

**Hallie Catherine Eakin**  
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## RESEARCH INTERESTS

- Household vulnerability and sustainability of adaptations to global change
- Governance, globalization and the institutional context of vulnerability and adaptation
- Rural development, sustainable food systems, agricultural change and food sovereignty
- Social-ecological resilience and integration of risk into development planning

## EDUCATION

2002 **Ph.D.** Geography, University of Arizona. Minor in Anthropology

Dissertation: *Rural Households' Vulnerability and Adaptation to Climatic Variability and Institutional Change: Three Cases from Central Mexico*. Director: Dr. Diana Liverman.

1998 **M.A.** Geography, University of Arizona.

Thesis: *Adapting to Climatic Variability in Tlaxcala, Mexico: Constraints and Opportunities for Small-scale Maize Producers*. Director: Dr. Diana Liverman.

1993 **B.A.** Environmental Studies, Brown University, *Magna Cum Laude*

Honors Thesis: *Anticipating Crisis: Structural Adjustment and Drought in Zimbabwe*. Directors: Dr. Robert Chen and Dr. Harold Ward.

## PROFESSIONAL EXPERIENCE

2018- **Professor.** School of Sustainability, and Senior Sustainability Scientist, Julie Ann Wrigley Global Institute of Sustainability. Arizona State University, Tempe. Affiliated with Geographical Sciences and Urban Planning; the School for the Future of Innovation in Society; the Decision Center for a Desert City; and the Urban Climate Research Center.

2011-2018 **Associate Professor.** School of Sustainability (same affiliations as above)

2014-2018 **Graduate Advising Faculty**, Postgrado en Sustentabilidad, Universidad Nacional Autónoma de México (UNAM), México.

2008- 2011 **Assistant Professor.** School of Sustainability, Arizona State University (ASU), Tempe. Affiliated with Geographical Sciences and Urban Planning.

2008–2012 **Adjunct Assistant Professor.** Department of Geography, University of California, Santa Barbara (UCSB).

2005–2008 **Assistant Professor.** Department of Geography, University of California, Santa Barbara.

2003–2005 **Postdoctoral Researcher.** Centro de Ciencias de la Atmósfera, Universidad Nacional Autónoma de México, Mexico.

2002 (Fall) **Postdoctoral Researcher.** U.S.-Mexican Studies Center, University of California, San Diego, La Jolla, CA.

1995–1996 **Long-term Consultant.** The World Bank, Southern Africa Agriculture and Environment Division, Washington, DC.

1993–1995 **Projects Assistant.** The World Bank, Southern Africa Agriculture and Environment Division, Washington, DC.

## RESEARCH GRANTS

### Funding Summary Table

| Year    | Sponsor  | Amount Directly Awarded | Amount Sub-Awarded (Eakin/ASU) |
|---------|--|-------------------------|--------------------------------|
| 2016-19 | International Social Science Council/ U. of Sussex |                         | \$61,695                       |
| 2014-18 | NSF- Coupled Natural Human Systems (CNH)           | \$1,498,870             |                                |
| 2013-14 | Walton Sustainability Solution Initiatives         | \$300,000               |                                |
| 2012-13 | NEXUS Fulbright                                    | \$30,000                |                                |
| 2011-12 | NSF-Catalyzing New International Collaboration     | \$59,983                |                                |
| 2011-14 | NSF/ Decision Center for a Desert City             |                         | \$116,029                      |
| 2011-13 | National Oceanic and Atmospheric Administration    | \$300,000               |                                |
| 2011-14 | NSF/ University of Georgia                         |                         | \$49,578                       |
| 2009-12 | U.S. Agency for International Development          | \$298,271               |                                |
| 2008-11 | NSF-Human Systems Dynamics (HSD)                   | \$627,316               |                                |
|         | <b>Total Funds Awarded</b>                         | <b>\$3,114,440</b>      | <b>\$165,607</b>               |

### Since Employment at ASU

- 2017-2018 **\$15,638** National Science Foundation Doctoral Dissertation Research Improvement Grant: Mapping and Modeling Clandestine Drivers of Urban Expansion in Mexico City. (P.I. Bill Lee Turner; Co-PIs Elizabeth Tellman, Hallie Eakin).
- 2016-2019 **\$61,695** (sub-award) **Co-PI**. International Social Science Council (ISSC) Transformative Knowledge Network Grant. Transformative pathways to sustainability: learning across disciplines, contexts and cultures. (P.I. Adrian Ely, University of Sussex; Co-PIs: Anabel Marin, CONICET, Buenos Aires; Ian Scoones, University of Sussex; Xiulan Zhang, Beijing Normal University; Abrol Dinesh, Jawaharlal University, New Delhi; Per Olsson, Stockholm University; Ochieng Cosmas, African Center for Technology Studies, Nairobi).
- 2014-2018 **\$1,498,870** National Science Foundation, Coupled Natural Human Systems. **P.I.** CNH: The Dynamics of Multi-Scalar Adaptation in Megacities. (ASU Co-PIs: Charles Redman, David Manuel-Navarrete, Enrique Vivoni, Matei Georgescu; UNAM Co-PIs: Luis Bojórquez-Tapia, Marisa Mazari-Hiriart, Effi Bournazou, Eric Morales, Juan Ansberto-Cruz Gerón).
- 2013-2014 **\$300,000** Next Generation Sustainability Project, Walton Sustainability Solution Initiative. **P.I.** (Shared with Ed Hackett) Co-Lab: Collaboration Laboratory, A Solution Space for Development Thinking.
- 2012-2013 **\$30,000**. NEXUS Fulbright Fellowship. **P.I.** Sustainable Adaptation to Urban Flood Risk: Enhancing Public Participation in the Rio Magdalena Watershed, Mexico City. Host: Dr. Marisa Mazari, Institute of Ecology, National Autonomous University, Mexico City.
- 2011-2012 **\$59,983** National Science Foundation-Catalyzing New International Collaborations. **P.I.** International collaboration to advance sustainability science in the US and Mexico. (Co-PI: Charles Redman, Luis Bojórquez-Tapia)
- 2011-2014 **\$116,029** Decision Center for a Desert City. **P.I.** Farmers' efforts in water conservation and the institutional constraints on adaptation. (Co-PIs: Abigail York, Rimjhim Aggarwal).
- 2011-2013 **\$300,000** National Oceanic and Atmospheric Administration. **P.I.** CSI: Risk perception, institutions and water conservation: Enhancing agricultural adaptation to future water scarcity in central Arizona. (Co-PIs: Marty Anderies, Abigail York).
- 2011-2014 **\$49,578** (sub-award) National Science Foundation, SES-Decision Risk and Management Science. **Co-P.I.** Collaborative Research: The relative importance of generic vs. specific capacity in addressing drought vulnerability in NE Brazil. (P.I. Don Nelson, University of Georgia and Maria Carmen Lemos, University of Michigan).

- 2009–2012 **\$298,271** United States Agency for International Development/ Higher Education for Development, United States-Mexico: Training, Internships, Exchanges and Scholars Program (TIES). **Co-P.I.** and Project Manager. Managing Biodiversity under Climate Change: Enhancing Capacities in Mexico for Conservation Planning, Decision-Making and Sustainability Assessment. (P.I. Charles Redman, School of Sustainability, Arizona State University).
- 2008–2011 **\$627,316** National Science Foundation, Human Systems Dynamics Program. **P.I.** HSD: Market Integration and Climate as Drivers of Change in the Mexican Maize System: Multi-scale Interactions in Livelihood and Land Use Change. Other participating institutions: University of California, Santa Barbara, US; Colegio de Mexico, Mexico; El Colegio de la Frontera Sur, Mexico.

### **Prior to Employment at ASU**

- 2006–2010 **\$586,885** Inter-American Institute for Global Change, Collaborative Research Network. **Co-P.I.** Effective Adaptation Strategies and Risk Reduction towards Economic and Climatic Shocks: Lessons from the Coffee Crisis in Mesoamerica. (P.I. Dr. Edwin Castellanos, University de Valle de Guatemala) Other participating institutions: Indiana University, US; Colegio de Frontera Sur, Mexico; Universidad Nacional de Costa Rica, Costa Rica; and Instituto Nacional de Investigaciones Forestales, Agrícolas y Pecuarias, Mexico.
- 2006–2008 **\$25,000** UC-MEXUS. Collaborative Research Grant. **P.I.** Coffee Farmers' Responses to the Impact of Hurricane Stan in Chiapas, Mexico: An Analysis of Social-Ecological Resilience. Other participating institutions: Instituto Nacional de Investigaciones Forestales, Agrícolas y Pecuarias, Mexico; El Colegio de la Frontera Sur, Mexico.
- 2006–2007 **\$3000** University of California, Santa Barbara. Academic Senate Research Grant. **P.I.** Exploring Social Resilience through an Analysis of Farmers' Responses to the Impact of Hurricane Stan on the Coffee Sector in Chiapas, Mexico.
- 2006 **\$6000** (approx.). University of California, Santa Barbara, Regent's Junior Faculty Fellowship. **P.I.** Adaptation and Resilience in Smallholder Coffee Farming: Lessons from the Coffee Crisis in Chiapas, Mexico.
- 2004–2005 **\$119,920** National Science Foundation. International Postdoctoral Research Fellowship. **P.I.** Disaster Preparedness and Response in Central Mexico: Towards an Adaptation Baseline. In collaboration with Dr. Kirsten Appendini (Colegio de México) and Dr. Victor Magaña (Center for Atmospheric Sciences, National Autonomous University of Mexico). Research conducted at the Centro de Ciencias de la Atmósfera, Universidad Nacional Autónoma de México and Colegio de México, Mexico City.
- 2002–2005 **\$210,000** Assessments of Impacts of and Adaptations to Climate Change in Multiple Regions and Sectors (AIACC), funded by the Global Environmental Facility/UNEP, START, and The Third World Academy of Sciences. **Co-P.I.** Integrated assessment of social vulnerability and adaptation to climate variability and change among farmers in Mexico and Argentina. (P.I. Dr. Carlos Gay). Other participating institutions: Universidad del Rio Cuarto, Argentina; Universidad Veracruzana, Mexico; Universidad Autonoma de Tamaulipas, Mexico.
- 2002–2003 **\$30,000** Inter-American Institute for Global Change Research. **Co-P.I.** Adapting to market shocks and climatic variability in Meso-America: The Coffee Crisis in Mexico, Guatemala, and Honduras. (P.I. Dr. Edwin Castellanos). Other participating institutions: Indiana University, U.S.; Instituto Nacional de Investigaciones Forestales, Agrícolas y Pecuarias, Mexico.

### **FELLOWSHIPS AND OTHER ACADEMIC RECOGNITION**

- 2019 **Visiting Fellow** (May) Climate Change Research Group, RMIT, Melbourne Australia.
- 2018 **2017-18 Research Excellence Award.** American Association of Geographers (AAG) Human Dimensions of Global Change (HDGC) Specialty Group.

