

Collaborating with Tribes on Indigenous Knowledge (IK)/Traditional Ecological Knowledge (TEK) in Climate Change Research

Moderator:

Neil Matouka, Climate Assessment Program Manager, Office of Planning and Research

Presenters:

Connor Magee, Research and Data Application Manager-Climate Science Alliance, Pala Band of Mission Indians, Tribal Advisory Member

Patricia Kennedy (she/her), Climate Assessment Tribal Program Manager, Office of Planning and Research





Overview



Climate Assessment Overview

California's Fifth Climate Change Assessment Tribal Research Program

Case Study: Resilient Restoration

Roundtable on Indigenous Knowledge Guidance

California Climate Change Assessment and Tribal Research Program Overview





Program goal: Develop tribally led **Guidance on Collaboration and Protection of IK's and tribal knowledge** through research processes and report handling

OPR will support tribally developed guidance on collaboration with Tribes on Indigenous Knowledges in climate research processes and report handling.

- Have you collaborated with Tribes on IK's in Climate Research and Planning? If so, what went well/wrong? If not, what gaps/challenges/barriers did you face?
- As we start to embark on this work, is there any component you think is critical for us to consider or resource you would like to be created?
- We are not trying to recreate the wheel, existing resources that you have valued can help inform this process.

What are the California Climate Change Assessments?



California's Climate Change Assessments contribute to the scientific foundation for understanding climate-related vulnerability at the state, regional, and **local scale** and inform resilience, adaptation, and mitigation actions.

Previous Climate Change Assessments

m - Susanne Moser

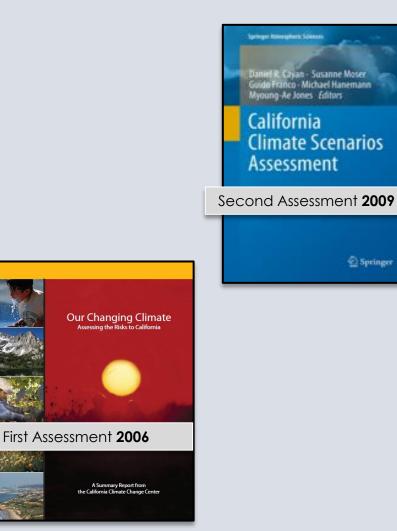
2 Springer

















Fourth Assessment 2018

https://climateassessment.ca.gov/

California's Fifth Climate Assessment

The Fifth Assessment will produce a suite of research and tools that report the impacts and risks of climate change, based on the best available science.



- 1. New climate data and scenarios
- 2. Original research that addresses Californiaspecific research needs
- 3. A Tribal Research Program to collaborate on Indigenous knowledges and tribal expertise
- 4. A suite of regional, topical, and statewide synthesis reports
- 5. A dedicated, sustained, and equity-centered engagement process

Tribal and Indigenous Communities Report (4th Assessment)



Summary Report from Tibal and Indigenous Communities within California

"This report is the beginning of something truly innovative: a mutual invitation between tribes and the state to share learning with an urgent focus on climate action, incorporating traditional knowledges and practices. This synthesis is the starting point of a new productive climate conversation between tribes and the state"

 – page 10 of CA Fourth Climate Assessment Tribal and Indigenous Communities Report (2018)

Tribal Research Program Goals



- Engage and consult with tribal communities to advance collaboration on Indigenous knowledge(s) and tribal expertise
- Establish a **Tribal Advisory Group** to ensure collaboration on Indigenous knowledge(s) and tribal expertise throughout the Assessment
- Support tribally-led research through a **Tribal Grant Program** to address Californiaspecific tribal research needs and questions related to climate change
- Develop a **Tribal Synthesis Report** that includes tribally-led research and summarizes climate change impacts to tribes in California
- Develop tribally led Guidance on Collaboration and Protection of IK and tribal knowledge through research processes and report handling

Tribal Research Funding



Tribal Research Grant Program

- \$3.625 Million
- \$20k-\$400k Individual Awards
- Tribes and Tribal Organizations
- Round 1 Application Window: August-October 2023

Tribal Advisory Group

- ~\$50k/year for TAG
- Individual Contracts
- Nomination from CA Native American Tribe
- Expertise with IK or climate work

