

Alison M. Meadow, Ph.D.

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[Policy Citation Profile](#)

Education

M.S. Planning University of Arizona Concentration: Environmental and Healthy Cities Planning	2010
Ph.D. Anthropology University of Alaska Fairbanks Dissertation: Evaluating and Designing Urban Food Systems	2009
M.A. American Indian Studies University of Arizona Thesis: The Legislation of Identity	1999
B.A. (Hons.) Native Studies and Anthropology Trent University	1996

Employment

Associate Research Professor Office of Societal Impact – University of Arizona	current
Associate Research Professor Arizona Institutes for Resilience – University of Arizona	2020 - 2022
Associate Research Scientist Institute of the Environment – University of Arizona	2017 – 2020
Adjunct Assistant Research Scientist School of Natural Resources and the Environment – University of Arizona	2015 - present
Staff Scientist Center for Climate Adaptation Science and Solutions – University of Arizona	2014 - 2017
Program Manager Southwest Climate Science Center – University of Arizona	2012 - 2014
Assistant Research Scientist University of Arizona: Department of Soil, Water and Environmental Science	2010 - 2013

Program Evaluator Meadow Consulting	2002 - 2003
Professional Research Assistant University of Colorado Health Sciences Center	2002 - 2003
Action Research Facilitator Fairbanks North Star Borough School District	1999 - 2002

Peer Reviewed Publications

1. Meadow, Alison M., Daniel B. Ferguson, and Hailey Wilmer. accepted. Planning Ethical Research: Incorporating Expanded Ethical Principles into Your Work. In *The Field Guide of Mixed Methods Research*, edited by R. Lave and S. Lane: Open Book Publishing.
2. Martinez, Deniss J., **Alison M. Meadow**, Elizabeth Rose Middleton, and Julie Maldonado. accepted. Climate Justice and Climate Adaptation in the US Southwest: Indigenous Community Climate Adaptation Leadership and Opportunities for Scientific Collaboration. *Weather, Climate and Society*.
3. Meadow, Alison M., Gigi Owen, Nupur Joshi, and Elise Lodge Otto. accepted. Combining Impact Goal and Impact Descriptor Frameworks to Elucidate the Societal Impacts of Research: A Pilot Study. *Research For All*.
4. Liang, X.-Z., Gower, D., Kennedy, J. A., Kenney, . . ., **Meadow, A. M.**, Neale, C. M. U., Newman, G., . . . Zhang, X. 2024. DAWN: Dashboard for Agricultural Water Use and Nutrient Management—A Predictive Decision Support System to Improve Crop Production in a Changing Climate. *Bulletin of the American Meteorological Society*, 105(2), E432-E441. <https://doi.org/10.1175/BAMS-D-22-0221.1>
5. Jagannathan, K., Emmanuel, G., Arnott, J., Mach, K. J., Bamzai-Dodson, A., Goodrich, K. A., Myer, R., Neff, M., Sjostrom, K. D., Timm, K. M. F., Turnhout, E., Wong-Parodi, G., Bednarek, A., **Meadow, A. M.**, Dewulf, A., Kirchhoff, C., J., Moss, R. H., Nichols, L., Oldach, E., . . . Klenk, N. 2023. A Science of Actionable Knowledge research agenda: Drawing from a review of the most misguided to the most enlightened claims in the science-policy interface literature. *Environmental Science & Policy*, 144, 174 - 186. <https://doi.org/10.1016/j.envsci.2023.03.004>
6. Gerlak, Andrea K., Zack Guido, Gigi Owen, Mariana Sofia Rodriguez McGoffin, Elena Louder, Julia Davies, Kelly Jay Smith, Andrew Zimmer, Anna M. Murveit, **Alison M. Meadow**, Padmendra Shrestha, and Nupur Joshi. 2023. Stakeholder Engagement in the Co-Production of Knowledge for Environmental Decision-making. *World Development*. 170 (106336). <https://doi.org/10.1016/j.worlddev.2023.106336>

