strategies they are using to adapt to the following climate exposures: [Drought](#), [Wildfire](#), [Temperature Extremes](#), [Storms + Flooding](#), and [Melting Ice + Sea-Level Rise](#).

Breakout Facilitators:

Drought | Christopher Hyun – Climate Lead + Emergency Regulations, CA State Water Resources Control Board

Temperature Extremes | Lisa Gover – Director, Dept. of Environmental Quality, Gila River Indian Community + **Patricia Kennedy** – Tribal Affairs Coordinator, CA Governor's Office of Planning and Research

Wildfire | Osamu Kumasaka – Tribal Climate Change Program & Policy Specialist, Climate Change & Health Equity Section, CA Dept. of Public Health

Storms & Flooding | Laurie Monserrat – Senior Environmental Scientist, CA Office of Environmental Health Hazard Assessment

Melting Ice & Sea-Level Rise | Nikki Cooley, Diné – Co-Director, Institute for Tribal Environmental Professionals

1:45pm | Breakout 2: Adaptation Strategies by Impact Type (see page 15)

Attendees will participate in a facilitated roundtable discussion to share the adaptation strategies they are using to protect against impacts to the following areas of concern: **Natural + Managed Lands, Built Environment, Physical + Mental Health, Cultural + Spiritual Health, Socioeconomic Health.**

Breakout Facilitators:

Built Environment | Christopher Hyun

Natural & Managed Lands | Laurie Monserrat

Physical & Mental Health | Osamu Kumasaka

Cultural & Spiritual Health | Nikki Cooley + Lisa Gover

Socioeconomic Health | Patricia Kennedy

2:45pm | BREAK

3:00pm | Adaptation Plans (see pages 16-17)

Tribal Climate Health Project will provide brief instruction on the steps to developing an adaptation plan that addresses health and other climate vulnerabilities and will guide discussion on sample Tribal adaptation plan reports.

Speakers:

- **Shasta Gaughen**
- **Angie Hacker**

4:00pm | Walk and Talk

Attendees will close Day 1 of training with an opportunity to get outside and take a guided walk along the San Luis Rey River in Pala.

Led by:

- **Kurt Broz** – Environmental Planner, Pala Environmental Department
- **Shasta Gaughen**

4:45pm | Adjourn for Day

DAY TWO – Thursday, November 9th, 2023

8:00am | Continental Breakfast

9:00am | Recent Findings in Climate Health (see page 18)

Tribal & Tribe-serving practitioners will share recent findings that include local observations and community-based research that highlight various ways to adapt to the health and other impacts of climate change.

Speakers:

- **Paula Andrea Torrado Plazas** – Environmental Program Manager – Racial Equity & Environmental Justice, OEHHA
- **LaVerne Xilegg Demientieff, PhD** – Chair & Professor, Dept. of Social Work, University of Alaska Fairbanks
- **Alicia Espinoza, MPH** – Chief of Border Health, Dept. of Public Health Services, County of San Diego

Facilitated by: **Laurie Monserrat**

10:00am | Knowledge Exchange: Protecting Tribal Cultural Resources and Traditional Ecological Knowledge in Adaptation (see page 19)

Tribal practitioners will share knowledge related to their experiences helping Tribes adapt to climate change while also protecting sensitive information like the location of Tribal cultural resources and traditional ecological knowledge.

Speakers:

- **Mike Durglo** – Climate Change Coordinator, Confederated Salish Kootenai Tribes

Facilitated by: **Shasta Gaughen, PhD**

11:00 am | BREAK

11:15am | Adaptation Planning & Implementation Workshop (see page 20)

Tribal Climate Health Project will facilitate a hands-on, workshop-style session to demonstrate and practice key aspects of developing implementation-ready adaptation plans. Attendees will participate in an exercise to help each other consider ways to address, plan for, and implement the most needed and feasible health adaptation strategies.

Facilitated by: **Shasta Gaughen** and **Angie Hacker**

12:15pm | LUNCH (provided)

1:15pm | Knowledge Exchange: Putting Your Adaptation Plan to Work

Tribal practitioners will share knowledge related to their experience moving past planning and into action. They will share tips, road bumps, and lessons learned related to adopting a plan and managing the implementation of selected adaptation strategies.

Speaker:

- **Dennis Longknife, Jr.** – Environmental Specialist, Fort Belknap Indian Community
- **Selso Villegas** – Executive Director, Water Resources & Emergency Management, Tohono O’odham Nation
- **Randi Madison** – Executive Director, EPA Region 10 Tribal Operations Committee

Facilitated by: **Shasta Gaughen**

2:15pm | BREAK

2:30pm | Getting Continued Help (see page 21)

Tribal serving organizations will describe how they are offering continued support beyond the Summit to help Tribes successfully adapt to climate change.