IK Guidance and Implementation Support

- •~\$190k
- RFP to Tribal Serving Organization, subawards possible
- Late Fall 2023

Tribal Synthesis Report

- ~\$250k
- RFP or IA
- Entity flexible
- One contract to coordinate/subcontract Authors
- Early 2024

Tribal Advisory Group



Program Goal: Establish a **Tribal Advisory Group** to ensure collaboration on Indigenous knowledge(s) and tribal expertise throughout the Assessment



Connor Magee, Research and Data Application Manager-Climate Science Alliance, Pala Band of Mission Indians



Teresa Romero, Tribal Member, Coastal Band of Chumash Nation







Claussen, Wildlife Director, Yurok Tribe Christina

Tiana Williams-

Christina McDonald, Secretary, North Fork Rancheria of Mono Indians

Michael Shaver, Water Resources Director, Potter Valley Tribe







Raymond Gutierrez, Eco-Cultural Ecologist, Wuksachi Indian Tribe

William "Yaan Yaan Eesh" Micklin, Chief Executive Officer, Ewiiaapaayp of Kumeyaay Indians

Dean Tonenna, VP Mono Lake Kootzaduka'a Indian Community Cultural Preservation Association, Mono Lake Kootzaduka'a



Q&A



Advancing Ecological, Cultural, and Community Resilience with Tribal Nations in Southern California Avanzando la resiliencia ecológica, cultural y comunitaria con naciones tribales en el sur de California





San Diego State University





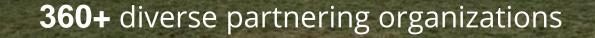
CALIFORNIU FIREPR

www.climatesciencealliance.org/resilient-restoration

Our Mission

The mission of the Climate Science Alliance is to safeguard natural and human communities in the face of a changing climate. We do this through leading activities and creating partnerships which increase awareness of climate change impacts, promote solutions, and facilitate action.

La misión de la Climate Science Alliance es resguardar comunidades naturales y humanas ante un clima cambiante. Logramos esto lidereando actividades y creando colaboraciones que incrementan conciencia sobre los impactos del cambio climático, promueven soluciones y facilitan acciones.



Our Approach

BUILDING CAPACITY FORJANDO CAPACITACIÓN

Meeting people where they are with accessible information on climate science, planning, and management.

Supporting regionally-specific, crossdisciplinary research to better inform climate solutions.

BUILDING RESILIENCE FORJANDO RESILIENCIA

Bridging the gap between climate research and the community through multiple innovative avenues of science translation.

BUILDING COMMUNITY FORJANDO COMUNIDAD





Tribal Partnerships & Projects *Colaboraciones y proyectos tribus*

- Integration of cultural and natural resource conservation Integración de conservación de recursos culturales y naturales
- Equal valuation of ways of knowing *Valoración equitativa de maneras de conocer y saber*
- Advancing understanding of ancestral homelands for jurisdictional planning and co-stewardship of the land Avanzando entendimiento de patria ancestral para planeación jurisdiccional y coadministración de la tierra
- Decolonize the conservation and climate adaptation paradigm Descolonizar la conversación y el paradigma de la adaptación climática





OUR MODEL IN ACTION / NUESTRO MODELO EL ACCIÓN Tribal Working Group

Using education, environmental programs, and traditional ecological knowledge, and a focus on community priorities, local ecosystems, and holistic management, we collaborate to safeguard the lands and cultures of southern California's Indian Tribes from the threat of climate change.

Utilizando educación, programas ambientales y conocimientos ecológicos tradicionales y un enfoque en prioridades comunitarias, ecosistemas locales y manejo holístico, colaboramos para resguardar las tierras y culturas de las tribus del sur de California de la amenaza del cambio climático.