- 2015 **Faculty Achievement in Teaching Award.** ASU Alumni Association, Arizona State University, Tempe, Arizona.
- 2008–15 **Researcher Affiliation.** Tyndall Center for Climate Change Research. University of East Anglia, UK
- 2007–09 **Kavli Fellow.** Kavli Frontiers of Science Symposia, National Academy of Sciences. Invited speaker on Sustainability Science (2007), Symposium organizing committee (2008-09).
- 2007 **ESRC/SSRC Fellowship.** (Economic and Social Research Council—UK; Social Science Research Council—US;) for three months' research at the Tyndall Center for Climate Change Research. University of East Anglia, UK.
- 2004 **Visiting Fellow.** (Nov.) Environmental Change Institute, Oxford University, England.
- 2004 **Visiting Fellow.** (Dec.) Tyndall Center for Climate Change Research, University of East Anglia, UK.
- 2000 **Student Research Stipend.** FIPSE (Fund for the Improvement of Postsecondary Education, U.S. Department of Education)/ North American Mobility Consortium.
- 1999 **Fellowship.** Foreign Language Area Studies, for Spanish language training in Guatemala.
- 1999 **Fellowship.** National Security Education Program (NSEP)-Boren.
- 1997-2001 **Graduate Research Fellowship.** National Science Foundation

## CONSULTANCIES

- 2004 Mexican Ministry of Agriculture, Rural Development and Fisheries (SAGARPA). Proyecto para la Evaluación del Programa del Fondo para Atender a la Población Afectada por Contingencias Climatológicas (FAPRACC) (Disaster response policy evaluation.) (Dr. Carlos Gay, Center for Atmospheric Sciences, UNAM, Consultancy Director).
- 2001–04 US Environmental Protection Agency and the Mexican National Institute of Ecology (INE) /Stratus Consulting, Boulder, CO, US. Project: Vulnerability and Adaptation Support for Mexico: Case Study of Water and Climate Change in Hermosillo, Mexico (Dr. Joel Smith, Stratus Consulting, Consultancy Director).

## PUBLICATIONS (\*denotes student co-author; \*\* denotes postdoc; % = contribution)

### Books (1)

2006

1. **Eakin**, H. *Weathering Risk in Rural Mexico: Climatic, Economic and Institutional Change.* Tucson, AZ: University of Arizona Press.

### Peer-Reviewed Articles (74)

h-index = 26 (Scopus), h-index = 37 (Google Scholar); 3400 citations (Scopus), 7459 citations (Google)

2019

1. Ishtiaque\*, A., **Eakin**, H., Chhetri, N., Myint, S.W., Dewan, A., and Kamruzzaman, M. (2019) Examination of coastal vulnerability framings at multiple levels of governance using spatial MCDA approach. *Ocean and Coastal Management.* 171, 66-79. (15%)
2. Sherpa\*, S.F., Shrestha, M., **Eakin**, H. and Boone, C.G. (2019) Cryospheric hazards and risk perceptions in the Sagarmatha (Mt. Everest) National Park and Buffer Zone, Nepal. *Natural Hazards* [online first] <https://doi-org.ezproxy1.lib.asu.edu/10.1007/s11069-018-3560-0>
3. Manuel-Navarrete, D., Morehart, C., Tellman\*, B., **Eakin**, H., Siqueiros-García, J.M., and Hernández Aguilar\*, B. (2019) Intentional disruption of path-dependencies in the Anthropocene: Gray versus green water infrastructure regimes in Mexico City, Mexico. *Anthropocene.* 26, 100209.

4. Baeza, A., Bojórquez-Tapia, L.A., Janssen, M., and **Eakin**, H. (2019) Operationalizing the feedback between institutional decision-making, socio-political infrastructure, and environmental risk in urban vulnerability analysis. *Journal of Environmental Management*. 241, 407-417. (10%)
5. Garcia-Gonzalez, J., **Eakin**, H. (2019) What can be: Stakeholder perspectives for a sustainable food system. *Journal of Agriculture, Food Systems, and Community Development*. [online] <https://doi.org/10.5304/jafscd.2019.084.010> (50%)

2018

6. Agusdinata, D. B., Liu\*, W., **Eakin**, H., & Romero, H. (2018). Socio-environmental impacts of lithium mineral extraction: towards a research agenda. *Environmental Research Letters*, 13(12), 123001. doi:<https://doi.org/10.1088/1748-9326/aae9b1>
7. Baeza\*\*, A., Estrada-Barón\*, A., Serrano-Candela\*, F., Bojórquez, L. A., **Eakin**, H., & Escalante, A. E. (2018). Biophysical, infrastructural and social heterogeneities explain spatial distribution of waterborne gastrointestinal disease burden in Mexico City. *Environmental Research Letters*, 13(6). (10%)
8. Brundiers, K., & **Eakin**, H. C. (2018). Leveraging Post-Disaster Windows of Opportunities for Change towards Sustainability: A Framework. *Sustainability* (2071-1050), 10(5). (20%)
9. Charli-Joseph\*, L., Siqueiros-Garcia, J. M., **Eakin**, H., Manuel-Navarrete, D., & Shelton\*, R. (2018). Promoting agency for social-ecological transformation: a transformation-lab in the Xochimilco social-ecological system. *Ecology and Society*, 23(2). doi:10.5751/ES-10214-230246 (15%)
10. Delaney, Aogán; Evans, Tom; McGreevy, John; Blekking, Jordan; Schlachter, Tyler; Korhonen-Kurki, Kaisa; Tamás, Peter A.; Crane, Todd A.; **Eakin**, Hallie, Förch, Wiebke, Jones, Lindsey, Nelson, Donald R., Oberlack, Christoph, Purdon, Mark, & Rist, Stephan. (2018). Governance of food systems across scales in times of social-ecological change: a review of indicators. *Food Security*, 10(2), 287-310. doi:10.1007/s12571-018-0770-y (5%)
11. **Eakin**, H.; Muñoz-Erickson, T. A., & Lemos, M. C. (2018). Critical Lines of Action for Vulnerability and Resilience Research and Practice: Lessons from the 2017 Hurricane Season. *Journal of Extreme Events*, 05(02n03), 1850015. doi:10.1142/s234573761850015x (70%)
12. **Eakin**, H.; Sweeney, S.; Lerner, A. M.; Appendini, K.; Perales, H.; Steigerwald, D. G., . . . Bausch, J. C. (2018). Agricultural change and resilience: Agricultural policy, climate trends and market integration in the Mexican maize system. *Anthropocene*, 23, 43-52. doi:<https://doi.org/10.1016/j.ancene.2018.08.002> (50%)
13. Lerner, A. M.; **Eakin**, H. C.; Tellman\*, E.; Bausch, J. C., & Hernández Aguilar\*, B. (2018). Governing the gaps in water governance and land-use planning in a megacity: The example of hydrological risk in Mexico City. *Cities*, 83, 61-70. doi:<https://doi.org/10.1016/j.cities.2018.06.009> (15%)
14. Marshall, N., Barnes, M. L., Birtles, A, Brown, K., Cinner, J., Curnock, M., **Eakin**, H., Goldberg, J., Gooch, M., Kittinger, J., Marshall, P., Manuel-Navarrete, D., Pelling, M., Pert P. L., Smit, B., and Tobin, R. (2018). Measuring what matters in the Great Barrier Reef. *Frontiers in Ecology and the Environment*, 16(5), 271-277. doi:10.1002/fee.1808 (5%)
15. Shelton\*, R., Baeza-Castro\*\*, A., Janssen, M. A., & **Eakin**, H. (2018). Managing household socio-hydrological risk in Mexico city: A game to communicate and validate computational modeling with stakeholders. *Journal of Environmental Management*, 227, 200-208. (10%)
16. Siqueiros-García, J. M., Lerner, A. M., **Eakin**, H., & Hernandez\*, B. (2019). A standardization process for mental model analysis in social-ecological systems. *Environmental Modelling & Software*, 112, 108-111. doi:DOI: 10.1016/j.envsoft.2018.11.016 (15%)
17. Tellman\*, B., Bausch\*, J. C., **Eakin**, H., Anderies, J. M., Mazari-Hiriart, M., Manuel-Navarrete, D., & Redman, C. L. (2018). Adaptive pathways and coupled infrastructure: seven centuries of adaptation to water risk and the production of vulnerability in Mexico City. *Ecology and Society*, 23(1). doi:10.5751/ES-09712-230101 (30%)

2017

18. Robinson\*, C.; Cloutier, S.; **Eakin**, H. (2017) Examining the business case and models for sustainable multifunctional edible landscaping enterprises in the Phoenix Metro area. *Sustainability*. 9(12): 2307 (5%)
19. **Eakin**, H.; Rueda, X.; and Mahanti\*, A. (2017) Transforming governance in telecoupled food systems. *Ecology and Society*. 22(4):32. (65%)
20. Rodriguez\*, N.; **Eakin**, H.; de Frietas Dewes, C. (2017) Perceptions of climate trends among Mexican maize farmers. *Climate Research*.72: 183-195. (45%)
21. **Eakin**, H.; Bojorquez-Tapia, L. A.; Janssen, M. A.; Georgescu, M.; Manuel-Navarrete, D.; Vivoni, E. R.; Escalante, A.E.; Baeza-Castro,\*\* A.; Mazari-Hiriart, M.; Lerner, A.M. (2017). Opinion: Urban resilience efforts must consider social and political forces. *Proceedings of the National Academy of Sciences of the United States of America*. 114(2): 186-189. doi:10.1073/pnas.1620081114 (45%)
22. **Eakin**, H., Connors\*, J., Wharton, W., Bertmann\*, F., Xiong\*, A., and Stoltzfus\*, J. (2017) Identifying attributes of food system sustainability: emerging themes and consensus. *Agriculture and Human Values*. 34 (3): 757-773. doi 10.1007/s10460-016-9754-8. (65%)

2016

23. Nelson, D.R., Lemos, M.C., **Eakin**, H., Yun-Jia, L. (2016) The limits of poverty reduction in support of climate change adaptation. *Environmental Research Letters*. 11 (9): 094011 (20%)
24. Lemos, M.C., Yun-Jia, L., Nelson, D.R., **Eakin**, H., Bedran-Martins, A.M. (2016) Linking development to climate adaptation: Leveraging generic and specific capacities to reduce vulnerability to drought in NE Brazil. *Global Environmental Change*. 39: 170-179. (25%)
25. Charli-Joseph, L\*; Escalante, AE.; **Eakin**, H; Solares, MJ; Mazari-Hiriart, M; Nation, M; Gómez-Priego, P; Domínguez Pérez-Tejada, CA.; Bojórquez-Tapia, LA. (2016) Collaborative framework for designing a sustainability science programme: lessons learned at the National Autonomous University of Mexico. *International Journal of Sustainability in Higher Education*. 17: 378-403. (20%)
26. **Eakin**, H., Lerner, A. M., Manuel-Navarrete, D., Hernández Aguilar, B. \*, Martínez-Canedo, A. \*, Tellman, B. \*, Charli-Joseph, L. \*, Fernández Álvarez, R., Bojórquez-Tapia, L. (2016) Adapting to risk and perpetuating poverty: Household's strategies for managing flood risk and water scarcity in Mexico City. *Environmental Science and Policy*. 66: 324-333. doi:http://dx.doi.org/10.1016/j.envsci.2016.06.006 (50%)

