

Heather M. Yocum
Curriculum vitae
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EDUCATION

- 2013 PhD, Anthropology, Michigan State University, East Lansing, MI
Specializations in Gender, Justice, and Environmental Change; International
Development
- 2009 MA, Anthropology, Michigan State University, East Lansing, MI
- 2005 BA, International Studies and French, University of Denver, Denver, CO

PROFESSIONAL EXPERIENCE & APPOINTMENTS

- 2016-present Research Scientist I, Cooperative Institute for Research in Environmental Sciences
(CIRES), University of Colorado-Boulder and the National Oceanic Atmospheric
Administration (NOAA), Boulder, CO
- 2014-2016 Postdoctoral Research Associate, Cooperative Institute for Research in
Environmental Sciences (CIRES), University of Colorado-Boulder and the National
Oceanic Atmospheric Administration (NOAA), Boulder, CO
- 2012 Technical Editor (consultant), Malawi Project Proposal for Verified Carbon
Standard and Climate, Community and Biodiversity Alliance (VCS+CCB), Terra
Global Capital, LLC, San Francisco, CA
- 2008-2010 Managing Editor, *Gendered Perspectives on International Development Resource Bulletin*
(formerly *WID Bulletin*), Center for Gender in Global Context, Michigan State
University, East Lansing, MI

PUBLICATIONS AND TECHNICAL REPORTS

Peer-reviewed Articles and Book Chapters

Yocum, H.M. and A.J. Ray. 2019. Climate information to support wildlife management in the
North Central United States. *Regional Environmental Change*, 19 (4): 1187-1199, DOI:
10.1007/s10113-019-01474-y

Yocum, H.M., D. Metivier, and A.J. Ray. *In preparation*. Assessing institutional readiness to use
climate change information in State Wildlife Action Plans. For submission to *Weather, Climate, and
Society*

Yocum, H.M. 2016. 'It *Becomes* Scientific': Carbon Accounting for REDD+ in Malawi. *Human Ecology* 44(6): 677-685. doi:10.1007/s10745-016-9869-y

Isenhour, C., J. O'Reilly, and **H.M. Yocum**. 2016. Accounting for Climate Change: Measurement, Management, Morality and Mysticism (Special Section Introduction). *Human Ecology* 44(6): 647-654. doi: 10.1007/s10745-016-9866-1

Yocum, H.M. 2016. Potential Equity Concerns in REDD+ Planning and Implementation: A Case Study from Malawi. In *The Carbon Fix: Global Equity and the New Environmental Regime*. Shirley Fiske and Stephanie Paladino, eds. New York: Routledge. Pp 238-253. ISBN: 978-1611323337

Non-refereed Publications, Reports, and Proceedings

M.T. Hobbins, C.F. Dewes, J.L. Huntington, D.J. McEvoy, I. Rangwala, S. Shukla, and **H.M. Yocum**. 2019. Evaporative Demand: Dynamics and Opportunities in Drought Early Warning, Monitoring, and Vulnerability Assessment. In Latimer, James S.; Trettin, Carl C.; Bosch, David D.; Lane, Charles R., eds. 2019. Working watersheds and coastal systems: research and management for a changing future—Proceedings of the Sixth Interagency Conference on Research in the Watersheds. July 23-26, 2018, Shepherdstown, WV. e-Gen. Tech. Rep. SRS-243. Asheville, NC: U.S. Department of Agriculture Forest Service, Southern Research Station. 211 p. Doi: <https://doi.org/10.2737/SRS-GTR-243>

Yocum, H.M., J. Lukas, and U. Rick. 2018. Spring 2018 MODIS-based spatial SWE product for the Intermountain West region: Feedback from beta testers. Western Water Assessment, Cooperative Institute for Research in Environmental Sciences, University of Colorado Boulder. https://wwa.colorado.edu/publications/reports/MODIS_based_SWE_product.pdf

Hobbins MT, Dewes CF, Huntington JL, McEvoy DJ, Rangwala I, Shukla S, and **Yocum HM** (2018), Evaporative demand: dynamics and opportunities in drought early warning, monitoring, and vulnerability assessment. Extended abstract in: Proceedings of the Sixth Interagency Conference on Research in the Watersheds, Shepherdstown, WV, July 23-26 (in press).

