NCAR | UNIVERSITY CORPORATION UCAR | FOR ATMOSPHERIC RESEARCH

ATTEND THE 8TH ANNUAL RISING VOICES WORKSHOP APRIL 29TH TO MAY 1ST, 2020

Rising Voices: Climate Resilience through Indigenous and Earth Sciences supports a growing network of over 560 Indigenous, tribal, and community leaders, atmospheric, social, biological, and ecological scientists, students, educators, and other experts. This network facilitates intercultural research for

understanding and adapting to extreme weather and climate events through the annual workshop and listserv. Over seven years, RV has developed leaders who are fluent in both Earth system science fields and culturally competent research practices. The RV networks strengthen and advance science by embracing Indigenous science, experience, and values, and linking these to research on complex problems that address societal needs in the face of climate change. In doing so, Rising Voices builds upon and directly supports NCAR's mission to cocreate and provide actionable science.

"My involvement in RV has empowered my work as an Indigenous scientist.
I now have a broad network I can contact and learn from to navigate through unique challenges." - RV participant

Why Do Intercultural Research? Indigenous ways of knowing are rigorous knowledge systems based on lifetimes of observing and interacting with the environment. Developed over generations, these knowledge systems extend our view of Earth Science for thousands of years. For example, Diné (Navajo) elders' observations and hydrological measurements of water conditions on the Navajo Nation led to new insights about recent decreases in annual precipitation and what this means in the context of climate projections. In the Arctic, Inuit hunters helped identify a strong drop in day-to-day persistence in the spring afternoon local temperatures over the past two decades, with implications for our understanding of local, regional, and global climate changes. ²

"As someone who is not Indigenous, I have learned incredibly valuable lessons for how to guide my work in ways that are positive, inclusive, and aware." - RV Participant

What are the benefits to NCAR|UCAR staff?

- Engage in more diverse and equitable research processes.
- Get funded through NSF and other funding agencies that are promoting collaboration with Indigenous communities (NSF's Navigating the New Arctic) as both project partners and through broader impact activities required on all NSF grants.
- Define new or refine existing scientific questions.
- Do science that creates a lasting difference and real-world outcomes.
- Support the NCAR and UCAR strategic plans by including Indigenous communities and their place- and experience-based observations in the science.

How to Get Involved?

Please join us for the next RV workshop to be held in partnership with the Lummi Nation and Northwest Indian College near Bellingham, Washington, April 29 to May 1, 2020. Applications (https://events.eply.com/RV8) for the 2020 workshop are open until December 18, 2019.

Rising Voices Partnerships

Rising Voices is co-administered by UCAR|NCAR and the Livelihoods Knowledge Exchange Network (LiKEN) in partnership with Haskell Indian Nations University, the Indigenous Peoples' Climate Change Working Group, and NOAA's Office for Coastal Management.

Program Leads

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RV 4 participants on Hawai'i Island, make the sign for the mountain with Maunakea in the background.

Rising Voices Steering Committee

Kristen Aponte, UCAR, Office of Diversity, Equity & Inclusion Paulette Blanchard, UCAR, NextGen Fellow Carolyn Brinkworth, UCAR, Office of Diversity, Equity & Inclusion Kristina Kekuewa, NOAA, Office for Coastal Management Katy Putsavage, UCAR, Office of Diversity, Equity & Inclusion Jean Tanimoto, NOAA, Office for Coastal Management Bill Thomas, NOAA, Office for Coastal Management Daniel Wildcat, Haskell Indian Nations University

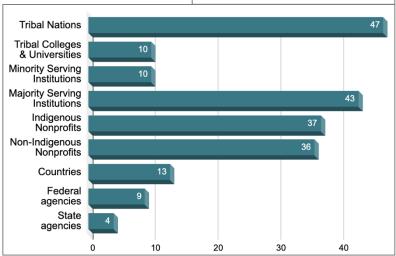
Rising Voices Council

Suzanne Benally, Independent Kuai Burgess, Kamehameha Schools Chris Caldwell, College of Menominee Nation

Ava Hamilton, Independent Lea Kekuewa, Kamehameha Schools Jasmine Neosh, College of Menominee Nation

Timothy Schneider, NCAR, RAL Eileen Shea, Independent Kalani Souza, Olohana Foundation Kyle Powys Whyte, Michigan State University





¹ Redsteer, M. Hiza, Kelley, K.B., Francis, H. and Block, D. (2018). Accounts from tribal elders: increasing vulnerability of the Navajo People to Drought and Climate Change in the Southwestern United States. In *Indigenous Knowledge for Climate Change Assessment and Adaptation*. D. Nakashima, I. Krupnik, and J. Rubis, eds., Cambridge University Press, Cambridge, United Kingdom and New York, USA.

² Weatherhead, Gearheard, and Barry (2010). Changes in Weather Persistence: Insights from Inuit Knowledge. *Global Environmental Change* 20:523-528.