2015

27. Eriksen, S.H.; Nightingale, A.J.; **Eakin**, H. (2015) Reframing adaptation: The political nature of climate change adaptation. *Global Environmental Change*. 35: 523-533. (30%)
28. Eakin, H., Appendini, K., Sweeney, S., and Perales, H. (2015) Correlates of maize land and livelihood change among maize farming households in Mexico. *World Development*. 70: 78-91. (50%)
29. Eakin, H., York A., Aggarwal, R. M., Waters, S., Welch\*, J., Rubiños\*, C., M., Smith-Heisters, S., Bausch, J.C., and Anderies, J. M. (2015) Cognitive and institutional influences on farmers' adaptive capacity: insights into barriers and opportunities for transformative change in central Arizona. *Regional Environmental Change*. 16 (3): 801-814. doi 10.1007/s10113-015-0789-y. (50%)
30. Bausch\*, J. C., Eakin, H., Smith-Heisters\*, S., York, A. M., Rubiños\*, C., and Aggarwal, R. M. (2015) Development pathways at the agriculture-urban interface: The case of central Arizona. *Agriculture and Human Values*. 32(4): 743-759. (40%)
31. Hodbod\*\*, J., and Eakin, H. (2015) Adapting a social-ecological resilience framework for food systems. *Journal of Environmental Studies and Sciences*. 5 (3): 474-484 (50%)

32. Barnett\*, Allain J., and Eakin, Hallie C. (2015). “We and us, not I and me”: Justice, social capital, and household vulnerability in a Nova Scotia fishery. *Applied Geography*. 59: 107-116. doi:<http://doi.org/10.1016/j.apgeog.2014.11.005> (30%)

2014

33. Bausch, J.\*, Bojórquez-Tapia, L.A., **Eakin**, H. (2014) Agro-environmental sustainability assessment using multicriteria decision analysis and system analysis. *Sustainability Science*. 9: 303-319. (25%)
34. **Eakin**, H., Wightman, P., Hsu, D., Gil, V., Fuentes-Contreras, E., Cox, M., Hyman, T.A., Pacas, C., Borraz, F., González, C., Ponce de León Barido, D., Kammen, D. (2014) Information and Communication Technologies (ICTs) and Climate Change Adaptation in Latin America and the Caribbean: A Framework for Action. 7: 208-222 *Climate and Development*. 7 (3) DOI: 10.1080/17565529.2014.951021 (45%)
35. **Eakin**, H., Lemos, M.C., Nelson, D. (2014) Differentiating capacities as a means to sustainable climate change adaptation. *Global Environmental Change*. 27: 1-8. (45%)
36. Wise, R.M., Fazey, I., Stafford Smith, M., Park, S.E., **Eakin**, H.C., Archer Van Garderen, E.R.M., and Campbell, B. (2014) Reconceptualizing adaptation to climate change as part of pathways of change and response. *Global Environmental Change*. 28: 325-336. <http://dx.doi.org/10.1016/j.gloenvcha.2013.12.002> (10%)
37. **Eakin**, H., Bausch\*, J., and Sweeney, S. (2014) Agrarian Winners of Neoliberal Reform: The “maize boom” of Sinaloa, Mexico. *Journal of Agrarian Change*. 14(1): 26-51. (50%)
38. **Eakin**, H., Perales, H., Appendini, K., and Sweeney, S. (2014). Selling maize in Mexico: The persistence of peasant farming in an era of global markets. *Development and Change*. 40: 133-155. (40%)
39. **Eakin**, H., Tucker, C., Castellanos, E., Diaz-Porrás, R., Barrera, J. F., and Morales, H. (2014) Adaptation in a multi-stressor environment: perceptions and responses to climatic and economic risks by coffee growers in Mesoamerica. *Environment, Development and Sustainability*. 16(1): 123-139. (35%)
40. Lerner\*, A. M., Sweeney, S., and **Eakin**, H (2014). Growing buildings in corn fields: Urban expansion and the persistence of maize in the Toluca Metropolitan Area, Mexico. *Urban Studies*. 51 (10): 2185-2201. (20%)

2013

41. Castellanos, E.; Tucker, C.; **Eakin**, H; Morales, H.; Barrera, J. F.; and Díaz, R. (2013) Assessing the adaptation strategies of farmers facing multiple stressors: Lessons from the coffee and global changes project in Mesoamerica. *Environmental Science and Policy*. 26: 19-28. (25%)
42. Davis\*, J. and **Eakin**, H. (2013) Chiapas' delayed entry into the international labour market: a story of peasant isolation, exploitation and coercion. *Migration and Development*. 2(1): 132-149. (40%)
43. Lerner\*, A. M., **Eakin**, H., and Sweeney, S. (2013) Understanding peri-urban livelihoods through an examination of maize production in the Toluca Metropolitan Area, Mexico. *Journal of Rural Studies*. 30: 52-63. (30%)
44. Murtinho\*, F., **Eakin**, H., Lopez-Carr, D., and Hayes, T. M. (2013) Does External Funding Help Adaptation? Evidence from Community-Based Water Management in the Colombian Andes. *Environmental Management*. 52(5): 1103-1114. doi: 10.1007/s00267-013-0156-z (20%)
45. Murtinho\*, F., Tague, C., de Bievre, B., **Eakin**, H., and Lopez-Carr, D. (2013) Water Scarcity in the Andes: A Comparison of Local Perceptions and Observed Climate, Land Use and Socioeconomic Changes. *Human Ecology*. 41(5): 667-681. doi: 10.1007/s10745-013-9590-z (15%)
46. Sweeney, S.; Steigerwald, D.; Davenport\*, F.; and **Eakin**, H. (2013) Mexican maize production: Evolving organizational and spatial structures since 1980. *Applied Geography*, 39, 78-92. (10%)

2012

47. Lerner\*, A.; and **Eakin**, H. (2012) An obsolete dichotomy? Rethinking the rural-urban interface in terms of food security and production in the global south. *Geographical Journal* 177: 311-320. (45%)
48. Tompkins, E.; and **Eakin**, H. (2012) Managing private and public adaptation to climate change. *Global Environmental Change* 22 (1): 3-11. (50%)
49. **Eakin**, H.; Benessaiah\*, K.; Barrera, J. F.; Cruz-Bello, G. M.; and Morales, H. (2012) Livelihoods and landscapes at the threshold of change: disaster and resilience in a Chiapas coffee community. *Regional Environmental Change*. 12 (3): 475-488. (60%)

2011

50. Cruz-Bello, G. M.; **Eakin**, H.; Morales, H.; and Barrera, J. F. (2011) Linking multi-temporal analysis and community consultation to evaluate the response to the impact of Hurricane Stan in coffee areas of Chiapas, Mexico *Natural Hazards*. 58: 103-116. (45%)
51. Adger, W. N.; Brown, K.; Nelson, D. R.; Berkes, F.; **Eakin**, H.; Folke, C.; Galvin, K.; Gunderson, L.; Goulden, M.; O'Brien, K.; Ruitenbeek, J.; and Tompkins, E. (2011) Resilience implications of policy responses to climate change. *Wiley Interdisciplinary Reviews: Climate Change*. 2: 757-766. (10%)
52. **Eakin**, H. and Patt, A. (2011) Are adaptation studies effective, and what can enhance their practical impact? *Wiley Interdisciplinary Reviews: Climate Change*. 2: 141- 153. (65%)
53. **Eakin**, H.; Bojórquez-Tapia, L. A.; Monterde Diaz\*\*, R.; Castellanos, E. and Hagggar, J. (2011) Adaptive capacity and social-environmental change: theoretical and operational modeling of smallholder coffee systems response in Mesoamerican Pacific Rim. *Environmental Management*. 47: 352-367. (50%)
54. **Eakin**, H.; Eriksen, S.; Eikeland, P. O. and Øyen, C. F. (2011) Public sector reform and governance for adaptation: Implications of new public management for adaptive capacity in Mexico and Norway. *Environmental Management*. 47: 338-351. (40%)
55. Frank\*, E.; **Eakin**, H. and Lopez-Carr, D. (2011) Social identity, perception and motivation in adaptation to climate risk in the coffee sector of Chiapas, Mexico. *Global Environmental Change*. 21: 66-76. (40%)

2010

56. **Eakin**, H.; Lerner\*, A.; and Murtinho\*, F. (2010) Adaptive capacity in evolving peri-urban spaces: Responses to flood risk in the Upper Lerma River Valley, Mexico. *Global Environmental Change* 20: 14-22. (60%)
57. **Eakin**, H.; Lemos, M. C. (2010) Institutions and change: The challenge of building adaptive capacity in Latin America. *Global Environmental Change* 20: 1-3. (50%)
58. Tucker, C.; **Eakin**, H.; and Castellanos, E. J. (2010) Perceptions of risk and adaptation: Coffee producers, market shocks, and extreme weather in Central America and Mexico. *Global Environmental Change*. 20: 23-32. (35%)

2009

59. **Eakin**, H.; Winkels, A.; and Sendzimir, J. (2009) Nested vulnerability: Exploring cross-scale linkages and vulnerability teleconnections in Mexican and Vietnamese coffee systems. *Environmental Science and Policy*. 12 (4): 398-412. (45%)
60. **Eakin**, H. and Wehbe, M. (2009) Linking local vulnerability to system sustainability in a resilience framework: Two cases from Latin America. *Climatic Change*. 9 (3-4): 355-377. (55%)
61. Schroth, G.; Laderach, P.; Dempewolf, J.; Philpott, S.; Hagggar, J.; **Eakin**, H.; Castillejos, T.; Garcia Moreno, J.; Soto Pinto, L.; Hernandez, R.; Fitzinger, A.; Ramírez-Vllegas, J. (2009) Towards a climate change adaptation strategy for coffee communities and ecosystems in the Sierra Madre de Chiapas, Mexico. *Mitigation and Adaptation Strategies for Global Change*. 14 (7): 605-625. (10%)



