



Listening Sessions

Tribal Engagement and Indigenous-Led Public Health Disaster Research

<https://hazards.colorado.edu/research/public-health-disaster/listening-sessions>

Listening Session 1 Report: Getting to Know Each Other and Our Work

June 6, 2023, 11:00 AM – 12:00 PM MDT

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Report Reviewers: Musabber Ali Chisty, Brigid Mark, and Lori Peek

Audience for this Report: This report is prepared for the Centers for Disease Control and Prevention by the Hazards Center at the University of Colorado Boulder.

Report Outline:

- I. Listening Session 1 – Key Takeaways
- II. Listening Session 1 – Session Overview
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- IV. Appendix B: Listening Session 1 – Zoom Session Participant List
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I. Listening Session 1 – Key Takeaways:

During this initial session, there was a great deal of interest and enthusiasm among the participants. Lessons we learned from the participants that could inform future research efforts, funding streams, or other activities included:

- The participants who were members of an Indigenous community and/or Indigenous professionals were centered during the group's large discussion. This gave Indigenous people and professionals the space to inform non-Indigenous participants of the realities of working within Indigenous communities from their lived experiences. This was an essential part of the first meeting as it shed light into the barriers that exist when wanting to help Indigenous communities not only during post-disaster planning but during the planning of preparedness and mitigation efforts as well.
- Indigenous professionals often struggle with bringing the current issues that exist in Indigenous communities into alignment with already-decided funding requirements within existing funding opportunities.
 - Protocols need to be changed to truly grant Indigenous people and professionals the capability to decide what the issues of priority are that need to be funded within

Indigenous communities. There should be consultations done with the Indigenous communities that are in need to better understand how funding can be successfully implemented within their communities.

- Building trust with Indigenous communities takes time and dedication. Researchers should be able to highlight why they desire to help, learn from, or collaborate with members of Indigenous communities. They should also be dedicated to remaining present within the community for the long term.
- Data sovereignty is important for research with Indigenous communities. However, an important question raised was, how do we implement true Indigenous data sovereignty into practice when best practices are not outlined in public health disaster research literature?

Some of the key lessons that we learned, as conveners, included:

- Although there were several Indigenous community members and professionals who had registered to join the listening session series, the first session was primarily non-Indigenous professionals who are intrigued and show dedication to contributing to public health and/or disaster research efforts to lessen Indigenous populations' vulnerability to disasters.
- The non-Indigenous participants hope to empower Indigenous communities through partnerships that honor Indigenous methodologies and ethically provide support to Indigenous communities.
- There were 29 participants in the first session who were placed into Zoom breakout rooms of 4-5 members to initiate smaller discussions. The participants were instructed to provide answers to discussion questions on a Google Jamboard. As facilitators, we quickly learned that the process of going into each breakout room and providing a Google Jamboard link was not a quick process. We also learned that there were some participants who were not comfortable with using Google Jamboard due to technical difficulties and the word count limit.

II. Listening Session 1 - Session Overview

Introduction to Session 1 of the Listening Session Series

For session 1 of the **Tribal Engagement and Indigenous-Led Public Health Disaster Research Listening Session Series**, there were 83 registrants (see **Appendix A** for full list) and 29 participants who were in attendance. To begin the listening session series, the facilitators, Melissa Villarreal and Shelby Ross, presented [a land acknowledgement](#) and the overall goals of the Indigenous led-listening session series. The goals include **1)** to develop a better understanding of the current status of Indigenous-led public health disaster research while learning more about effective strategies for tribal engagement and intercultural collaboration, **2)** to work together to identify future directions for public health disaster research with Indigenous populations and in tribal regions, and **3)** to support and maintain the community of practice for years to come by cultivating a network of public health practitioners, disaster researchers, and those working at the interface of the two fields.

Tutorial to Google Jamboard and Participant Introductions

The facilitators also conducted a tutorial of how to use Google Jamboard, a tool to increase the collaborative and interactive nature of the listening session. During this "test run," the participant group was asked to join the Jamboard and to answer the following questions: 1) *Introduce yourselves, what is your name and affiliation?* and 2) *What*

research/practice are you currently involved in or what is some relevant past research/practice experience that you have? The participants added their information to the Jamboard using the “sticky note” function.