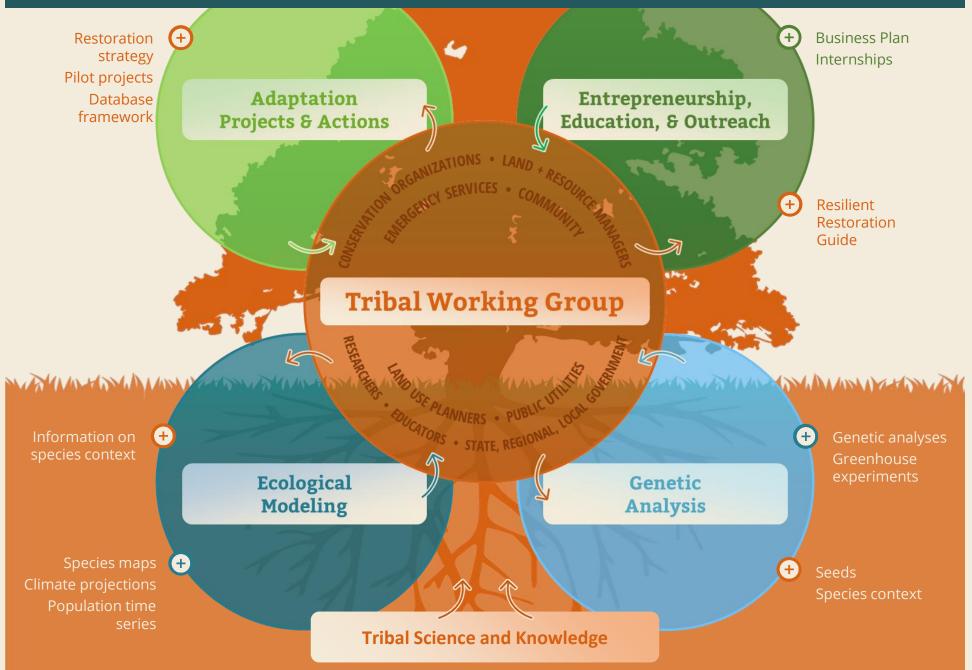
- 20+ Tribal nations
- **70**+ individuals





www.climatesciencealliance.org/tribal-working-group

RESILIENT RESTORATION PROJECT



PROJECT ROLES Tribal Working Group

The Tribal Working Group will provide leadership and guidance to determine the priorities, vision, goals, and deliverables.

El Tribal Working Group *proveerá liderazgo y dirección para determinar las prioridades, la visión, los objetivos y los entregables del proyecto.*

- Inform and determine research priorities, scope, and objectives Informar y determinar prioridades, rango y objetivos de la investigación
- Develop and implement Intertribal projects to test strategies Desarrollar e implementar proyectos intertribales para poner estrategias a prueba
- Integrate research findings into current and future group projects Integrar hallazgos de investigación a proyectos colaborativos actuales y futuros
- Prioritize and implement research products, tools, and resources developed in long-term Tribal Working Group efforts

Priorizar e implementar productos, herramientas y recursos de investigación desarrollados durante esfuerzos de largo plazo del grupo de trabajo



www.climatesciencealliance.org/resilient-restoration

PROJECT ROLES



& Communities

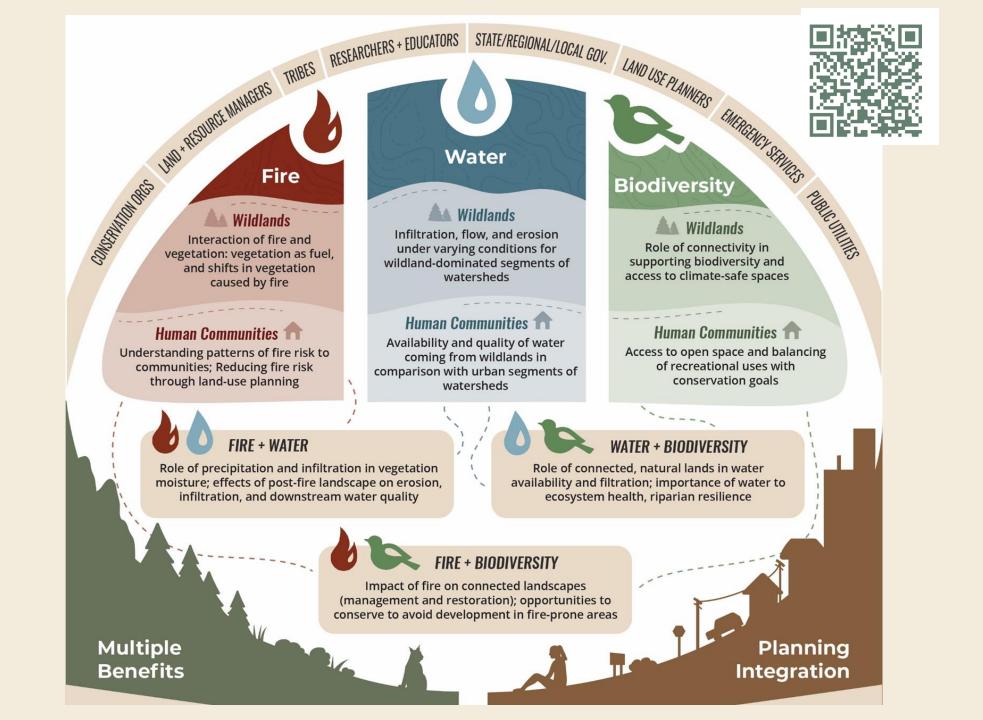
Planning for climate-ready landscapes in SoCal