62. Díaz, R.; **Eakin**, H.; Castellanos, E. and Jiménez, G. (2009) Condiciones para la adaptación de los pequeños productores de café ante presiones económicas mediante procesos de upgrading en la cadena productiva. *Revista Iberoamericana de Economía Ecológica* 10: 61-72. (30%)
63. Adger, W. Neil; **Eakin**, H. and Winkels, A. (2009) Nested and teleconnected vulnerabilities to environmental change. *Frontiers in Ecology and Environment*. 7 (3): 150-157. (40%)
- 2008
64. **Eakin**, H. and Appendini, K. (2008) Livelihood change, farming, and managing flood risk in the Lerma Valley, Mexico. *Agriculture and Human Values*. 25 (4): 555-566. (60%)
65. Hausermann\*, H. and **Eakin**, H. (2008) Producing ‘viable’ landscapes and livelihoods in Central Veracruz, Mexico: Institutional and producer responses to the coffee commodity crisis. *Journal of Latin American Geography*. 7 (1): 109-131. (40%)
66. **Eakin**, H. and Bojórquez-Tapia, L.A. (2008) Insights into the composition of household vulnerability from multicriteria decision analysis. *Global Environmental Change* 18: 112-127. (50%)
- 2007
67. **Eakin**, H.; Magaña, V.; Smith, J.; Moreno, J.L; Martínez, J.L.; Landavazo, O. (2007) A stakeholder driven process to reduce vulnerability to climate change in Hermosillo, Sonora, Mexico. *Mitigation and Adaptation Strategies for Climate Change*. 12: 935-955. (55%)
- 2006
68. Gay, C.; Estrada, F.; Conde, C.; **Eakin**, H., and Villers, L. (2006) Potential impacts of climate change on agriculture: A case of study of coffee production in Veracruz, Mexico. *Climatic Change*. 79: 259-288. (10%)
69. **Eakin**, H.; Tucker, C.; and Castellanos, E. (2006) Responding to the coffee crisis: A pilot study of farmers’ adaptations in Mexico, Guatemala and Honduras. *The Geographical Journal*. 172: 156-171. (35%)
70. **Eakin**, H. and Luers, A.L. (2006) Assessing the vulnerability of social-environmental systems. *Annual Review of Environment and Resources*. 31: 365-394. (55%)
71. **Eakin**, H. and Lemos, M.C. (2006) Adaptation and the state: Latin America and the challenge of capacity-building under globalization. *Global Environmental Change*. 16: 7-18. (50%)
- 2005
72. **Eakin**, H. (2005) Institutional change, climate risk, and rural vulnerability: Cases from central Mexico. *World Development*. 33 (11): 1923-1938.
- 2003
73. **Eakin**, H. (2003) The social vulnerability of irrigated vegetable farming households in central Puebla. *Journal of Environment and Development*. 12 (4): 414-429.
- 2002
74. **Eakin**, H. and Conley, J. (2002) Climate variability and the vulnerability of ranching in Southeastern Arizona: A pilot study. *Climate Research*. 21 (3): 271-281. (55%)
- 2000
75. **Eakin**, H. (2000) Smallholder maize production and climatic risk: A case study from Mexico. *Climatic Change*. 45 (3-4): 19-36.
- 1999
76. **Eakin**, H. (1999) Seasonal climate forecasting and the relevance of local knowledge. *Physical Geography*. 20 (6): 447-460.

## Book Chapters (23)

2019

1. Lemos, M.C., **Eakin**, H., Dilling, L., and Worl, J. (2019) Social sciences, weather and climate change. Chapter 26. *Meteorological Monographs*. American Meteorological Society.

2018

2. Bausch\*, J.C., Eakin, H., Lerner, A.M. (2018) Adaptation for whom, to what? Challenges and opportunities in agriculture-urban collaboration for climate change adaptation. In Hughes, S., Chu, E., Mason, S. (eds.) *Urban Climate Change Governance: A Global Perspective on Innovative Approaches*. (pp. 299-324). Springer.

2014

3. **Eakin**, H. (2014) Chapter 25: The ‘turn to capacity’ in vulnerability research. In Palutikof, J.P., Boulter, S.L., Barnett, J. and Rissik, D. (eds.) *Applied Studies in Climate Adaptation: Australian Experiences*. Oxford: Wiley doi: 10.1002/9781118845028.ch25
4. **Eakin**, H.; DeFries, R.; Kerr, S.; Lambin, E. F.; Liu, J. G.; Marcotullio, P. J.; Messerli, P.; Reenberg, A.; Rueda, X.; Swaffield, S. R.; Wicke, B. and Zimmerer, K. S. (2014) Significance of Telecoupling for Exploration of (Sustainable) Land Use Change. In K. C. Seto and A. Reenberg (eds.), *Rethinking global land use in an urban era* (pp. 141-162; Vol. 14). Cambridge: MIT Press.

2013

5. **Eakin**, H.; Morales, H.; Castellanos, E.; Cruz-Bello, G. M.; and Barrera, J. F. (2013) Coffee, Disasters and Social-ecological Resilience in Guatemala and Chiapas, Mexico. In S. Boulter, J. Palutikof, D. J. Karoly and D. Guitart (Eds.), *Natural Disasters and Adaptation to Climate Change* (pp. 174-180). New York: Cambridge University Press.
6. Lemos, M. C.; Agrawal, A.; **Eakin**, H.; Nelson, D. R.; Engle, N.; and Johns, O. Building adaptive capacity to climate change in less developed countries. In G. R. Asrar and J. W. Hurrell (eds.) (2013) *Climate Science for Serving Society: Research, Modeling and Prediction Priorities* (pp. 437-457). Dordrecht: Springer.
7. Wilder, M. C. L., Garfin, G., Ganster, P., **Eakin**, H., Romero-Lankao, P., Lara-Valencia, F., Cortez-Lara, A. A.; Mumme, S.; Neri, C.; Muñoz-Arriola, F.; and Varady, R. G. (2013) Climate change and U.S.-Mexico Border. In G. Garfin, A. Jardine, R. Merideth, M. Black and S. LeRoy (eds.) *Assessment of Climate change in the Southwest United States: A Report Prepared for the National Climate Assessment* (pp. 340-384). Washington DC: Island Press.

2012

8. Bojórquez-Tapia, L. A. and **Eakin**, H. (2012) Conflict and collaboration in defining the ‘desired state’: The case of Cozumel, Mexico. *Collaborative Resilience* (pp. 153-176). London: MIT Press.

2011

9. Polsky, C.; and **Eakin**, H. (2011) Global Change Vulnerability Assessments: Definitions, Challenges, and Opportunities. In Dryzek, John; Norgaard, Richard; and Schlosberg, David (eds.) *The Oxford Handbook of Climate Change* (pp 205-216). Oxford: Oxford University Press.

2010

10. **Eakin**, H. (2010) What is vulnerable? (Chapter 6) In Ingram, J., Ericksen, P., and Liverman, D. (eds) *Food Security and Global Environmental Change* (pp 78-86). London: Earthscan.
11. Misselhorn, A.; **Eakin**, H.; Devereux, S.; Drimie, S.; Msangi, S.; Simelton, E.; and Safford Smith, M. (2010) Vulnerability to what? (Chapter 7) In Ingram, J., Ericksen, P., and Liverman, D. (eds) *Food Security and Global Environmental Change* (pp. 87-114). London: Earthscan.

12. **Eakin**, H.; Bohle, H-G.; Izac, A.M; Reenberg, A.; Gregory, P.; and Pereira, L. Food, Violence and Human Rights. (2010) (Chapter 15) Food, violence and human rights. In Ingram, J., Ericksen, P., and Liverman, D. (eds.) *Food Security and Global Environmental Change* (pp. 245-271). London: Earthscan.
- 2009
13. **Eakin**, H.; Tompkins, E.; Nelson, D.; and Anderies, J. M. (2009) Hidden costs and disparate uncertainties: Trade-offs involved in approaches to climate policy. In N. Adger, I. Lorenzoni, and K. L. O'Brien (eds.) *Adapting to Climate Change: Thresholds, Values, Governance* (pp. 212-226). Cambridge: Cambridge University Press.
14. Adger, W. Neil; **Eakin**, H.; and Winkels, A. (2009) Nested and networked vulnerabilities in South East Asia. In Lebel, L.; Snidvongs, A.; Chen A., C-T.; and Daniels, R. (eds.), *Critical states: Environmental challenges to development in monsoon Southeast Asia* (pp. 411-423). Selangor, Malaysia: GB Gerkbudaya Enterprise Sdn. Bhd.
15. **Eakin**, H.; Tompkins, E. L.; Nelson, D. R.; and Anderies, J. M. (2009). Hidden costs and disparate uncertainties: trade-offs in approaches to climate policy. *Adapting to climate change: Thresholds, values, governance* (pp. 212-226). Cambridge: Cambridge University Press.
- 2008
16. Castellanos, E.; Díaz, R.; **Eakin**, H.; and Jiménez, G. (2008) Understanding the resources of small coffee growers within the global coffee chain through a livelihood analysis approach. In Tiessen, H. and Stewart, J.B (eds.), *Applying ecological knowledge to landuse decisions* (pp. 34-41). SCOPE/ Inter-American Institute for Global Change Research/ Inter-American Institute for Cooperation on Agriculture. (25%)
17. Wehbe, M.; **Eakin**, H.; Seiler, R.; Vinocur, M.; Ávila, C., Maurutto, C. and Sánchez Torres, G. (2008) Local perspectives on adaptation to climate change: Lessons from Mexico and Argentina. In Leary, N., Adejuwon, J., Barros, V., Burton, I., Kulkarni, J., and Lasco, R. (eds.) *Climate Change and Adaptation* (pp. 315-331). London: Earthscan. (45%)
18. **Eakin**, H.; Wehbe, M.; Ávila, C; Sánchez Torres, G.; and Bojórquez-Tapia, L.A. (2008) Social vulnerability of farmers in Mexico and Argentina. In Leary, N., Adejuwon, J., Barros, V., Burton, I., Kulkarni, J., and Lasco, R. (eds.), *Climate Change and Vulnerability* (pp. 257-278). London: Earthscan (45%)
19. **Eakin**, H. and Guadarrama Romero\*. X. (2008). Impactos de las inundaciones y percepción del riesgo en Emilio Portes Gil. In Appendini, K., and Torres-Mazuera, G. (eds.) *¿Ruralidad sin agricultura? Perspectivas multidiciplinarias de una realidad fragmentada* (pp. 151-168). Mexico City: El Colegio de México.
- 2005
20. **Eakin**, H. (2005) Climate change and tropical agriculture: Implications for social vulnerability and food security. In Lal, R.; Stewart, B.; and Hansen, D. (eds.), *Climate Change and Global Food Security* (pp. 293-320). Boca Raton, FL: CRC Press, LLC.
- 2004
21. Gay, C.; Estrada, F.; Conde, C. and **Eakin**, H. (2004) Impactos potenciales del cambio climático en la agricultura: Escenarios de producción de café para el 2050 en Veracruz (México). In J.C. García Cordón, C. Diego Liaño, P. Fernandez de Arróyabe Hernández, C. Garmendia Pedraja and D. Rasilla Álvarez (eds.), *El Clima entre el Mar y la Montaña* (pp. 651-660). Santander, Spain: Universidad de Cantabria and Asociación Española de Climatología.
- 2003
22. Conde, C. and **Eakin**, H. (2003) Adaptation to climatic variability and change in Tlaxcala, Mexico. In J. Smith, R. Klein, S. Huq (eds.), *Climate Change, Adaptive Capacity and Development* (pp. 241-259). London: Imperial College Press.
- 2000

23. **Eakin**, H. (2000) Political-economic uncertainty and climatic hazards: The utility of climate forecasts for small-scale farmers in Tlaxcala, Mexico. In *Proceedings of the International Forum on Climate Prediction, Agriculture and Development* (pp. 253-257). Palisades, New York: International Research Institute for Climate Prediction.

### Other Publications

2018

1. Scoones, I., Stirling, A., Arbole, D., Atela, J., Charli-Joseph, L., **Eakin**, H., Ely, A., Olsson, P., Pereira, L., Priya, R., van Zwanenberg, P., and Yang, L. (2018) *Transformations to Sustainability*. STEPS Working Paper 104, Brighton: STEPS Centre.