Based on **Question 1**, nine of the participants were from the University of Colorado Boulder with six associated with the Natural Hazards Center; six participants were employed by state/federal agencies; five participants were students from various universities; three participants were from a Tribal agency; two of the participants were from the U.S. Geological Survey; and one participant was in private industry. See **Appendix B** for a list of all participants.

In answering **Question 2**, the participants revealed that they are involved in diverse research and practice initiatives and came to the group with a range of experiences (see Table 1).

Table 1. Research and Practice Backgrounds of Participants

Self-Reported Research Backgrounds of Participants	Self-Reported Practical Backgrounds of Participants
COVID-19 research	Disaster resilience leadership
Geochemistry research on sediment-water interactions to evaluate water quality in underserved communities	Equity and diversity
Research involving barriers & facilitators to use of portable air cleaners as an intervention for wildfire smoke	Municipal outreach for flood preparedness
Public health preparedness research as a CDC program official and collaborator	Crisis communications
Political participation and behavior research	Science communication and public outreach of public health issues
Projects assessing attitudes about Native American issues in the U.S. and Indigenous politics in Latin America	Hazard risk assessment for local public health departments
Research to identify, locate, and measure socially vulnerable populations to better assist these populations before, during, and after disasters	Indigenous-led, non-FEMA funded Disaster Case Management program at the Lowlander Center after Hurricane Ida
Children in schools in disaster, social vulnerability, and disaster resilience	Work in the City of Wolfforth Fire and Emergency Management
Post disaster relocation sites in Southeast Asia	Working with primarily rural, coastal communities to support resilience planning efforts

Developing and implementing CONVERGE training modules and the Public Health Disaster Research Award program at the Natural Hazards Center	Tribal engagement around public health in the Pacific Northwest
Research to help under-resourced communities' resilience	Tribal engagement with ShakeAlert and the U.S. Geological Survey
Leading the Social Science Extreme Events Research network's data analyses	Preparing craft-focused artists against disasters and offering emergency relief grants
	Conducting jurisdictional risk assessments for Tribal Nations and COVID-19 surveillance with the Indian Health Service
	Working with Tribes in California to prevent or reduce the human health impacts of climate-exacerbated hazards
	Working with the Wyoming Anticipating Climate Transition (WyACT)
	Working on a Long-Term Disaster Recovery Plan for the City and County of Honolulu
	Tribal emergency management

Breakout Room Discussions

For the second half of the listening session, the group was divided into six Zoom breakout rooms to facilitate high quality discussion amongst groups of 4-5 people. Within this breakout group session, the participants were asked to answer and discuss the following questions: **1) What brought you to the Listening Sessions series?**, **2) What main issues impacting tribal areas and Indigenous communities are you hoping to discuss during the Listening Sessions series?**, and **3) What outcomes are you hoping for from the Listening Sessions series?** Each breakout room was given their own Jamboard link with these new questions and the notes from each Jamboard are summarized below.

1) What brought you to the Listening Sessions series?

For **Question 1**, many of the participants were intrigued by the Indigenous led-listening sessions due to key words and the event name used in the recruitment email and/or the flyer advertised on social media platforms by the Natural Hazards Center. Other participants revealed that they were aware of the “reputation of the Natural Hazards Center for great, applied research” and were inclined to attend. For some, an academic advisor or colleague recommended the session series. Overall, most of the participants reported that they joined the Listening Session series because they are extremely interested in being involved in Indigenous-led disaster and public health research. Participants would like guidance on how to conduct ethical research within Indigenous

communities that is trusted by the Indigenous population and that is inclusive to Indigenous methodologies. Many of the participants expressed their interest in the overall goal of the listening session series of building this community of professionals who focus on the intersection of public health practice and disaster research within Indigenous communities.

2) What main issues impacting tribal areas and Indigenous communities are you hoping to discuss during the Listening Sessions series?