7. National Academies of Sciences, Engineering, and Medicine. 2023. Strengthening Equitable Community Resilience: Criteria and Guiding Principles for the Gulf Research Program's Enhancing Community Resilience (EnCoRe) Initiative. Washington, DC: The National Academies Press. <https://doi.org/10.17226/26880>
8. Murveit, Anna M., Sonia Delphin, Carlie Domingues, Shawn D. Bourque, Sam D. Faulstich, Gregg Garfin, Nancy Huntly, **Alison M. Meadow**, and Vikki Preston. 2023. Stories as Data: Indigenous Research Sovereignty and the "Intentional Fire" Podcast. *Environment and Planning F*. <https://doi.org/10.1177/26349825221142293>
9. Ferguson, Daniel B., **Alison M. Meadow**, and Henry P. Huntington. 2022. Making a Difference: Planning for Engaged Participation in Environmental Research. *Environmental Management* 69 (2):227-243. <https://doi.org/10.1007/s00267-021-01585-5>
10. Wilmer, Hailey, **Alison M. Meadow**, Amanda Bentley Brymer, Stephanie Russo Carroll, Daniel B. Ferguson, Ibrahim Garba, Christina Green, Gigi Owen, and Dannele E. Peck. 2021. Expanded ethical principles for research partnership and transdisciplinary natural resource management science. *Environmental Management*. 68(4) 453-467. <https://doi.org/10.1007/s00267-021-01508-4>
11. Stern, Marc J, David D Briske, and **Alison M. Meadow**. 2021. Opening learning spaces to create actionable knowledge for conservation. *Conservation Science and Practice*: e378. <https://doi.org/10.1111/csp2.378>
12. Rozance, Mary Ann, Meade Krosby, **Alison M. Meadow**, Amy Snover, Daniel B Ferguson, and Gigi Owen. 2020. Building capacity for societally engaged climate science by transforming science training. *Environmental Research Letters* 15 (12):125008. [10.1088/1748-9326/abc27a](https://doi.org/10.1088/1748-9326/abc27a)
13. Mach, Katharine J., Maria Carmen Lemos, **Alison M. Meadow**, . . . , and Gabrielle Wong-Parodi. 2020. Actionable knowledge and the art of engagement. *Current Opinion in Environmental Sustainability* 42:30-37. <https://doi.org/10.1016/j.cosust.2020.01.002>
14. Arnott, James, Christine Kirchhoff, J., Ryan M. Meyer, **Alison M. Meadow**, and Angela T Bednarek. 2020. Sponsoring actionable science: What public science funders can do to advance sustainability and the social contract for science. *Current Opinion in Environmental Sustainability* 42:38-44. <https://doi.org/10.1016/j.cosust.2020.01.006>
15. VanderMolen, Kristin, **Alison M. Meadow**, Alexandra Horangic, and Tamara U. Wall. 2020. Typologizing Stakeholder Information Use to Better Understand the Impacts of Collaborative Climate Science. *Environmental Management*. 65: 178-189. [10.1007/s00267-019-01237-9](https://doi.org/10.1007/s00267-019-01237-9)