2017

2. Solano, A.L., Pons, D., Tucker, C., Díaz, R., Barrera, J., **Eakin**, H., and Castellanos, E. (2017) Biodiversity, sustainable certifications and climate adaptation: Lessons from shade coffee systems in Mesoamerica. *The Lima Declaration on Biodiversity and Climate Change: Contributions from Science to Policy for Sustainable Development*. CBD Technical Series No. 89. Secretariat of the, Montreal, Canada: Convention on Biological Diversity.

2016

3. Van Bers, C.; Pahl-Wostl, C.; **Eakin**, H.; Ericksen, P.; Lenaerts, L.; Förch, W.; Korhonen-Kurki, K.; Methner, N.; Jones, L.; Vasileiou, I.; Eriksen, S. (2016). Transformations in governance towards resilient food systems. Climate Change And Food Security (CCAFS) Working Paper (no. 190). Copenhagen, Denmark: CCAFS-CGIAR.
4. Aogán, D.; Evans, T.; McGreevy, J.; Blekking, J.; Schlachter, T.; Korhonen-Kurki, M. K.; Tamás, P.A.; Crane, T.; **Eakin**, H.; Förch, W.; Jones, L.; Nelson, D.R.; Obersteiner, M.; and Purdon, M. (2016). Strengthening the food systems governance evidence base. Climate Change And Food Security (CCAFS) Working paper (no. 167). Montpellier, France: CCAFS-CGIAR.

2015

5. **Eakin**, H. (2015) Handbook on Climate Change and Agriculture. Book Review. *Journal of Regional Science*. 55 (2): 11-13.
6. **Eakin**, H.; Castellanos, E.; and Haggard, J. (2015) Policy Brief: Fortaleciendo la capacidad de adaptación de los caficultores Mesoamericanos ante los cambios globales. Programa Agroambiental Mesoamericano (MAP). Costa Rica: CATIE.

2014

7. **Eakin**, H.; Aggarwal, R.; York, A.; and Smith-Heisters, S. (2014) Policy Brief: Understanding Agricultural Vulnerability in the Southwest. Decisions Center for a Desert City. Tempe: Arizona State University. <https://sustainability.asu.edu/dcdc/publications/policy-briefs/>

2013

8. Díaz, R., **Eakin**, H., Castellanos, E., and Jiménez, G. (2013). Condiciones para la adaptación de los pequeños productores de café ante presiones económicas mediante procesos de "upgrading" en la cadena productiva. *Ensayos sobre Economía Cafetera*. 28(Enero-Diciembre): 57-72.

2007

9. **Eakin**, H. (2007) Human vulnerability to global environmental change. In Cutler J. Cleveland (ed.), *Encyclopedia of Earth*. Washington, DC: Environmental Information Coalition, National Council for Science and the Environment. [http://www.eoearth.org/article/Human\\_vulnerability\\_to\\_global\\_environmental\\_change](http://www.eoearth.org/article/Human_vulnerability_to_global_environmental_change)

2006

10. Wehbe, M.; **Eakin**, H.; Seiler, R.; Vinocur, M.; Ávila, C., and Marutto, C. (2006) Local perspectives on adaptation to climate change: Lessons from Mexico and Argentina. AIACC Working Paper No. 39. <http://www.aiaccproject.org>
11. **Eakin**, H.; Wehbe, M.; Avila, C.; Sanchez Torres, G.; and Bojórquez-Tapia, L. (2006) A comparison of the social vulnerability of grain farmers in Mexico and Argentina AIACC Working Paper No. 29. <http://www.aiaccproject.org>

2005

12. **Eakin**, H.; Tucker, C. and Castellanos, E. (2005) Market shocks and climate variability: The coffee crisis in Mexico, Guatemala and Honduras. *Mountain Research and Development* 25 (4): 304-309.
13. Wehbe, M.; Seiler, R.; Vinocur, M.; **Eakin**, H.; Santos, C. and Civitaresi, M. (2005) Social methods for assessing agricultural producers' vulnerability to climate variability and change based on the notion of sustainability. AIACC Working Paper No. 19. <http://www.aiaccproject.org>
14. **Eakin**, H. and Appendini, K. (2005) Subsistence maize production and maize liberalization in Mexico. *IHDP Update* 01/2005: 4-6.

2004

15. Castellanos, E.; Conde, C.; **Eakin**, H.; and Tucker, C. (2004) Adapting to market shocks and climatic variability in Mesoamerica: The coffee crisis in Mexico, Guatemala and Honduras. *IAI Newsletter* 34: 14-16.

1998

16. **Eakin**, H. (1998) *Using Seasonal Climate Forecasts in Farm Management: A Guide for Agricultural Extension Agents*. Handbook prepared for AGRITEX, Ministry of Agriculture, Government of Zimbabwe. Funded by USAID and the National Oceanic and Atmospheric Administration.

### Articles in review or revision

1. Bojórquez-Tapia, L.A., Janssen, M., Eakin, H., Baeza, A., Serrano-Candela, F., Gómez-Priego, P., Miquelajauregui, Y. (in press). Spatially-explicit simulation of two-way coupling of complex socio-environmental systems: Socio-hydrological risk and decision making in Mexico City. *Social-Environmental Systems Modelling*. [online] <https://doi.org/10.18174/sesmo.2019a16129>
2. Magaña, A., Cavazos Pérez, M.T., Eakin, H. (in review) Impact of climate variability and climate change on maize agriculture in Michoacan, Mexico. *Atmosfera*.
3. York, A. M., Eakin, H., Smith-Heisters\*, S., Bausch\*, J. C., Aggarwal, R. M., and Anderies, J. M. (in review). Public adaptation through the backdoor: Can we move to anticipatory water governance? *Environmental Policy and Governance*.
4. Eakin, H., Shelton, R., Siqueiros, J.M., Charli-Joseph, L., and Manuel-Navarrete, D. (in review) Loss and social-ecological transformation: Pathways of change in Xochimilco, Mexico. *Ecology and Society*.

### MEDIA COVERAGE OF RESEARCH OUTPUT

2015

1. Smith-Heisters, S. & Eakin, H. (2015, March 10) [website]. Managing water for irrigated agriculture in the central Arizona desert. U.S. Climate Resilience Toolkit, Taking Action: Case Studies of Resilience in Action. Washington, DC: National Oceanic and Atmospheric Administration. <http://toolkit.climate.gov/taking-action/managing-water-irrigated-agriculture-central-arizona-desert>

2014

2. ASU News (2014, April 9). Water and agriculture in Arizona [Video file]. <http://vimeo.com/86935576>
3. ASU News (2014, April 9). Determining the sustainability of water, agriculture in Ariz. ASU News. <https://asunews.asu.edu/20140409-agriculture-in-central-arizona>

2013

4. Simons, T. (2013, September 10). Water management research for cotton farmers. Arizona Horizon. PBS Channel 8 <http://www.azpbs.org/arizonahorizon/detailvid.php?id=14573>

5. Everson, M. T. (2013, September). Cotton perspectives: The latest research and thoughts regarding one of Arizona's five C's. *Green Living*, September 2013, 8-9.  
<http://www.greenlivingaz.com/2013/09/11/cotton-perspectives/>
6. Waters, S., Pacini, N., and Mostafa, A. (2013). Assessing agricultural needs in a new era of climate information. *Arizona Water Resource*, (21) 3, 6  
<https://wrrc.arizona.edu/sites/wrrc.arizona.edu/files/AWR-Summer-07-08-2013.pdf>
7. Wuertz, G., & Levis, R. C. (2013, January). Perspectives of central Arizona farmers on water, risk, and change in agriculture. *Arizona Cotton Growers Association Newsletter*, 2-3.

2012

8. Western Farm Press. (2012, 6 November). Water availability top issue for central Arizona farmers. *Western Farm Press* <http://westernfarmpress.com/management/water-availability-top-issue-central-arizona-farmers>

## INVITED LECTURES

- 2019 “Making the invisible, visible: Decision-making, politics and the process of sustainable adaptation” Plenary talk. Colloquium speaker, Department of Geography, University of Arizona, Tucson April 12, 2019.
- “The emergence of The Emergence of Governance of Telecoupled Systems: Power and Agency in Institutional Change.” Plenary talk. Advanced Training Course 4: Governance and Justice in Telecoupling, Barcelona, March 7, 2019.
- “Sustainable adaptation in the context of the Sustainable Development Goals: The case of Mexico City.” Seminar Speaker. RMIT Urban Futures Enabling Capability Platform, Melbourne, Australia May 22, 2019.
- “How to think differently: Working with mental models, meta narratives and problem framings as points of intervention to foster more sustainable adaptation pathways” RMIT Urban Futures Enabling Capability Platform, Melbourne, Australia May 16, 2019.
- 2018 “Making the invisible, visible: Decision-making, politics and the process of sustainable adaptation” Plenary talk. Climate Adaptation 2018. NCCARF National Climate Change Adaptation Research Facility, Melbourne, Australia May 8-11, 2018.
- “The influence of socio-political infrastructure on Flooding and Water Scarcity in Mexico City.” Colloquium Speaker. Institute for Resilient Infrastructure Systems, University of Georgia. Athens, Aug 31, 2018.
- “The politics of thresholds, patterns and tradeoffs: social learning in the MEGADAPT project in Mexico City” Invited presentation. Sustainability: platforms to facilitate deliberative policy learning. Expert Workshop. Mercator Research Institute on Global Commons and Climate Change. Berlin, September 5-6, 2018.
- “Loss and social-ecological transformation: Pathways of change in Xochimilco, Mexico” Invited presentation. The Political Logic of Mediterranean Landscapes: Crafting Communities and Sustainable Futures from the Ground. University of Notre Dame/ British School of Rome/ Cambridge University. Rome, June 28-30, 2018.
- 2017 “Making the invisible, visible: Socio-political infrastructure in urban resilience” Plenary talk. New Perspectives on Sustainability and Resilience. Center for the Environment, Purdue University. March 23-24, 2017.
- “MEGADAPT: un proyecto transdisciplinario de infraestructura socio-politica y resiliencia urbana” Colloquium Speaker. Graduate Program in Sustainability Science, Universidad Nacional Autonoma de Mexico, Mexico City. February 23, 2017.
- 2016 “Mexico City's Water Challenges” Panelist, Water Climate Briefing, Decision Center for the Desert City, Arizona State University. November 30, 2016.