For **Question 2**, there were several key issues that participants were hoping to discuss during the listening session series. Participants hope to hear from members of Indigenous communities to better understand what kinds of things they want “us” (researchers and professionals) to focus on. They are interested in best practices for tribal community engagement, as well as how to incorporate Indigenous knowledge into practice and research. They wish to learn more about the role of Indigenous Sovereignty and traditional ecological knowledge in mitigating climate-induced hazards and reducing vulnerability. There is also interest in how research conducted with tribes and/or tribal organizations can be co-created, centering-Indigenous interests.

The participants also want to discuss disaster mitigation and preparedness: how emergency preparedness and resilience is defined in tribal communities and what elements must be present to constitute a prepared and resilient tribal community. They are interested in how to plan for compounding and cascading disaster events within Indigenous communities, and how to ensure that these communities are getting the assistance and much-needed attention that they need during disasters. They wish to learn about strategizing and engaging with Indigenous communities before and during disasters to increase preparedness, response, information sharing. There is interest in understanding what data systems are in place for emergency preparedness and response surveillance for monitoring outcomes in Indigenous communities. Participants are interested in learning more about tribal initiatives and Indigenous communities' strategies for disaster mitigation and preparedness related to drought, flood, and wildfire.

Finally, related to public health, there is interest in providing ethical, culturally sensitive approaches for health care/mental health after disasters, as well as acknowledging Indigenous peoples' fraught relationship with public health.

3) What outcomes are you hoping for from the Listening Sessions series?

For **Question 3**, the participants mentioned that they hope to get a sense of the foundation of existing research at the intersection of Indigenous peoples and hazards and disaster work and would like suggestions on literature they should read. Participants would like to have the opportunity to aid future work in public health disaster research with Indigenous populations and tribal regions. They want to become more aware of ideas from other states/geographic areas for program/policy diffusion to learn and build connections and to facilitate information sharing, mutual aid, partnerships, and collaboration. Participants highlighted the desire to recruit Indigenous community members as future reviewers / contributors for CONVERGE Training Modules, to build a

report from the Listening Sessions series to help inform future sessions and broader initiatives, and to help develop future calls for the Public Health Disaster Research Award Program. Participants mentioned that they would like to utilize the community of research and practice developed from these Listening Sessions as a "go to" committee that will serve as a bridge to tribal and science communities. Building a community of research and practice, according to participants, can help to reduce disaster risk, develop a body of knowledge and resources that are useful for improving public health practice in tribal communities, facilitate learning more about best practices for engaging tribes in collaborative research projects, increase knowledge and culturally informed communication, find strategies for engagement with Indigenous populations that gives credit to these populations, de-centers non-Native researchers, and genuinely gives back, building trust and connections with Indigenous researchers and community leaders to help develop solutions to pressing disaster-related issues in Indigenous communities. Participants often communicated using the Zoom chat function (see **Appendix C**) and shared additional resources there (see **Appendix D**).

III. Appendix A: Listening Session 1 – Table of Registrants

Name	Email
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Lori Peek	lori.peek@colorado.edu

IV. Appendix B: Listening Session 1 - Participant List

1. Melissa Villarreal (Facilitator)
 2. Shelby Ross (Facilitator)
 3. Lori Peek (PI)
 4. Carew Boulding
 5. Lauren Dent
 6. Osamu Kumasaka
 7. Traci Olson
 8. Tyrone Peterson
 9. Mary Leinhos
 10. Rachel Adams
 11. Tracy Thomas
 12. Anderson de Figueiredo
 13. Jennifer Tobin
 14. Jolie Breeden
 15. Kathleen Moloney
 16. Mary Painter
 17. Chelsea LeNoble
 18. Dayea Shim
 19. Laura Olson
 20. Meghan Mordy
 21. Rebecca Blackwood
 22. Chevy Bullington-Condon
 23. Christine Gibb
 24. Christopher Dyer
 25. Heather Beffa
 26. Heather Champeau
 27. Lynn Walkiewicz
 28. Ned Swanberg
 29. Simplicie Feikoumo
-