Speakers:

- **Melissa Blum** – Instructional Course Designer and Public Health Preparedness Consultant, National Disaster Preparedness Training Center @ the University of Hawai'i
- **Deyvon Cooper** – Operations and Plans Assistant Director, National Center for Biomedical Research and Academy for Counter-Terrorist Education
- **Jennifer Santry** – Indigenous Education Liaison, Climate Advocates Voces Unidas
- **Nikki Cooley** – Co-Director, Institute for Tribal Environmental Professionals (ITEP)

Facilitated by: **Angie Hacker**

3:15pm | Recognition Ceremony & Closing (see page 22)

The Tribal Climate Health Project will close out the Summit by recognizing attendees for their progress and work to safeguard their community from the impacts of climate change. Attendees will participate in a closing circle for acknowledgements, appreciation, and affirmations.

Moderated by: **Shasta Gaughen** and **Angie Hacker**

4:00pm | Adjourn

Meet our Hosts



Shasta Gaughen – Director, *Pala Environmental Department*

Shasta Gaughen is the Environmental Director and the Tribal Historic Preservation Officer for the Pala Band of Mission Indians in Pala, California. She has worked for Pala since 2005 and established Pala’s Tribal Historic Preservation Office in 2008. Dr. Gaughen is chair of the National Association of Tribal Historic Preservation Officers; the Region 9 Representative to the USEPA Tribal Science Council; a member of the Advisory Council on Historic Preservation; and a member of the Institute of Tribal Environmental Professionals’ climate change advisory committee, among numerous other roles. Dr. Gaughen oversees the Tribal Climate Health Project, a grant-funded education and outreach project that includes a website, resource clearinghouse, webinars, videos and in-person presentations on climate change and health adaptation in tribal communities.



Angie Hacker - CEO, Principal Consultant, *Prosper Sustainably, Tribal Climate Health Project*

Angie Hacker is the Principal Consultant and CEO of Prosper Sustainably, a woman-owned, California-based firm providing energy, climate, and environmental consulting services for communities and the organizations that serve them. Angie has 20 years of public, private and non-profit experience, with a deep background working within and with local and tribal governments, making her uniquely qualified to help under-resourced communities prosper and thrive.

Meet our Speakers

Alicia Espinoza – Chief of Border Health, Dept. of Public Health Services, *County of San Diego*

Chris Hyun – Climate Lead + Emergency Regulations, *State Water Resources Control Board*

Dennis Longknife, Jr. – Environmental Specialist, *Fort Belknap Indian Community*

Deyvon Cooper – Operations and Plans Assistant Director, *National Center for Biomedical Research and Academy for Counter-Terrorist Education*

Eric Ortega – Pala Senior, *Pala Band of Mission Indians*

Jennifer Santry – Indigenous Education Liaison, *Climate Advocates Voces Unidas*

Kurt Broz – Environmental Planner, *Pala Environmental Department*

Laurie Monserrat – Senior Environmental Scientist, *California Office of Environmental Health Hazard Assessment*

LaVerne Xilegg Demientieff, PhD – Chair & Professor, Dept. of Social Work, *University of Alaska Fairbanks*

Lisa Gover – Director, Dept. of Environmental Quality, *Gila River Indian Community*

Melissa Blum – Instructional Course Designer and Public Health Preparedness Consultant, *National Disaster Preparedness Training Center at the University of Hawai'i*

Michael Durglo – Climate Change Coordinator, *Confederated Salish Kootenai Tribes*

Nikki Cooley, Diné – Co-Director, *Institute for Tribal Environmental Professionals*

Osamu Kumasaka – Tribal Climate Change Program and Policy Specialist, *California Department of Public Health*

Patricia Kennedy – Tribal Affairs Coordinator, *CA Governor's Office of Planning and Research*

Paula Andrea Torrado Plazas – Environmental Program Manager – Racial Equity & Environmental Justice, *California Office of Environmental Health Hazard Assessment*

Randi Madison – Executive Director, *EPA Region 10 Tribal Operations Committee*

Selso Villegas – Executive Director, Water Resources & Emergency Management, *Tohono O'odham Nation*

Participant Introductions

*Welcome to the 2023 Tribal Climate and Health Adaptation Summit!
We will participate in full-group introductions get to know each other.*

Feel free to take note of people you wish to connect with during the Summit.



Tribal Climate and Health Adaptation Overview

Circle the climate exposures that should be/are being addressed by your community. Feel free to add any that aren't listed.