- “Vulnerability, adaptation, transformation” Sustainability in Science Museums Program, Arizona State University. December 6, 2017.
- 2015 “MEGADPT: Marco para la transformación del riesgo socio-hidrológico en la megalópolis” Keynote address. 1er. Coloquio Internacional Las Paradojas de la Megalópolis. El Centro de Estudios Sociales y de Opinión Pública de la Cámara de Diputados. Palacio Legislativo de San Lázaro. Mexico City, July 10, 2015.
- Panelist, Drought and Water. Legislative Agriculture Chairs Summit. State Agriculture and Rural Leaders Association. Tampa, Florida, January 3-4, 2015.
- 2014 “Hacia Preceptos de Sostenibilidad en los Sistemas Alimentarios” Seminario, Instituto de Ecología y Laboratorio Nacional de las Ciencias de Sostentabilidad. Universidad Nacional Autónoma de México, Mexico City, Feb 6, 2015.
- “Principles of Food System Sustainability” Plenary Talk, Metrics of Sustainable Diets and Food Systems Symposium, BIOVERSITY International and CIHEAM. Montpellier, France, November 4-5, 2014
- “Market integration and climate as drivers of change in the Mexican maize system.” Centro Internacional de Mejoramiento en Maíz y Trigo (CIMMYT), División Socio-económico. Texcoco, México. Oct. 15, 2014.
- “Poverty, policy and preference: The resilience of the Mexican maize system. Department Seminar Series. Centro de Investigaciones en Geografía Ambiental, Universidad Nacional Autónoma de México, Morelia, México. Sept 30, 2014.
- “Expectations of obsolescence and the adaptive capacity of irrigated agriculture in Central Arizona” Geography Department Colloquium and Rutgers Climate Institute speaker series. Rutgers University, New Brunswick, NJ, February 7.
- 2013 “Uncertainty and Change in Mexico’s Maize System” Environmental Earth System Sciences Seminar Series Speaker. Stanford University, Palo Alto, CA, Jan. 16.
- “Pathways to sustainable, adaptive development in an era of climate change” Transformation in a changing climate 2013. Oslo, Norway. June.
- 2012 Linking Socio-Environmental Knowledge to Socio-Environmental Change (Participant). Socio-Environmental Synthesis Center (SESYNC), October 10-11, Washington, DC.
- Distal Land Connections (Rapporteur) Rethinking Global Land Use in an Urban Era. Ernst Strüngmann Forum, September 23-29, Frankfurt, Germany.
- “Poverty, policy and preference: The resilience of the Mexican maize system. Colloquium lecture. Environmental Studies, University of California, Santa Cruz, Oct 29.
- “Tradeoffs and synergies in development and climate change” Keynote address. Rethinking Development in Light of Climate Change. University of California, Santa Cruz, Oct 27.
- 2010 “Synergy and friction in household vulnerability and system resilience” Plenary presentation. Global Land Project Open Science Meeting 2010. October 17-19.
- “Is Managing Market Risk Adaptive? Market and Climate Risk in the Mexican Coffee Sector” Seminar for the C-Change IGERT program at the University of Kansas. Sept.
- 2009 “Adaptive Capacity and Community Resilience.” Colloquium presentation. Department of Geography, University of Arizona, Tucson, AZ. Oct.
- 2008 “Resilient but Vulnerable? Challenges for Enhancing Adaptive Capacity in Rural Mexico.” Yi-Fu Tuan Lecture. Department of Geography, University of Wisconsin-Madison. April.
- 2007 “Resilient but Vulnerable? Challenges for Enhancing Adaptive Capacity in Rural Mexico.” Kavli Frontiers of Science Symposium, National Academy of Science. Irvine, CA. October.
- “Vulnerability, Adaptation and Institutional Change.” Tyndall Center for Climate Change Research. University of East Anglia, UK. May.

- “Adjusting to Flooding, Here and Elsewhere: Institutional Change and Adaptive Capacity in Mexico.” Oxford University Center for the Environment Colloquium. Oxford University, UK. April.
- 2006 “Vulnerabilidad y Capacidad Adaptativa de Productores en México.” El Colegio de la Frontera Sur, San Cristobal de las Casas, Chiapas, Mexico. July.
- “Livelihoods and Global Change: Case Studies of Vulnerability in Rural Mexico.” Geography Department Colloquium. San Diego State University, San Diego, CA. April.
- 2004 “Living with Uncertainty in Rural Mexico: Cases Studies in Adaptive Capacity and Vulnerability.” Tyndall Center for Climate Change Research, University of East Anglia, UK, December 2, and Department of Geography, Oxford University, Oxford, UK, November 4.
- “Vulnerabilidad y Adaptación Agrícola en México.” Seminario ENSO y el Construcción Social del Riesgo. Centro de Investigaciones y Educación Superiores en Antropología Social (CIESAS), Tlapan, Mexico, May.
- 2003 “Learning from the Local: Case Studies in Human Dimensions Research.” Human Dimensions of the Arctic System Patterns, Connections and Methods Workshop. Seattle, WA, October 25-26.
- “Social Vulnerability, Food Security and Tropical Agriculture.” Workshop on Climate Change, Carbon Dynamics and World Food Security. Columbus, OH, June 11.
- 2002 “Rural Households’ Vulnerability and Adaptation to Climatic Variability and Institutional Change: Three Cases from Central Mexico.” The International Center for Environmental and Climate Research (CICERO). Oslo, Norway, December 4.
- “Rural Responses to Institutional Change and Climate Risk in Central Mexico.” Research Seminar Series. U.S.–Mexico Studies Center, University of California San Diego, La Jolla, CA, November 26.
- 2000 “The Use and Usefulness of Climate Forecasting in Chile and Northeast Brazil.” Invited commentator, project launching workshop. Santiago, Chile, October 26 – November 4.
- “The Use of Long-lead Climate Forecasts by Small-scale Maize Producers in Tlaxcala, Mexico.” The Center for US–Mexico Studies. San Diego, CA, February.
- “Adaptación a Siniestros Climáticos: El Caso de Tlaxcala.” Foro Nacional de la Política Medio-Ambiental. Universidad Autónoma Metropolitana, Mexico City, Mexico, September 26.
- 1999 “Vulnerability and Adaptation of Tropical Agriculture to Climatic Variability.” Aspen Global Change Institute Session II: Ecological and Agricultural Consequences of Climatic Extremes and Variability. Aspen, CO, August 13-22.
- 1996 “Comments on National and Regional Institutional Capacity for the Dissemination and Interpretation of Long-lead Climate Information.” The Workshop on Reducing Climate-Related Vulnerability in Southern Africa. Victoria Falls, Zimbabwe, October 1-4.

#### **CONFERENCE PARTICIPATION** (Lead author/presenter unless stated otherwise)

- 2019 “Crisis, Transformation, and Agency: Why are People Going Back to the Land in Greece?” Presented by Benessaiah, K., co-author: Eakin, H. Annual Meeting, American Association of Geographers. Washington DC, April 7, 2019
- 2018 “An ANP-based simulation of vulnerability of two-way coupled social-ecological systems.” Presented by Bojórquez Tapia, L. A.; co-authors: Eakin, H., Janssen, M. A., & Baeza, A. Paper presented at the The International Symposium on the Analytic Hierarchy Process, July 12-15, Hong Kong.
- “Managing Household Socio-hydrological Risk in Mexico City: A Game to Communicate and Validate Computational Modeling with Stakeholders” Presented by Rebecca Shelton,



Co-authors: Baeza-Castro, A., Janssen, M., and Eakin H. ASU Urban Climate Research Center poster contest, 3 April 2018, Tempe, AZ.

- “Socio-political infrastructure and the dynamics of vulnerability in the Megacity” Presenter: Eakin, H. co-authors, Bojorquez-Tapia, L., Manuel-Navarrete, D., Janssen, M., Baeza, A., Lerner, A., Shelton, R. Annual Meeting of the Association of American Geographers, April 12, New Orleans.
- “Trends in vulnerability and adaptation research: remarks” Eakin, H. Human Dimensions of Global Change Specialty Group Awards Ceremony, Annual Meeting of the Association of American Geographers, April 13, New Orleans.
- 2017 “Managing Household Socio-hydrological Risk in Mexico City: A role-play game for stakeholder validation of an agent-based model” Presented by Rebecca Shelton, Co-authors: Baeza-Castro, A., Janssen, M., and Eakin H. ASU Institute for Social Science Research poster contest, 16 November 2017, Tempe, AZ.
- “Innovative & Immersive Session: A board game of Mexico City’s socio-hydrological system to communicate and validate an agent-based model with stakeholders” Presented by Rebecca Shelton and Hallie Eakin, Co-authors: Baeza-Castro, A. and Janssen, M. II Conference of the Programme on Ecosystem Change and Society, 7-10 November 2017, Oaxaca, MX.
- “Localized effect of hydrological risk and socio-economic drivers explains the spatial distribution of gastrointestinal disease burden in Mexico City” Presented by Baeza, A.; A. Estrada, A. E. Escalante, H. Eakin, L.A. Bojórquez co-authors. Impact of Environmental Changes on Infectious Diseases. 17-19 May 2017. Trieste Italy.
- “Robustness and vulnerability tradeoffs in urban socio-hydrological risk due to the decision-making priorities of influential actors.” Presented by Baeza, A.; Janssen M., Bojorquez L., and Eakin H. co-authors. Aug. 2017. Resilience 2017, Aug. 2017, Stockholm.
- “An Agent-based model to understand socio-hydrological vulnerability in a Megacity.” Presented by Baeza, A.; Janssen M., Bojorquez L., and Eakin H. co-authors. Complex System Conference. Sep. 2017, Cancun Mexico.
- “Promoting spaces for social-ecological transformation: The Transformation-lab in Xochimilco social-ecological system.” Presented by L. Charli-Joseph. Co-authors: Siquieros-Garcia, J.M., Eakin, H., and Manuel-Navarrete, D. Transformations 2017. Aug 29-Sept 1, 2017, Dundee, Scotland.
- “Transforming from the inside out: Gaining traction in entrenched sustainability challenges in Mexico City.” Co-Authors: Bojórquez-Tapia, L., Manuel-Navarrete, D., Baeza-Castro, A. Transformations 2017. Aug 29-Sept 1, 2017, Dundee, Scotland.
- “Robustness and vulnerability tradeoffs in urban socio-hydrological risk due to the decision-making priorities of influential actors” Presented by M. Janssen on behalf of A. Baeza-Castro. Co-authors: Janssen, M., Bojórquez, L., and **Eakin**, H. Resilience 2017. Aug 20-23, 2017, Stockholm, Sweden.
- “Promoting spaces for social-ecological transformation: The Transformation-lab in Xochimilco social-ecological system” Presented by L. Charli-Joseph. Co-authors: Siquieros-Garcia, J.M., **Eakin**, H., and Manuel-Navarrete, D. Resilience 2017. Aug 20-23, 2017, Stockholm, Sweden.
- “Informality and socio-hydrological risk in Mexico City: Perpetuating vulnerability and fostering resistance within a megacity” Presented by Lerner, A. Co-Authors: **Eakin**, H. and Hernandez, B. Resilience 2017. Aug 20-23, 2017, Stockholm, Sweden.
- “Methods and Approaches for Representing the Political Dimensions of Urban Resilience” Panel 1 and 2. Session Co-Organizer with Manuel-Navarrete, D., Lerner, A. Association of American Geographers, April 5-9, 2017, Boston, MA.