V. Appendix C: Listening Session 1 – Zoom Chat

- 12:00:47 From Melissa Villarreal, Natural Hazards Center (she/her) to Everyone:
Melissa Villarreal, Houston, Texas!
- 12:00:47 From Jennifer Tobin to Everyone:
Hello, this is Jennifer Tobin calling in from Fort Collins, Colorado.
- 12:00:51 From Lauren Dent to Everyone:
Lauren Dent, USGS - Pasadena, CA
- 12:00:54 From Chelsea LeNoble to Everyone:
Hi, all! I am calling in from Sanford, FL.
- 12:01:01 From Lori Peek, Natural Hazards Center to Everyone:
Hi! Lori Peek, Natural Hazards Center, Boulder, Colorado!
- 12:01:06 From Lynn Walkiewicz to Everyone:
Good afternoon. Lynn Walkiewicz, Individual Assistance Officer, Maine Emergency Management Agency
- 12:01:07 From Chevy Bullington-Condon to Everyone:
Chevy Bullington-Condon, Southern Plains Tribal Health Board, Oklahoma City OK
- 12:01:14 From Matt Short to Everyone:
Lubbock, TX
- 12:01:23 From Lori Peek, Natural Hazards Center to Everyone:
We are definitely covering coast to coast!
- 12:01:24 From Traci Olson to Everyone:
Oregon Coast
- 12:01:25 From Kathleen Moloney to Everyone:
Kathleen Moloney, University of Washington in Seattle
- 12:01:29 From Lori Peek, Natural Hazards Center to Everyone:
North and South!
- 12:01:32 From Mary Painter to Everyone:
Hey y'all! Mary Angelica Painter from St. Louis, Missouri
- 12:01:46 From Wie Yusuf to Everyone:
Wie Yusuf, Old Dominion University, Norfolk VA

12:02:04 From Anderson de Figueiredo to Everyone:

Hello, this is Anderson De Figueiredo calling in from Laramie, WY.

12:02:20 From Chelsea LeNoble to Everyone:

Reacted to "We are definitely co..." with 😊

12:02:24 From Meghan Mordy to Everyone:

Hi everyone, I am in the beautiful foothills of the Cascade Mountains, Sammamish, WA

12:02:33 From Jobyna (she/her) McCarthy to Everyone:

Jobyna McCarthy, University of Montana in Missoula

12:02:39 From Brigid Mark to Everyone:

Brigid, CU Boulder, CO - Ute, Cheyenne, Arapaho territory

12:02:58 From Dayea Shim to Everyone:

Dayea Shim, Portland, ME

12:03:43 From Christopher Dyer to Everyone:

OL _ Christopher Dyer here from mountains of Virginia Professor at UNM Gallup

12:04:28 From Lori Peek, Natural Hazards Center to Everyone:

<https://www.colorado.edu/cnais/>

12:06:59 From Lori Peek, Natural Hazards Center to Everyone:

Shelby's bio is here: <https://hazards.colorado.edu/biography/shelby-ross>

12:07:26 From Lori Peek, Natural Hazards Center to Everyone:

And here is Melissa's bio: <https://hazards.colorado.edu/biography/melissa-villarreal>

12:07:47 From Simplice Feikoumo to Everyone:

Hello Everyone from Simplice Feikoumo, PhD

12:12:42 From Lori Peek, Natural Hazards Center to Everyone:

Schedule for future sessions, here: <https://hazards.colorado.edu/research/public-health-disaster/listening-sessions/schedule-registration>

12:17:13 From Melissa Villarreal, Natural Hazards Center (she/her) to Shelby Ross (Direct Message):

I'm going to do 5 breakout rooms of 7 people each. I'll go into rooms 1-3 to drop in their link and instructions from the facilitation document. Can you do that for 4-5? Thank you! So far so good!