Yocum, H.M. 2017. Land and Wildlife Managers' use of Climate Information in the Prairie Potholes Region. North Central Climate Science Center Adaptation Working Group Webinar. Available at: <http://nccsc.colostate.edu/event/4-11-2017/adaptation-working-group-webinar>

Yocum, H.M. and A.J. Ray. 2017. Climate information needs in the Prairie Potholes Region: Information needs, barriers to use, and opportunities to support regional- and state-level conservation and adaptation. Available at: <https://www.esrl.noaa.gov/psd/people/heather.yocum/Yocum&Ray--Climate%20Information%20Needs%20in%20the%20PPR.pdf>

A.J. Ray, M. Stokes, **H. Yocum**, A. Nielson, C. Goodman, R.K. Hartman, J.A. Intermill III, M.C. Kruk, R.Vose, D.Miskus. 2017. National Water Resources Monitoring and Outlook: A New National Scale Product for Timely Water Intelligence. American Meteorological Society. <https://ams.confex.com/ams/97Annual/webprogram/Paper314921.html>

WRMO Steering Committee. 2016. Water Resources Monitor and Outlook: Improving Delivery of

Water Resource Information. NOAA PSD 2-pager document.
https://www.cbrfc.noaa.gov/wrm/map/WRMO_Final_15Sept16.pdf

Contributor. 2014. Malawi Project Proposal for Verified Carbon Standard and Climate, Community and Biodiversity Alliance (VCS+CCB). Terra Global Capital, LLC

Edited Volumes

Yocum, H.M. and Cynthia Isenhour, eds. 2016. Accounting for Climate Change, special issue of *Human Ecology* 44(6)

FELLOWSHIPS AND GRANTS

- 2019 *Submitted.* Synthesis of climate impacts, stakeholder needs, and adaptation in Northern Great Plains grassland ecosystems (USGS North Central Climate Adaptation Science Center) (**PI Yocum**; \$300K; two years)
- 2019 Identifying and quantifying triggers, time scales, and tools to support management of different drought types in the Northeastern US (NOAA CPO SARP) (PIs McEvoy, Rangwala; \$199,090; 2019-2020)
- 2019 Evaluating the socioeconomic impact of improved river forecasts in the Upper Colorado River Basin, NASA ROSES (Sub-award thru RTI) (**PI Yocum**; \$150K; 1.5 years)
- 2018 CU Boulder NC CASC: Driving innovation in co-producing science to help resource managers in the North Central region adapt to a changing world (PI Jennifer Balch, **Stakeholder Engagement Lead Yocum**; \$4.5 million; 5 years)
- 2016-2019 Operationalizing an Evaporative Demand Drought Index (EDDI) service for drought monitoring and early warning. Joint Technology Transfer Initiative, National Oceanic and Atmospheric Administration (NOAA) (PI Hobbins, **Co-PI Yocum**; \$891K; 3 years)
- 2016-2017 A NIDIS Water Resource Monitor and Outlook: Stakeholder engagement and enhanced drought and water supply information for water managers. National Integrated Drought Information Service (NIDIS), NOAA (PIs Stokes and Ray, **Co-PI Yocum**; \$269K; 2 years)
- 2011-2012 Fulbright IIE U.S. Student Fellow in Anthropology (dissertation field research fellowship), Fulbright International Institute for Education (IIE), Malawi (**PI Yocum**)
- 2011 Gender, Justice and Environmental Change Doctoral Dissertation Research Award (to support field research in Malawi), Center for Gender in Global Context, Michigan State University (**PI Yocum**)

- 2009 International Studies and Programs Pre-dissertation Travel Award (to support field research in Malawi), Michigan State University (**PI Yocum**)
- 2008-2010 Title VI Foreign Language and Area Studies—Academic Year Fellowship – Chichewa, Center for Advanced Study in International Development and Center for Gender in Global Context, Michigan State University
- 2007-2013 University Distinguished Graduate Fellowship, Michigan State University

FIELD RESEARCH AND EXPERIENCE

- 2019-present PI, Evaluating the socioeconomic impact of improved river forecasts in the Upper Colorado River Basin, NASA ROSES with RTI (contact: Lisa Dilling, lisa.dilling@colorado.edu)
- 2019 Meeting Organizer/coordinator, USDA Northern Climate Hub and USGS North Central Climate Adaptation Science Center Joint Stakeholder Committee Meeting, Summer 2019
- 2018-present Stakeholder engagement and communication lead, North Central Climate Science CenterS, University of Colorado, Boulder, CO (contact: Jennifer Balch, Jennifer.balch@colorado.edu)
- 2017 Co-organizer and co-facilitator for the NIDIS Intermountain West Drought Early Warning System (IMW DEWS) key stakeholder meeting, June 2017 in Boulder, CO (contact: Jeff Lukas, jeff.lukas@colorado.edu)
- 2016-present Lead social scientist, use and usability specialist, Evaporative Demand Drought Index (EDDI) Joint Technical Transfer Initiative (contact: Mike Hobbins, mike.hobbins@noaa.gov)
- 2016-2017 Lead social scientist, Water Resources Monitor and Outlook (WRMO) (contact: Andrea Ray, andrea.ray@noaa.gov)
- 2014-2016 Lead social scientist, NSF project #1243270: “Linking Near Term and Future Changes in Weather and Hydroclimate in Western North America to Adaptation for Ecosystem and Water Management.” (PIs B Rajagopalan, CU-Boulder; R Seager, Lamont-Doherty Earth Observatory, Columbia)