16. Norström, Albert V., Christopher Cvitanovic, Marie F. Löf, Simon West, Carina A. Wyborn, Patricia Balvanera, Angela T. Bednarek, . . . **Alison M. Meadow**, Harini Nagendra, Davnah Payne, Garry D. Peterson, Belinda Reyers, Robert Scholes, Chinwe Ifejika Speranza, Marja Spiereburg, Mark Stafford-Smith, Maria Tengö, Sandra van der Hel, Ingrid van Putten, and Henrik Österblom. 2020. Principles for knowledge co-production in sustainability research. *Nature Sustainability*. January, 1-9. [10.1038/s41893-019-0448-2](https://doi.org/10.1038/s41893-019-0448-2)
17. Cvitanovic, Christopher, Mark Howden, RM Colvin, Albert Norström, **Alison M Meadow**, and PFE Addison. 2019. Maximising the benefits of participatory climate adaptation research by understanding and managing the associated challenges and risks. *Environmental Science & Policy* 94:20-31. <https://doi.org/10.1016/j.envsci.2018.12.028>
18. Lemos, Maria Carmen, James C Arnott, Nicole M Ardoin, Kristin Baja, Angela T Bednarek, Art Dewulf, Clare Fieseler, Kristen A Goodrich, Kripa Jagannathan, Nicole Klenk, Katharine J. Mach, **Alison M. Meadow**, Ryan Meyer, Richard H. Moss, Leah Nichols, K. Dana Sjostrom, Missy Stults, Esther Turnhout, Catherine Vaughan, Gabrielle Wong-Parodi, and Carina A. Wyborn. 2018. To co-produce or not to co-produce. *Nature Sustainability* 1 (12):722. <https://doi.org/10.1038/s41893-018-0191-0>
19. Djenontin, Ida Nadia S., and **Alison M. Meadow**. 2018. The Art of Co-production of Knowledge in Environmental Sciences and Management: Lessons from International Practice. *Environmental Management* 61 (6):885-903. <https://doi.org/10.1007/s00267-018-1028-3>
20. DeCrappeo, Nicole M., Gustavo A. Bisbal, and **Alison M. Meadow**. 2018. A Path to Actionable Climate Science: Perspectives from the Field. *Environmental Management* 61 (2):181-187. [10.1007/s00267-017-0960-y](https://doi.org/10.1007/s00267-017-0960-y)
21. Wall, Tamara, **Alison M. Meadow**, and Alexandra Horangic. 2017. Developing Evaluation Indicators to Improve the Process of Co-producing Usable Climate Science. *Weather, Climate, and Society* 9 (1):95-107. <https://doi.org/10.1175/WCAS-D-16-0008.1>
22. Crimmins, Michael A., Daniel B. Ferguson, **Alison M. Meadow**, and Jeremy L. Weiss. 2017. Discerning “Flavors” of Drought Using Climate Extremes Indices. *Journal of Applied Meteorology and Climatology* 56 (4):989-1001. <https://doi.org/10.1175/JAMC-D-16-0270.1>
23. Chief, Karletta, **Alison Meadow**, and Kyle Whyte. 2016. Engaging Southwestern Tribes in Sustainable Water Resources Topics and Management. *Water* 8 (8):350. <https://doi.org/10.3390/w8080350>
24. Ferguson, Daniel B., Anna Masayeva, **Alison M. Meadow**, and Michael A. Crimmins. 2016. Rain gauges to range conditions: Developing a local drought information system using locally relevant observations. *Weather, Climate, and Society* 8 (4):345-359. <https://doi.org/10.1175/WCAS-D-15-0060.1>