12:18:59 From Melissa Villarreal, Natural Hazards Center (she/her) to Everyone:

To access the JamBoard, click this link:

<https://jamboard.google.com/d/1RID0aaD3raHhwwDWvxbroo4LawXdM1yDaV1apkRkmg>

[E/edit?usp=sharing](#). You do not have to sign in. You will find the "sticky note" function on the left-hand side toolbar. It is the fourth icon down. To post a sticky note on the JamBoard, you can click that icon and type in your comment in the pop-up box, then click save. Your sticky note will then be added to the JamBoard. You can do this as many times as you'd like to add different responses.

12:21:33 From Christopher Dyer to Everyone:
Christopher Dyer - UNM Gallup Anthropology

12:21:43 From Lori Peek, Natural Hazards Center to Everyone:
Melissa and Shelby - this is wonderful! LOVE seeing this!

12:22:15 From Lauren Dent to Everyone:
I love how well HazWS has trained us to not use acronyms 😊!

12:25:47 From Lori Peek, Natural Hazards Center to Everyone:
Lucy Carter wrote an amazing thesis on the # of FEMA approved tribal mitigation plans. Synopsis is here: <https://hazards.colorado.edu/article/participation-please-barriers-to-tribal-mitigation-planning>

12:25:56 From Lori Peek, Natural Hazards Center to Everyone:
PLEASE share links to resources, publications, guides, etc. in the CHAT!

12:27:46 From Lori Peek, Natural Hazards Center to Everyone:
Thank you, Lauren! And Lauren will you please share the link to your recent publication in the chat!

12:27:53 From Lauren Dent to Everyone:
Shameless plug! My recent work on Tribal engagement on public health in the Pacific northwest: <https://link.springer.com/article/10.1007/s10584-023-03499-z>

12:28:21 From Lauren Dent to Everyone:
Reacted to "Thank you, Lauren! A..." with 🤔

12:28:33 From Jolie Breeden to Everyone:
Reacted to "Shameless plug! My ..." with ❤️

12:28:46 From Chevy Bullington-Condon to Everyone:
Reacted to "Shameless plug! My ..." with ❤️

12:29:23 From Lori Peek, Natural Hazards Center to Everyone:
Amazing to read this post it notes!

12:29:24 From Heather Beffa to Everyone:
How much time will we be in the breakout rooms?

12:30:26 From Mary Leinhos to Everyone:
Reacted to "Shameless plug! My ..." with 👍

12:30:31 From Mary Painter to Everyone:

Reacted to "Shameless plug! My ..." with ❤️

12:32:04 From Melissa Villarreal, Natural Hazards Center (she/her) to Everyone:

To access your JamBoard, click this link:

<https://jamboard.google.com/d/1etllGAdT4v0dVx8xjfoVEGldlnxBjFqS1z5wkoHsJKo/edit?usp=sharing>. You do not have to sign in. You will find the "sticky note" function on the left-hand side toolbar. It is the fourth icon down. To post a sticky note on the JamBoard, you can click that icon and type in your comment in the pop-up box, then click save. Your sticky note will then be added to the JamBoard. You can do this as many times as you'd like to add different responses.

12:33:10 From Melissa Villarreal, Natural Hazards Center (she/her) to Everyone:

To access your JamBoard, click this link:

https://jamboard.google.com/d/1MFNaPWPky2YzcilX5j6zPnXoG5tIzWwHJmW6z54THX_0/edit?usp=sharing. You do not have to sign in. You will find the "sticky note" function on the left-hand side toolbar. It is the fourth icon down. To post a sticky note on the JamBoard, you can click that icon and type in your comment in the pop-up box, then click save. Your sticky note will then be added to the JamBoard. You can do this as many times as you'd like to add different responses.

12:35:00 From Melissa Villarreal, Natural Hazards Center (she/her) to Everyone:

To access your JamBoard, click this link:

https://jamboard.google.com/d/15lhEQSnlnL7_eAll1gkDkuS9TGQpPgSI3kaEDXn21M/edit?usp=sharing. You do not have to sign in. You will find the "sticky note" function on the left-hand side toolbar. It is the fourth icon down. To post a sticky note on the JamBoard, you can click that icon and type in your comment in the pop-up box, then click save. Your sticky note will then be added to the JamBoard. You can do this as many times as you'd like to add different responses.