Fieldwork

- 2014-2018 Embedded social scientist with the Physical Sciences Division, Earth System Research Lab, National Oceanic and Atmospheric Administration, Boulder, CO

- 2014 North-Central Great Plains and the Intermountain West, USA (2 months)
- 2009, 2011-12 Malawi (13 months)
- 2004 Meru, Kenya and Western Cape, South Africa (5 months)

CONFERENCE PAPERS AND PRESENTATIONS (SELECTED)

Webinars

- 2017 Yocum, H.M. "Land and Wildlife Managers' use of Climate Information in the Prairie Potholes Region." Adaptation Working Group Webinar. Available at: <http://nccsc.colostate.edu/event/4-11-2017/adaptation-working-group-webinar>

National and International Conferences

- 2020 Yocum, H.M., D. Peck, W. Kelley, M. Reeves, and A. Boag. Rangelands & Climate Change: What Can We Learn from Each Other about Impacts & Adaptations? Society for Rangeland Management, Denver, CO, February 19-22, 2020
- 2019 Yocum, H.M., D. Metivier, and A.J. Ray. Assessing organizational factors that facilitate the use climate change information in State Wildlife Action Plans. The North Dakota Chapter of the Wildlife Society Meeting, Bismarck, ND, February 13-15, 2019
- 2019 Yocum, H.M. and A.J. Ray. Using Stakeholder Engagement and Social Science to Generate Useful Information and Accelerate Research to Operations for Water Management, Drought Monitoring, and Wildlife Management. The 14th Symposium on Societal Applications: Policy, Research and Practice, American Meteorological Society's Annual Meeting, Phoenix, AZ, January 6-10, 2019
- 2018 Yocum, H.M. and A.J. Ray. Closing information gaps to support wildlife management and natural resource decision making: a case study from the Prairie Potholes Region. American Geophysical Union (Poster), Washington, D.C., December 11, 2018
- 2018 Fieldnotes on the production of science at a Federal Research Lab under the Trump administration. Annual Meeting of the American Anthropological Association, Nov. 18, 2018
- 2016 Invited presentation, "There's an Anthropologist in my Science: Contributions of Anthropology to interdisciplinary research." Arctic Science Summit Week, Fairbanks, AK, March 14, 2016
- 2015 Panelist, "Studying Through' in Anthropology Roundtable: Tips, Tools, and Strategies for Emerging Policy Scholars." Invited panel at the Annual Meeting of the American Anthropological Association, Denver, CO

- 2015 “REDD Violence, Green Violence: Webs of Violence and Carbon Offsets in Malawi.” Association of American Geographers’ Annual Meeting, Chicago, IL
- 2014 “Beyond ‘Pixels and Bits’: Encounters with Climate Knowledge and Uncertainty.” Annual Meeting of the American Anthropological Association, Washington, D.C.
- 2013 “The (In)Visible Hand?: Investors, Markets, and Carbon Projects-As-Development in Malawi.” Annual Meeting of the American Anthropological Association, Chicago, IL
- 2013 “Good Air, Bad Air: Communicating Carbon and REDD+ Projects in Malawi.” Society for Applied Anthropology Annual Meeting, Denver, CO
- 2012 “‘It *Becomes* Scientific’: Creating REDD+ Projects in Malawi’s Protected Areas.” Annual Meeting of the American Anthropological Association, San Francisco, CA
- 2010 “Carbon Sequestration Projects and Forest Governance in Malawi.” Annual Meeting of the American Anthropological Association, New Orleans, LA
- 2008 “Gendered Dimensions of Climate Change in Malawi.” Presidential Invited Panel, American Anthropological Association Annual Meeting, Philadelphia, PA