www.climatesciencealliance.org/cwc







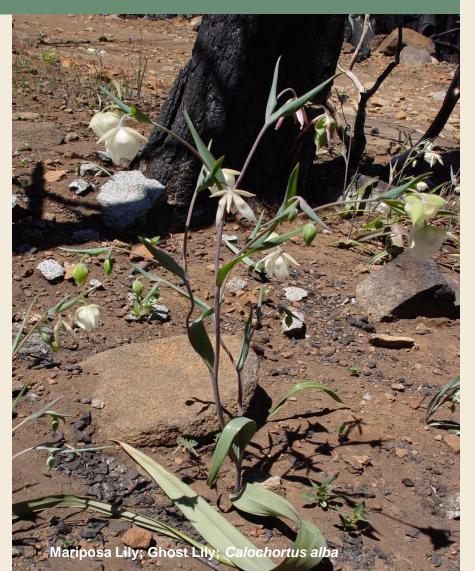
PROJECT ROLES UC Riverside

Assess Climate Impacts to Native Plants

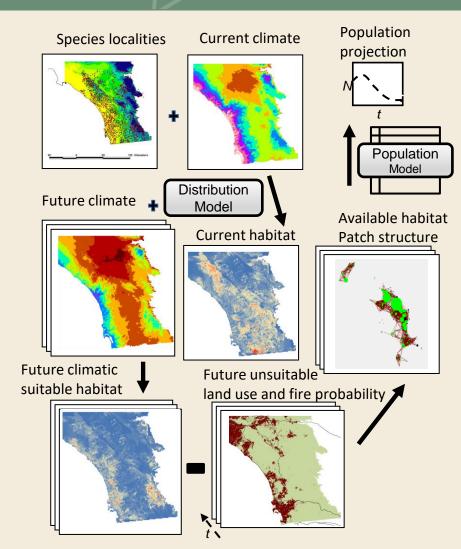
Asesorar impactos climáticos a plantas nativas

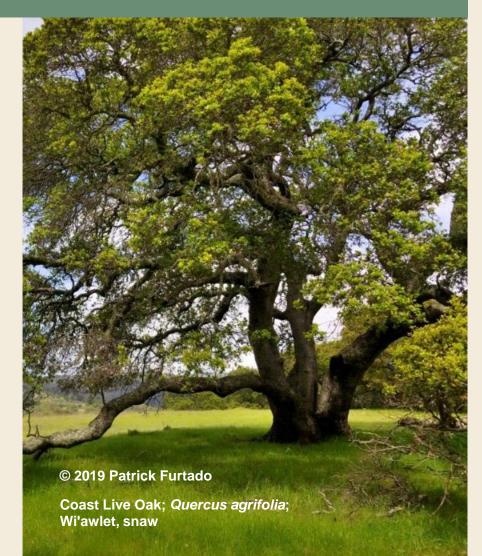
Leverage data and modeling tools developed for "The roles of biogeography and species traits in determining the vulnerability of California native plant species to climate change"

Utilizar datos y herramientas de modelación desarrolladas para "los roles de biogeografía y rasgos de especies en la determinación de la vulnerabilidad de especies nativas de plantas de California ante el cambio climático"