25. **Meadow, Alison M.**, Zack Guido, Michael A. Crimmins, and Jonathan Mcleod. 2016. From Principles to Action: Applying the National Research Council's Principles for Effective Decision Support to the Federal Emergency Management Agency's Watch Office. *Climate Services* 1:12-23. <https://doi.org/10.1016/j.cliser.2016.02.002>
26. **Meadow, Alison M.**, Daniel B. Ferguson, Zack Guido, Alexandra Horangic, Gigi Owen, and Tamara Wall. 2015. Moving toward the Deliberate Coproduction of Climate Science Knowledge. *Weather, Climate, and Society* 7 (2):179-191. <https://doi.org/10.1175/WCAS-D-14-00050.1>
27. Brugger, Julie, **Alison Meadow**, and Alexandra Horangic. 2015. Lessons from First Generation Climate Science Integrators. *Bulletin of the American Meteorological Society* 97 (3):355-365. <https://doi.org/10.1175/BAMS-D-14-00289.1>
28. **Meadow, Alison M.**, Michael A. Crimmins, and Daniel B. Ferguson. 2013. Field of Dreams or Dream Team? Assessing Two Models for Drought Impact Reporting in the Semiarid Southwest. *Bulletin of the American Meteorological Society* October:1507 - 1517. <https://doi.org/10.1175/BAMS-D-11-00168.1>
29. **Meadow, Alison M.** 2013. Alternative Food Systems at Ground Level: The Fairbanks Community Garden. *Journal of Ecological Anthropology* 16 (1):76-84.
30. **Meadow, Alison M.** 2012. Assessing access to local food system initiatives in Fairbanks, Alaska. *Journal of Agriculture, Food Systems, and Community Development* 2 (2). <https://doi.org/10.5304/jafscd.2012.022.006>
31. **Meadow, Alison**, Chanda Meek, and Shannon McNeeley. 2009. Towards Integrative Planning for Climate Change Impacts on Rural-Urban Migration in Interior Alaska: A Role for Anthropological and Interdisciplinary Perspectives. *Alaska Journal of Anthropology* 7 (1).

Other Publications and Reports

1. Meadow, Alison M. *BIO5 Societal Impacts: Contributions to UArizona and Beyond*.
2. Meadow, Alison M. and Gigi Owen. 2023. *Integrating Societal Impacts into Strategic Planning: Recommendations for the Joint Fire Science Program Fire Science Exchange Network*.
3. Meadow, Alison M. 2023. *Northwest Climate Adaptation Science Center 2018 - 2023 Science Agenda Evaluation: Uses of NW CASC-funded research by resource management agencies*.

4. Meadow, Alison M., Jeremy Weiss, and Michael Crimmins. 2023. Climate Profile for the Quad Cities Region of Arizona. In *CLIMAS Community Climate Profiles*. University of Arizona.
5. Meadow, Alison M., Gigi Owen, and Nupur Joshi. 2022. *Arizona Institutes for Resilient Environments and Societies Societal Impacts Assessment Report: How AIRES Contributes to Our Region and the World*.
6. Meadow, Alison M. and Gigi Owen. 2021 *Planning and Evaluating the Societal Impacts of Climate Change Research Project: A guidebook for natural and physical scientists looking to make a difference*. <http://doi.org/10.2458/10150.658313>
7. Meadow, Alison M., Jeremy Weiss, and Sarah LeRoy. 2021. Climate Profile for the Upper Santa Cruz Watershed – Santa Cruz County, Arizona. *CLIMAS Community Climate Profiles*. University of Arizona.
8. Meadow, Alison M., Sarah LeRoy, Jeremy Weiss, and Ladd Keith. 2020. Climate Profile for The Verde Valley. In *CLIMAS Community Climate Profiles*. University of Arizona.
9. Meadow, Alison M. 2020. Assessment of GLISA's Contribution to Societal Impacts in the Great Lakes Region. Report to the Great Lakes Integrated Sciences and Assessments Program. <https://glisa.umich.edu/>
10. Meadow, Alison M., Jeremy Weiss, Sarah LeRoy, Ladd Keith, Sharon Hausman, Ellu Nasser, Sascha Peterson, Alex Basaraba, and Nyssa Russell. 2019. Climate Profile for the Pueblo of Laguna. In *CLIMAS Community Climate Profiles*. University of Arizona – Institute of the Environment.
11. Meadow, Alison M., Sarah LeRoy, Jeremy Weiss, and Ladd Keith. 2019. Climate Profile for The Highlands at Dove Mountain. In *CLIMAS Community Climate Profiles*. Tucson: CLIMAS.
12. Meadow, Alison M., and Daniel B. Ferguson. 2017. Our Climate is Doing What? Tailoring Information about Regional Climate to Support Local Adaptation Decision Making. *Rural Connections* Spring.
13. Meadow, Alison M. 2017. *Defining RISA: Observations from Twenty Years of NOAA's Regional Integrated Sciences and Assessments Program*. Tucson: CLIMAS.
14. Rockman, Marcy, Marissa Morgan, Sonya Ziaja, George Hambrecht, and **Alison Meadow**. 2016. *Cultural Resources Climate Change Strategy*. Washington DC: Cultural Resources, Partnerships, and Science and Climate Change Response Program National Park Service. <https://www.nps.gov/subjects/climatechange/culturalresourcesstrategy.htm>
15. Meadow, Alison M., Daniel B. Ferguson, and Michael Crimmins. 2013. Helping a Community Develop a Drought Impacts Reporting System. *Rural Connections* 7 (15-18).