- “Making ‘soft’ sociopolitical infrastructure visible for enhancing urban risk management”  
Co-authors: Bojórquez-Tapia, LA, Janssen, M., Manuel-Navarrete, D., Baeza-Castro, A.,  
and Lerner, A.M. Association of American Geographers, April 5-9, Boston, MA.
- “Understanding urban resilience in an evolving socio-ecological system: thresholds of change  
in Xochimilco, Mexico City” Presented by Lerner, A.M. Co-Authors: Ruizpalacios, B.,  
Martinez Canedo, A., Siqueiros, J.M., Manuel-Navarrete, D., **Eakin**, H., Mazari, M.  
Association of American Geographers, April 5-9, Boston, MA.
- 2016 “Understanding the interactions between socio-hydrological risk and urban expansion at the  
megacity fringe: The example of Mexico City” Presented by Lerner, A.M. Co-authors:  
**Eakin**, H., Tellman, E., Hernández, B., Martínez, A., Bausch, C., Charli-Joseph, L.  
Society for Applied Anthropology, April, Vancouver, Canada.
- “Changing identities of socio-hydrological systems in Xochimilco, Mexico City.” Presented  
by Manuel-Navarrete, D., Co-authors: Bojórquez-Tapia, L., Charli-Joseph, L., **Eakin**, H.,  
Hernández-Aguilar, B., Martínez-Canedo, A., Siqueiros-García, J.M. Society for  
Economic Anthropology, April 14-16, Athens, GA.
- “Socio-hydrological risk transfer and vulnerability: an agent-based modeling approach  
inspired by the Basin of Mexico” Presented by Tellman, B. Co-authors: **Eakin**, H., Baez-  
Castro, A., Janssen, M., Bojórquez-Tapia, L.A. Association of American Geographers,  
March 29-April 2, San Francisco, CA.
- “Vulnerability assessment in megalopolis: ANP-MAS modeling approach for Mexico City”  
Presented by Bojórquez-Tapia, LA. Co-authors: **Eakin**, H., Janssen, M., and Baeza-  
Castro, A. International Symposium on the Analytic Hierarchy Process, August 4-7,  
London, UK.
- “Biophysical and socio-economic determinants of gastrointestinal diseases in Mexico City: a  
spatially explicit analysis” Presented by Baeza, A. Co-authors: Argote, E., **Eakin**, H.,  
Bojórquez-Tapia, L.A., Escalante, A. International Society on Urban Health and the  
American Association of Geographers Joint Symposium. April 1-4, San Francisco, CA.
- 2015 “Governance challenges in telecoupled food systems.” Co-authors: Mahanti, A. and Rueda,  
X. Conference on Complex Systems, October 1, Tempe, AZ.
- “Governance challenges in telecoupled food systems.” Co-authors: Mahanti, A. and Rueda,  
X. American Geophysical Union, December 14, San Francisco, CA.
- 2014 “Agency, institutions and development trajectories: Transforming irrigated agriculture in the  
urbanizing SW United States.” Resilience and Development: Mobilizing for  
Transformation. May 4-8, Montpellier, France.
- 2013 “Pathways to sustainability at the agriculture-urban interface: The case of central Arizona.”  
Presented by Bausch, J. C. co-authors: **Eakin**, H., Rubiños, C., York, A., Smith-Heisters,  
S., Aggarwal, R. M. Association of American Geographers Annual Meeting, April 9-13,  
Los Angeles, CA.
- “Water and agriculture in central Arizona: Adapting to new scenarios.” Presented by  
Rubiños, C. Co-authors: York, A., **Eakin**, H., Aggarwal, R. M., Bausch, J. C., Smith-  
Heisters, S., Waters, S., and Anderies, J. M. Poster Presented at Water Resources  
Research Center 2013 Annual Conference, University of Arizona. March 5, Tucson, AZ.
- “Farmers’ resilience to socio-ecological change in central Arizona.” Presented by Bausch, J.  
C., Co-authors: Rubiños, C., **Eakin**, H., York, A. M., and Aggarwal, R. M. Poster. 2013  
AAAS Annual Meeting: The Beauty and Benefits of Science. February 14-18, Boston,  
MA.
- “Pathways to sustainable, adaptive development in an era of climate change.” Co-authors:  
Lemos, M.C., Nelson, D. Transformation in a Changing Climate, June 19-21, Oslo,  
Norway.
- 2012 “Half full? Buffering central Arizona farmers from signals of environmental change.”  
Presented by Bausch, J. C. and Connors, J. P., Co-author: **Eakin**, H. Poster. 2012 AAAS

Annual Meeting: Flattening the World: Building a Global Knowledge Society, February 16-20, Vancouver, BC, Canada.

- “Agriculture around a desert city: Perspectives on decisions for water, land and livelihood.” Presented by: Bausch, J. C. Co-authors: Connors, J. P., Rubiños, C., **Eakin**, H., Aggarwal, R. M., York, A. M. Poster. CAP LTER 14th Annual Poster Symposium and All Scientist Meeting, Arizona State University, Tempe, AZ.
- “Irrigated agriculture, water institutions and adaptation in urbanizing Arizona.” co-authors: Smith-Heisters, S., York, A., Bausch, J.C., Aggarwal, R., Rubiños, C., Paul, H. and Waters, S. Adaptation Futures, University of Arizona, May 29, Tucson, AZ.
- 2011 “Poverty, policy and preferences: the persistence and future of maize in Mexico” Rethinking Development. Cornell University, November 10, Ithaca, NY.
- “Between rigidity and lock-in traps: Adaptability and the future of maize in Mexico” Co-authors: Perales, H. and Appendini, K. Resilience 2011. March 11-16, Tempe, AZ.
- “Adaptation with a long-view: Promoting resilience in response to environmental and developmental challenges” Presented by Don Nelson, Co-author: **Eakin**, H. Resilience 2011. March 11-16, Tempe, AZ.
- “Uncertainty, scale and space in privately provided public climate change adaptation” Co-author: Emma Tompkins. Resilience 2011. March 11-16, Tempe, AZ.
- 2010 “Shifting geographies of food security: The rise of irrigated maize in Sinaloa, Mexico.” Presented by Julia C. Bausch\* Co-author **Eakin**, H, and Sweeney, S. Global Land Project Open Science Meeting 2010. October 17-19, Tempe, AZ.
- “Adaptation with a long-view: Promoting resilience in response to environmental and development challenges” Presented by Don Nelson. Co-author: **Eakin**, H. Second International Conference on Climate, Sustainability and Development in Semi-arid Regions. Aug. 15-19, Fortaleza, Brazil.
- “Adapting with a Long View: The Future of Maize in Mexico” Second International Conference on Climate, Sustainability and Development in Semi-arid Regions. Aug. 15-19, Fortaleza, Brazil.
- “Perception of Risk and Opportunities for Adaptation in the Coffee Sector of Chiapas, Mexico.” Annual Meetings of the American Association of Geographers. April 14-18, Washington, DC.
- Economic Geography and Climate Change: Crossroads for Theory and Practice. Annual Meetings of the American Association of Geographers. Panelist. April 14-18, Washington, DC.
- Climate Adaptation, Landscapes, and Institutions (CALI). Annual Meetings of the American Association of Geographers Discussant. April 14-18, Washington, DC.
- The new rurality of Mexico: Institutions, adaptations, and livelihoods. Annual Meetings of the American Association of Geographers Discussant. April 14-18, Washington, DC.
- 2009 “Drivers of Change and Autonomous Adaptations in the Mesoamerican Coffee Sector: Potential Avenues for Policy Intervention.” Presented by Edwin Castellanos on Hallie Eakin’s behalf. International Human Dimensions Programme Open Meetings, April 26-30, 2009, Bonn, Germany.
- “New Public Management, Governance and Limits to Adaptation in Mexico and Norway.” Presented made by Siri Eriksen on Hallie Eakin’s behalf. International Human Dimensions Programme Open Meetings, April 26-30, Bonn, Germany.
- “Cross-Spatial and Inter-Temporal Linkages in Coffee Livelihoods and Landscapes.” Presentation made by Jan Sendzimir on Hallie Eakin’s behalf. International Human Dimensions Programme Open Meetings, April 26-30 2009, Bonn, Germany.

- 2008 "Delivering Resilient Development-friendly Climate Change Adaptations." Panelist with Emma Tompkins, Henny Oshbar, and Polly Eriksen. Resilience 2008. Stockholm, Sweden.
- "Linking Local Vulnerability to System Sustainability in a Resilience Framework: A Case Study from Argentina." Co-authors: Monica Wehbe and Ernesto Viglizzio. Resilience 2008, April, Stockholm, Sweden.
- "New Public Management and Capacity for Adaptation to Flood Risk." Resilience 2008. April, Stockholm, Sweden.
- "Nested Vulnerability: Cross-scale Linkages and Tele-connections in Mexican and Vietnamese Coffee Systems." Co-authors: Alexandra Winkels and Jan Sendizimir. Global Environmental Change and Food Security, Oxford University, April, Oxford, UK.
- "Flood Risk, Water Governance and Livelihoods in the Rural-Urban Interface: A Case Study of Adaptive Capacity in Central Mexico." Co-authors: Amy Lerner and Felipe Murtinho. Annual Meetings of the Association of American Geographers, April 15-19, Boston, MA.
- 2006 "Institutional capacity and flooding in the Upper Lerma Valley, Mexico." Annual Meeting of the Association of American Geographers. March 3-11, Chicago, IL.
- 2005 "Globalization and the Adaptive Capacity of Nation-States: New Challenges and Opportunities." Co-author: Maria-Carmen Lemos. Human Security and Climate Change, GECHS Conference. June 21-23, Oslo, Norway.
- "The 1990's Macroeconomic Reforms and Agriculture Policies in Developing Countries: Impacts on Social Climate Vulnerability of Traditional Agriculture Producers." Co-authors: Monica Wehbe and Ana Graymonat. Human Security and Climate Change, GECHS Conference. June 21-23, Oslo, Norway.
- "Social Vulnerability and Key Resources for Adaptation: Agricultural Producers in Mexico and Argentina." Co-author: Monica Wehbe, University of Rio Cuarto. AIACC Synthesis Conference on Vulnerability to Climate Change in the Developing World, March 7- 14, Bellagio, Italy.
- 2004 "Assessing the Adaptive Capacity of Farmers in Mexico and Argentina." Co-author: Monica Wehbe, University of Rio Cuarto. AIACC Latin America and Caribbean Regional Workshop, August 24-27, Buenos Aires, Argentina.
- "Stakeholder Interaction on Issues of Climate Variability: Illustrations from Córdoba Province, Argentina and Coatepec, Veracruz. Co-author: Monica Wehbe, University of Rio Cuarto. AIACC Latin America and Caribbean Regional Workshop, August 24-27, Buenos Aires, Argentina.
- "Waiting to Recover: Risk Perception and (Mal-) Adaptation in Two Mexican Coffee Communities." Centennial Meeting of the Association of American Geographers, March 14-19, Philadelphia, PA.
- 2003 "Does Climate Risk Matter? Agricultural Adaptation in a 'Multi-Stressor' Context." International Young Scientists Global Change Conference Trieste, Italy, November 16-20, and at the Regional Geomorphology Conference Geomorphic Hazards: Towards the Prevention of Disasters, October 27-31, Mexico City.
- "Social Methods for Assessing Agricultural Producers' Vulnerability to Climate Change based on the Notion of Sustainability." Co-author: Monica Wehbe, University of Rio Cuarto. Open Meetings of the International Human Dimensions Program, October 16-18, Montreal, Canada.
- "Human Dimensions Ten Years Hence: Geographic Challenges for the Next Generation." (panelist) Annual Meetings of the Association of American Geographers, March 5-8, New Orleans, LA.
- "Neoliberalism and Rural Mexico." (panelist) Annual Meetings of the Association of American Geographers, March 5-8, New Orleans, LA.