12:44:01 From Melissa Villarreal, Natural Hazards Center (she/her) to Everyone:

Hi all! Were you able to access the JamBoard and/or is someone taking notes to capture the wonderful insights here? Thank you!

12:52:12 From Lori Peek, Natural Hazards Center to Everyone:

This was great, thank you!!!!

13:01:07 From Osamu Kumasaka (he/him), CDPH to Everyone:

I'm sorry, I have to hop off. This was really fantastic - thanks! Looking forward to the rest of the series.

13:01:17 From Kathleen Moloney to Everyone:

Same, great session!

13:01:28 From Melissa Villarreal, Natural Hazards Center (she/her) to Everyone:

Thank you so much for being here!

13:01:31 From Anderson de Figueiredo to Everyone:

Same, Thanks!


13:02:13 From Lori Peek, Natural Hazards Center to Everyone:

Thank you so much, Rebecca!

13:02:29 From Rebecca Blackwood to Everyone:

You're welcome


13:02:33 From Chelsea LeNoble to Everyone:

Reacted to "Thank you so much, R..." with 

13:02:40 From Mary Painter to Everyone:

Reacted to "You're welcome" with 


13:02:40 From Meghan Mordy to Everyone:

Reacted to "Thank you so much, R..." with 

13:02:46 From Meghan Mordy to Everyone:

Reacted to "You're welcome" with 

13:02:49 From Meghan Mordy to Everyone:

Removed a  reaction from "You're welcome"

13:02:57 From Lynn Walkiewicz to Everyone:

Melissa, do we need to register for the remaining listening sessions? If so, can you send us a link for the registration?

13:03:30 From Melissa Villarreal, Natural Hazards Center (she/her) to Everyone:

Lynn- yes! Here is the link to register for the rest: To register for the virtual listening sessions and to learn more about the in-person listening session, please visit

<https://hazards.colorado.edu/research/public-health-disaster/listening-sessions>


13:05:19 From Lauren Dent to Everyone:

Thank you so much for putting these listening sessions together and hosting us this morning! I'm so excited to be part of and support this community of colleagues :)

13:05:25 From Melissa Villarreal, Natural Hazards Center (she/her) to Everyone:

Reacted to "Thank you so much fo..." with 

13:05:29 From Chelsea LeNoble to Everyone:

Reacted to "Thank you so much fo..." with 

13:06:00 From Melissa Villarreal, Natural Hazards Center (she/her) to Everyone:

The recording of this session will be posted on this website:

<https://hazards.colorado.edu/research/public-health-disaster/listening-sessions>

13:06:31 From Lori Peek, Natural Hazards Center to Everyone:

Registration for future sessions here: <https://hazards.colorado.edu/research/public-health-disaster/listening-sessions/schedule-registration>

13:06:48 From Jennifer Tobin to Everyone:

Thank you everyone for being here!!

13:06:50 From Lori Peek, Natural Hazards Center to Everyone:

Thank you, Melissa, and Shelby!

13:06:58 From Mary Painter to Everyone:

Thank you, Melissa, and Shelby!!
13:07:01 From Chelsea LeNoble to Everyone:
Thank you so much for offering this series!

VI. Appendix D: Listening Session 1 - Resources

Article links shared in chat or via Jamboard:

- Carter, L., and Peek, L. 2016. "[Participation Please: Barriers to Tribal Mitigation Planning.](#)" Natural Hazards Center.
- Dent, L.A., Donatuto, J., Campbell, L. *et al.* [Incorporating Indigenous voices in regional climate change adaptation: opportunities and challenges in the U.S. Pacific Northwest.](#) *Climatic Change* **176**, 27 (2023). <https://doi.org/10.1007/s10584-023-03499-z>
- LeNoble, C., Naranjo, A., Shoss, M. *et al.* [Navigating a Context of Severe Uncertainty: The Effect of Industry Unsafety Signals on Employee Well-being During the COVID-19 Crisis.](#) *Occup Health Sci* (2023). <https://doi.org/10.1007/s41542-023-00155-x>



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