16. Meadow, Alison. 2012. Supermarkets in Fairbanks. *Agroborealis* 41 (1):9 - 11.
17. Paragi, T, S Craig Gerlach, and **A. Meadow**. 2010. *Security of red meat supply in Alaska. *Agroborealis* 41 (1):36-37.

Other Scholarly Products

1. Meadow, Alison M., Hailey Wilmer, and Daniel Ferguson. *Expanding Research Ethics in the Era of Transdisciplinary Research*. Northwest Climate Adaptation Science Center Actional Science Skills-Building Webinar Series. November 2020. <https://nwcasc.uw.edu/resources/actionable-science-webinars/>
2. Meadow, Alison M. and Gigi Owen. *Identifying and Reporting the Societal Impacts of Your Research*. April 2020. <https://youtu.be/jtSj8VmVpUA>
3. Meadow, Alison M. and Gigi Owen. *Understanding Organizations Using Ethnographic Field Methods*. Northwest Climate Adaptation Science Center Actional Science Skills-Building Webinar Series. November 2018. <https://nwcasc.uw.edu/resources/actionable-science-webinars/>
4. Meadow, Alison M. and Gigi Owen. *Using Interviews and Surveys to Strengthen Research Partnerships*. Northwest Climate Adaptation Science Center Actional Science Skills-Building Webinar Series. October 2018. <https://nwcasc.uw.edu/resources/actionable-science-webinars/>
5. Meadow, Alison M. *Considering Research Ethics and Design for Participatory Research Projects*. Northwest Climate Adaptation Science Center Actional Science Skills-Building Webinar Series. September 2018. <https://nwcasc.uw.edu/resources/actionable-science-webinars/>
6. Meadow, Alison M. *An Introduction to Collaborative Research Methods*. Northwest Climate Adaptation Science Center Actional Science Skills-Building Webinar Series. May 2018. <https://nwcasc.uw.edu/resources/actionable-science-webinars/>
7. Meadow, Alison M. and Gigi Owen. *Analyzing Qualitative Data: Understanding and Using Interview, Survey Observational Data*. Northwest Climate Adaptation Science Center Actional Science Skills-Building Webinar Series. December 2018. <https://nwcasc.uw.edu/resources/actionable-science-webinars/>