Temperature Extremes

Worsened Air Quality

Drought

Vector Changes

Storms and Flooding

Water Insecurity

Melting Ice & Sea-level Rise

Food Insecurity

Wildfire

Reflection: What are some of the health impacts your community should address with adaptation strategies?



Breakout Roundtables

Reflection: What strategies did you discuss or discover in your breakouts that you want to remember to include in your adaptation plan?

Adaptation Strategies by Exposure	Impact Type
<input type="checkbox"/> <i>(Example) Wildfire - Implement Fuel Reduction</i>	<i>(Example) Physical & Mental Health – Create and publish a directory to all available services</i>

Adaptation Plans

Exercise 1: Adaptation Plan Report Review



In your online participant workbook, please choose one of the following to review:

- [Adapting to a Changing Climate: Sicangu Lakota Oyate Plan](#) (2022)
 - Location: North Central U.S., South Dakota
- [Pala Band of Mission Indians Transportation Climate Change Adaptation Plan](#) (2022)
 - Location: Southern California
- [Ute Mountain Climate Action Plan](#) (2020)
 - Location: Southwest, Rocky Mountains
- [Karuk Climate Adaptation Plan](#) (2019)
 - Location: Northern California

Breakout Discussion Questions:

- What did you like – or not like – about the structure and flow?
- What types of information sources were referenced?
- Did the report provide sufficient information to help the Tribe implement the selected strategies?

Reflection Questions:

What resources do you need to secure before you can conduct an adaptation plan (e.g. funding, council direction, partners, etc.)?

Who is or should be involved in your community’s climate and health adaptation efforts? Who should be on your climate and health adaptation planning committee?

What sources of adaptation strategy ideas do you have access to for addressing your Tribe’s climate vulnerabilities? How might you collect them?

What are some features of adaptation plans that you would like to keep in mind when you develop your own?



Recent Findings in Climate Health

Resources from our Panelists:

- [OEHHA - Climate Change Indicators](#)
- [Access and Functional Needs Toolkit: Integrating a Community Partner Network to Inform Risk Communication Strategies \(CDC\)](#)
- [A Whole Community Approach to Emergency Management: Principles, Themes, and Pathways for Action \(FEMA\)](#)
- [County of San Diego: Make a Disaster Plan](#)
- [Kozo, et. al. \(2020\). The Partner Relay Communication Network: Sharing Information During Emergencies with Limited English Proficient Populations. Health security, 18\(1\), 49-56. https://doi.org/10.1089/hs.2019.0144](#)
- [McBride, et al. \(2022\) Evidence-based guidelines for protective actions and earthquake early warning systems. Geophysics 2022; 87 \(1\): https://doi.org/10.1190/geo2021-0222.1](#)

Reflection Question:

What key information did you learn from speakers at this panel discussion?

Knowledge Exchange: Protecting Cultural Resources and Traditional Ecological Knowledge in Adaptation

Reflection Question:

How can you protect your Tribe from climate change while also protecting cultural resources and Traditional Ecological Knowledge (TEK)?

Adaptation Planning and Implementation Workshop

What are some areas where you need help coming up with adaptation strategies?

What are some adaptation strategies suggested by the group that might work for you?

What strategies might help you implement your adaptation plan?



Getting Continued Help



Resources from our Panelists:

- [Rural Domestic Preparedness Consortium - Course Catalog](#)
- [National Disaster Preparedness Training Center - Course Catalog](#)

- [CAVU Climate Innovation Challenge](#)
- [CAVU Engaging Native Youth Resource Guide](#)

- [Status of Tribes and Climate Change \(STACC\) Report](#)
- [ITEP's Tribes & Climate Change Program](#)
- [ITEP's Tribal Climate Adaptation Toolkit](#)
- [National Tribal and Indigenous Climate Conference \(NTICC\)](#)

When you return home after the training, how can you connect with organizations that can help (see [Directory of Assistance Providers](#))?

Recognition & Closing

We so appreciate your commitment to protecting your community and are grateful you joined us for these last two days.

Personal Reflections

Take a moment to recognize one powerful thing you have learned or discovered during this Summit.

Take a moment to recognize how your work is or will impact your community.

NOTES

'Icháam (thank you)!

Please stay in touch:

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Workbook Cover Image

Features Tribal elder Teodora Cuero of the Kumiai Indian Community of La Huerta, Baja California gathering the medicinal Woolly Blue Curls (*Trichostema lanatum*)
Photo credit: Don Bartletti, *Los Angeles Times*

Your feedback is welcome and appreciated!

Take the Post-Summit Survey here:

<https://bit.ly/2023PostSummitTCHP>

Or scan the QR code below with your camera to take the survey on your phone:



Access the online version of this workbook by visiting the following link or scanning the QR code with your camera:

bit.ly/23PW