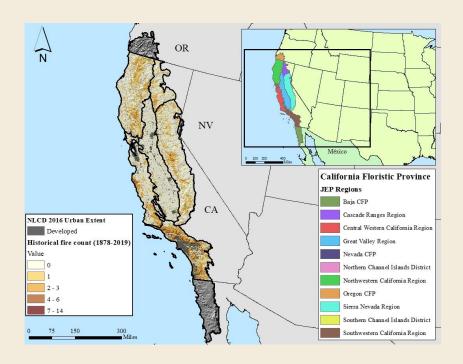
UC RIVERSIDE Integrated Modeling Framework Estructura de modelación integrada

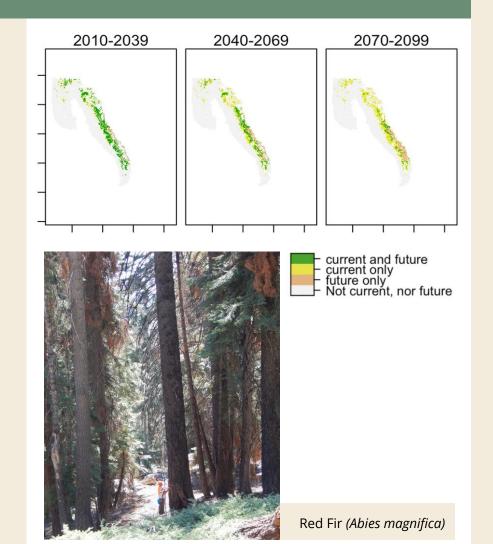




UC RIVERSIDE Future Suitable Habitat Hábitat futuro adecuado

Use climate projections to predict changes in habitat suitable for plant species







Q&A



Roundtable Discussion

IK Guidance and Support Background



CALIFORNIA'S FIFTH CLIMATE CHANGE ASSESSMENT *Background:* Indigenous Knowledge (IK) and Tribal Expertise plays a critical role understanding and responding to climate change. Collaborating with Tribes meaningfully, protecting IK, valuing information when shared, and including this knowledge in State policy and research decisions when shared for those purposes by tribes is essential to this process.

There is a general lack of State understanding of IK as a valued knowledge system; how to collaborate respectfully with Tribes regarding IK, Tribal Data, and Tribal Expertise; and potential risks to Indigenous Peoples in sharing IK's with the State and other Researchers. IK Guidance and Support Background



CALIFORNIA'S FIFTH CLIMATE CHANGE ASSESSMENT *Purpose:* To support tribally developed guidance and protocols that the Assessment will, and other State Agencies can, use to:

 Better understand Indigenous Knowledge as a valued knowledge system;
 Develop meaningful partnerships with Tribes in research and policy processes;

3) Develop protocols/templates on handling/protecting information and/or data when collaborating with Tribes on IK, Tribal Expertise, and other Tribal data; and

4) Work with Tribes, Assessment Author Teams and State Staff to implement the above guidance within the Assessment process and products.



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- Have you collaborated with Tribes on IK's in Climate Research and Planning? If you are a Tribal Rep, have you worked with the State on this work? If so, what went well/wrong? If not, what gaps/challenges/barriers did you face?
- As we start to embark on this work, is there any component you think is critical for us to consider or resource you would like to be created?
- We are not trying to recreate the wheel, existing resources that you have valued can help inform this process.



Have you collaborated with Tribes on IK's in Climate Research and Planning? If you are a tribal representative, have you worked with the state, local, or academic partners on this?

If so, what went well/wrong? If not, what gaps/challenges/barriers did you face?



As we start to embark on this work, is there any component you think is critical for us to consider or resource you would like to be created?

Can you suggest existing resources that can further inform this process?





CALIFORNIA'S FIFTH CLIMATE CHANGE ASSESSMENT

Register for an in-person workshop near you!

- Sacramento Valley: July 11, 2023
- San Joaquin Valley: July 19, 2023
- San Francisco Bay Area: July 25, 2023
- Sierra Nevada: August 10, 2023
- Inland Deserts: August 15, 2023

- Central Coast: August 24, 2023
- North Coast: August 29, 2023
- Los Angeles: September 12, 2023
- San Diego: September 13, 2023





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Sign up for the Tribal Research Program Mailing List