- 2002 "Getting It Together to Go On: Mexican Farm Household Responses to Political Economic Change and Climatic Variability." Annual Meetings of the Association of American Geographers, March 17-23, Los Angeles, CA.
- 2001 "Crop Choice as Adaptation to Climate Risk in Central Mexico." Open Meeting of the Global Environmental Change Research Community, October 6-8, Rio de Janeiro, Brazil.
- "Mexican Farmers' Vulnerability in Face of Economic and Climatic Uncertainty." American Society for Public Administration, Rutgers University, March 10-13, Newark, NJ.
- 1999 "ENSO Forecasts and Mexican Agriculture: The Relevance of Local Knowledge." Annual Meetings of the Association of American Geographers, March Honolulu, HI.
- 1998 "Vulnerability and Adaptation of Small Scale Maize Producers to Climatic Variability in Tlaxcala, Mexico." Meeting of the Latin American Studies Association, September 27, Chicago, IL.
- "Vulnerability and Adaptation of Small Scale Maize Producers to Climatic Variability in Tlaxcala, Mexico." Annual Meetings of the Association of American Geographers, March 28, Boston, MA.
- "Adapting to Climatic Risk: Can Smallholders in Tlaxcala, Mexico, Benefit from Climate Prediction?" Western Geography Graduate Conference, February 14, San Diego, CA.

## TEACHING

### Courses Taught

ASU Adaptation, Resilience and Transformation (SOS 591), Food System Sustainability (SOS 526), The Agriculture-Urban Interface (SOS 594, SOS 498, BIO 594), Global Intensive Engagement: Coffee and Climate Change (SOS 498), Special Topics 598: Proposal Preparation (SOS 598), Sustainable Food and Farms (SOS 327), Sustainable Food and Farms (ASU Online), Special Topics 598: Research design, proposal writing, and community engagement in sustainability research (SOS 598), Sustainable World (SOS 110), Co-taught with Dan Childers.

UCSB Society and Hazards (GEOG 145), Food Security, Food Systems and Global Change (GEOG 288) Co-taught with David Carr, Climate, Carbon and Society (GEOG 288) Co-taught with Christopher Still, World Regions (GEOG 2), Introduction to Geographic Research (GEOG 200A), Human Dimensions of Global Environmental Change (GEOG 288)

### Doctoral dissertations directed and supported (\*thesis committee co-chaired)

- ASU Directed, completed (4): Beth Tellman\* *Mapping and Modeling Illicit and Clandestine Drivers of Land Use Change: Urban Expansion in Mexico City and Deforestation in Central America*, Defended April 2019. Asif Ishtiaque\* *Multilevel governance of climate change adaptation in coastal areas*, Defended April 2019. Julia Chrissie Bausch, *Urban Rural Development: Food production, neoliberalism, and sustainability in Mexico City*. Defended April 2017. Katja Brundiers, *Disasters and sustainability transitions*. Defended October 2016.
- Directed, in process (3): Jagadish Parajuli,\* *Governance of Farmer Managed Irrigation Systems in Nepal under Climate Change*; Rebecca Shelton, *Sense of place and barriers to economic transitions*; Yamini Yogya (title TBD).
- Supported, as dissertation committee member (8 completed, 3 in progress).
- UNAM Directed, in process (1) Lakshmi Charli-Joseph, *Promoting transformative pathways to sustainability: The Transformation-lab in the Xochimilco social-ecological system*.
- UCSB Directed, completed (2): Amy Lerner, *Landscapes and Livelihoods on the Urban Fringe: Implications for Food Production in Central Mexico*. Co-direction with Stuart Sweeney. Defended 2011. Felipe Murtinho, *Adaptation in Watershed Management among Andean Rural Communities*. Co-direction with David Carr. Defended 2011.
- Supported, as dissertation committee member (2 completed)

### Master's theses directed (\*thesis committee co-chaired)

- ASU Directed, completed (10): Natalia Rodriguez, *Determinants of climate risk perception among smallholder maize farmers in Mexico*. Defended April 2015. Anna Krithis, *Public Markets Role in Enhancing Resilience, Adaptation and Transformability of Urban Socio-Ecological Food Systems*. Defended May 2014. Cathy Rubiños, *Institutional Analysis of Water Management for Agriculture in the Chancay-Lambayeque Basin, Peru*. Defended August 2013. Kathleen Talbot, *Urban food access interventions in a community context: A case study of Canyon Corridor, Phoenix Arizona*. Defended May 2012. Briar Schoon, *Youth perspectives on the current and future sustainable state of Canyon Corridor's food environment*. Defended May 2012. Julia Bausch, *Environmental Sustainability of Maize Production in Sinaloa, Mexico*. Defended 2011. Emily Freeman\*, *Sustainability in the Restaurant Industry*. Defended 2011. Haley Paul\* *Agricultural Water Use and the Groundwater Management Act: Balancing Institutional Trade-offs to Research Sustainability*. Defended 2010. Bernardo Marquez,\* *Planning for Climate Change: Vulnerability and Adaptation in the US-Mexico Border*. Defended 2010. Carissa Taylor,\* *Local Food in the Phoenix Metropolitan Area: Perceptions and Heterogeneity of Local Food System Stakeholders*. Defended 2009.
- Supported, as committee member (7 completed).
- UCSB Directed, completed (1) Elisa Frank, *Social Identity, Perception and Motivation in Adaptation to Climate Risk in the Coffee Sector of Chiapas, Mexico*. Defended 2009.
- COLEF Co-directed, completed (1) Ana Lilia Magaña\*, *Impact of climate variability and climate change on the maize sector, Michoacán, Mexico*. Colegio de la Frontera Norte, Mexico. Defended 2014.

### Undergraduate Thesis Direction

- ASU Directed, Completed (4)  
Supported, Completed (4)

### PROFESSIONAL ACTIVITIES AND SERVICE

- 2018-19 **National Academy of Sciences, Board Review Committee**, Board on Environmental Change and Society
- 2018 **Mentor**, National Academy of Sciences, Gulf Research Program, Networking and Idea Development Workshop, Mobile, Alabama (May 30-June 1)
- 2017- **Scientific Advisory Committee** Innovative Training Network: COUPLED. Operationalising telecouplings for solving sustainability challenges related to land. J. Neilson, Coordinator, Humbolt University, Berlin. European Union Horizon 2020 Project.
- 2015- **Board member**. Board of Environmental Change and Society, National Academies of Sciences.
- 2015- **Scientific Advisory Committee** KLIMA2050 Project, Coordinated by SINTEF in Trondheim, Norway (<http://www.klima2050.no/>)
- 2015-16 **Arizona State University Team Leadership Academy** participant on “Food Security” team.
- 2014-16 **Working group participation**. Governance and Institutions, Climate Change, Agriculture and Food Security Program (CCAFS). CGIAR.
- 2011-14 **Contributing author**. IPCC Fifth Assessment Report. North America Chapter.  
**Contributing author**. National Climate Assessment. US-Mexico Border Chapter.  
**Invited participant**. National Climate Assessment Workshop on Vulnerability Assessment. Atlanta, January 2011.
- 2010 **Invited participant**. Adaptation and Resilience. Workshop of the Resilience Alliance and Tyndall Center for Climate Change Research. Southwold, UK. February, 2010.

- 2009 **Organizing committee.** Kavli Frontiers of Science Symposium, National Academy of Sciences. Session organizer for Our Hot and Uncertain Future: Is Adaptation to Climate Change Possible? Kavli Frontiers of Science Symposium, National Academy of Sciences. Irvine, CA, November 12-14.
- 2008 **Organizing committee.** Kavli Frontiers of Science Symposium, National Academy of Sciences. Session organizer. Biofuels and Food for the Kavli Frontiers of Science Symposium, National Academy of Sciences. Irvine, CA, November 6-8.
- 2008-10 **Scientific Advisory Committee.** Global Environmental Change and Food Systems (GECAFS). International Geosphere-Biosphere Programme / International Human Dimensions Programme on Global Environmental Change/ World Climate Research Programme.
- 2007 **Invited participant.** Adaptive Capacity and Resilience. Workshop of the Resilience Alliance. Blakeney, UK. April.
- 2007 **Invited participant.** Workshop on Future Priorities for the U.S. Climate Change Science Program. Committee on Strategic Advice on the U.S. Climate Science Program, National Academy of Sciences. Washington, DC, October 15-17.
- 2007 **Foreign Scholar Participant.** Potentials of and Limits to Adaptation in Norway Project. PI: Dr. Karen O'Brien. Oslo University, Oslo, Norway. April 2007.
- 2006-09 **Program Associate.** Global Environmental Change and Human Security (GECHS).
- 2004-06 **Board member.** Human Dimensions of Global Change Specialty Group, Association of American Geographers.

## UNIVERSITY SERVICE:

- 2016- Urban Climate Research Center Leadership Team; Social Engagement Philosophies Working Group; Personnel Committee; Neely Foundation Grant Committee; Promotion and Tenure; Food Systems Transformation Initiative Steering Committee, Undergraduate Standards Committee
- 2015-16 Neely Foundation Grant committee; Food System Certificate Committee; Personnel Committee; TEAM Leadership Academy, Food Security
- 2013-14 Food System Certificate Committee; Promotion and Tenure Committee
- 2012-13 Graduate curriculum Committee; Neely Foundation Grant Committee; Food System Certificate Committee; Promotion and Tenure Committee; Chair, Graduate Curriculum Revision Committee
- 2011-12 Co-Chair, Global Institute of Sustainability Working Group on Sustainable Development; Promotion and Tenure sub-committee; School of Sustainability Search Sommittee
- 2010-12 Graduate Committee Chair
- 2009-10 Masters in International Development Committee; Sustainability Minor Committee.
- 2008-09 Graduate Committee, member
- 2007-08 [UCSB] Sustainability Committee, Diversity Committee, Graduate Admissions Committee, Outreach Committee; Faculty Search Committees; Support for graduate students involved in Women in Science and Engineering (WISE).

## EDITORIAL AND REVIEW ACTIVITIES

### Editorial Boards

*Climate and Development* (2009-present)

*Environmental Research Letters, Review* (as of 2015-present)

*Global Environmental Change* (as of mid-2010-2015)

### Manuscript Reviewer for Journals and Presses (selected)

*Environmental Research Letters, World Development, Agriculture and Human Values, the Annals of the Association of American Geographers, Nature Climate Change, Climate and Development, Regional Environmental Change, Ecology and Society, Human Ecology, Land, Canadian Journal of Development, Climatic Change, Economic Geography, Environmental Policy, Environmental Science and Policy, Geoforum, The Geographical Journal, Global Environmental Change, International Journal of Climate, Landscape Research, Natural Hazards, Natural Resources Forum, Oxford University Press, Sustainability, Sustainability Science, Society and Natural Resources.*

**Proposal reviewer (selected)**

National Science Foundation (Social, Behavioral and Economic Sciences; Sustainability Research Networks, SEES); National Geographic; National Oceanic and Atmospheric Administration (NOAA) Climate Program Office; National Aeronautics and Space Administration (NASA): Land Use/ Land Cover Change.