Posters, Campus and Local Presentations

- 2019 Yocum, H.M. and A.J. Ray. Closing information gaps to support wildlife management and natural resource decision making: a case study from the Prairie Potholes Region (Poster) CIRES Rendezvous, May 17, 2019.
- 2018 Yocum, H.M., and I. Rangwala. “Stakeholder engagement and applications for the Evaporative Demand Drought Index (EDDI).” Poster, CIRES Rendezvous, May 18, 2018.
- 2018 Yocum, H.M., and I. Rangwala. “Stakeholder engagement and applications for the Evaporative Demand Drought Index (EDDI).” Poster, Front Range Industry and Postdoc Summit, September 26, 2018
- 2018 Yocum, H.M., and I. Rangwala. “Stakeholder engagement and applications for the Evaporative Demand Drought Index (EDDI).” Poster, USDA Grasslands Conference, Denver, CO. Available at: https://westernforestry.org/wp-content/uploads/2018/05/Yocum_GrasslandPoster.pdf
- 2017 Yocum, H.M. and A.J. Ray. “Using stakeholder engagement to inform product development in the research to applications (R2A) pathway: examples from two products.” Poster, CIRES Rendezvous, Boulder, CO
- 2016 Yocum, H.M. and A.J. Ray. “Translating ‘natural resource manager-speak’ into ‘climate science-speak’.” Poster, CIRES Rendezvous, Boulder, CO
- 2015 Yocum, H.M. and A.J. Ray, B. Rajagopalan, “Adaptation Barriers and Opportunities in the Prairie Potholes Region.” Poster, North Central Climate Science Center’s Open Science

Conference, Ft. Collins, CO

- 2014 Yocum, H.M. and A.J. Ray, "An Interdisciplinary Approach to Understanding the Climate Science Needs of Natural Resource Managers in the Prairie Potholes Region (PPR)." Poster, Boulder Labs Postdoctoral Research Symposium, Boulder, CO

Panels and Sessions organized

- 2014 "Accounting for Climate: Measurement, Management & Mysticism." Two-part panel co-organized with Cynthia Isenhour for the Annual Meeting of the American Anthropological Association, Washington, D.C.
- 2010 "Ca\$hing in on Conservation." Panel co-organizer with Mamta Vardhan for the Annual Meeting of the American Anthropological Association, New Orleans, LA

Conferences Organized

- 2007, 2008 Organizing Committee, First and Second Annual MSU Africanist Graduate Student Conference, Michigan State University, East Lansing, MI

TEACHING EXPERIENCE

Instructor Positions

- 2011 Social and Cultural Analysis (upper-division anthropological theory seminar with 6 students), Department of Anthropology, Michigan State University, East Lansing, MI
- 2010 Socio-Cultural Diversity (introductory cultural anthropology course with 34 students), Department of Anthropology, Michigan State University, East Lansing, MI

Teaching Assistant Positions

- 2011 Global Diversity and Interdependence, Department of Anthropology and Center for Integrated Social Sciences, Michigan State University, East Lansing, MI
- 2010 (Online) Navigating Another Culture, Department of Anthropology, Michigan State University, East Lansing, MI
- 2010 Gender in Cross Cultural Perspectives, Department of Anthropology, Michigan State University, East Lansing, MI
- 2009 Time, Space, Change in Human Society, Department of Anthropology and Center for Integrated Social Sciences, Michigan State University, East Lansing, MI

ADDITIONAL TRAINING AND CERTIFICATES

- 2019 Earth Science Women's Network (ESWN) Leadership Training, Boulder, CO
- 2015 Completed *Water in the Western United States* online course, Univ. of Colorado, Boulder, CO
- 2014 Selected for participation in "Uncertainty in Climate Change Research: An Integrated Approach." Advanced Study Program Summer Colloquium, National Center for Atmospheric Research (NCAR), Boulder, CO

PROFESSIONAL SERVICE AND COMMUNITY OUTREACH

- 2016-present Reviewer, *Human Ecology* (peer-reviewed journal)
- 2015 Reviewer, *Gendered Perspectives on International Development Working Papers*, Center for Gender in Global Context, Michigan State University
- 2014 Human dimensions researcher, Technical Committee, Plains and Prairie Potholes Landscape Conservation Cooperative, US Fish and Wildlife Service
- 2014 Reviewer, North Central Climate Science Center DRI Proposals, Colorado State University
- 2012-2013 Fulbright Alumni Ambassador, Fulbright Program and Institute of International Education

MEMBERSHIPS IN PROFESSIONAL ORGANIZATIONS

- 2007-present American Anthropological Association (AAA)
- 2009-present Anthropology and the Environment (Section of the AAA)
- 2008-present Society for Applied Anthropology (SFAA)
- 2007-2014 African Studies Association (ASA)
- 2004-present Phi Beta Kappa (inducted as a junior)

HONORS AND AWARDS

- 2011-2012 Fulbright IIE Scholar
- 2007-2013 University Distinguished Fellow, Michigan State University
- 2004 Phi Beta Kappa member (inducted as a junior)