8. Weiss, Jeremy, Sarah LeRoy, **Alison M. Meadow**, and Chris Castro. 2018. Climate Change Impacts on the North American Monsoon: Summary for the Tohono O’odham Nation. In *CLIMAS Community Climate Profiles*. Tucson: University of Arizona.
9. Meadow, Alison M., Sarah LeRoy, Jeremy Weiss, and Ladd Keith. 2018. Climate Profile for The City of Flagstaff, Arizona. In *CLIMAS Community Climate Profiles*. Tucson: University of Arizona.
10. LeRoy, Sarah, **Alison M. Meadow**, and Jeremy Weiss. 2018. Climate-Related Hazards in the Town of Oro Valley, Arizona. In *CLIMAS Community Climate Profiles*. Tucson: University of Arizona.
11. Ferguson, D.B., M.A. Crimmins, A. Masayesva, **A.M. Meadow**, J.L. Weiss, H. Faulstich. 2017. *Drought Monitoring to Support Planning for the Hopi Tribe: Final Report from 2010-2016 Collaboration between the Hopi Department of Natural Resources and the Climate Assessment for the Southwest*. Tucson, AZ: Climate Assessment for the Southwest.
12. Meadow, Alison M., and Selso Villegas. 2017. Tohono O’odham Nation Climate Change Adaptation Plan. Sells, AZ: Tohono O’odham Nation Department of Water Resources.
13. Meadow, Alison M., J. Weiss, S. LeRoy, V. A. Small, M. Black, and D. Ferguson. 2017. Climate Profile for the Fort McDowell Yavapai Nation. Native Nations Climate Adaptation Program; University of Arizona.
14. Meadow, A., J. Weiss, S. Leroy, M. Black, D.B. Ferguson, and M. Crimmins. 2016. *Climate Profile for the Truckee River Basin and Pyramid Lake Indian Reservation*. Tucson, AZ: Native Nations Climate Adaptation Program, University of Arizona.
15. Meadow, A., M. Black, M. Crimmins, D.B. Ferguson, and J. Weiss. 2016. *Climate Profile of Gila River Indian Community*. Tucson, AZ: Native Nations Climate Adaptation Program, University of Arizona.

Presentations

1. Meadow, Alison M. *Building capacity for Engagement, Evidence Use, and Societal impact in research*. Assessing the Impacts of Engaged Research and Its Use: Evidence and Opportunities. Warrenton, VA; October 2023.
2. Meadow, Alison M. **Invited Speaker**. *Evaluating Climate Services*. National Academies of Science, Engineering, and Medicine: US Global Change Research Program Annual Meeting. October 2023.
3. Meadow, Alison M. **Invited Speaker**. *Transdisciplinary Approaches: Principles and Ethics*. USDA National Agricultural Library [Transdisciplinary Approaches Webinar Series](#). August 2023.

4. Meadow, Alison M. *How do we know if knowledge mobilization strategies are effective in climate science research?* Making, Mobilizing and Using Evidence in Policy and Practice Conference. Miami, FL; October 2022.
5. Meadow, Alison M. **Invited Keynote Speaker.** *Engaging, Collaborating, Learning, and Having Impact.* South Central Climate Adaptation Science Center Early Career Workshop. Norman, OK. July 2022.
6. Meadow, Alison M. *Deep Roots Make Strong Trees: Climate Adaptation Rooted in Community History.* Oil, Water and Climate: Environmental Histories of Texas. Institute for Historical Studies, University of Texas at Austin; April 2021.
7. Meadow, Alison M. *Evaluation Approaches to Inform Decision Making Under Deep Uncertainty Practices.* Society for Decision Making Under Deep Uncertainty Annual Meeting. Monterrey, MX (online due to pandemic); November 2020.
8. Meadow, Alison. M. and Ladd Keith. *Mitigating the Urban Heat Island.* Annual Desert Horticulture Conference. (online due to pandemic); May 2020.
9. Fields, Jennifer, **Alison M. Meadow**, Michelle Higgins, and Gigi Owen. Demonstrating Impact: Scaling from Project Evaluation to Collective Impact. Advancing Research Impacts in Society Summit. (online due to pandemic); April 2020.
10. Meadow, Alison. *Evaluating the Production and Impact of Actionable Knowledge.* National Council on Science and the Environment Annual Conference. Washington, DC; January 2020.

Service

Member, **Transforming Evidence Network Advisory Committee** (February 2024 – present)

Member, **USDA-NIFA Transdisciplinary Webinar Series Planning Committee** (May 2023 – present)

Member, **National Academies of Science, Engineering, and Medicine EnCoRe Criteria Study Committee** (July 2021 – 2023)

Member, **City of Tucson Landscape Advisory Committee** (October 2019 – October 2023)