

Henry D. Adams

Assistant Professor

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I am an ecologist broadly interested in global change ecology, and specifically in forest response to climate-related disturbances. Recently, my research has focused on the physiological process of tree mortality from drought, its sensitivity to temperature, and the ecosystem and earth system consequences of forest disturbance. I seek to elucidate mechanisms of climate-related ecological responses with an application toward improved prediction of climate change and its effects on the earth system.

CHRONOLOGY OF EDUCATION

Alfred University	(1995-1999)	B.A. Biology, Environmental Studies 1999
Northern Arizona University	(2001-2003)	M.S. Forestry 2003
University of Arizona	(2007-2012)	Ph.D. Ecology & Evolutionary Biology 2012

CHRONOLOGY OF PROFESSIONAL EXPERIENCE

2015 – Present:	<i>Assistant Professor</i> , Department of Plant Biology, Ecology, & Evolution, Oklahoma State University
2014 – Present:	<i>Adjunct Assistant Professor</i> , Department of Biology, University of New Mexico
2012 – 2015:	<i>Director's Postdoctoral Fellow</i> , Earth and Environmental Sciences, Los Alamos National Laboratory
2010 – 2012:	<i>US EPA Science to Achieve Results (STAR) Fellow</i> , Biosphere 2, University of Arizona
2010 – 2011:	<i>Teaching Assistant</i> , Ecology & Evolutionary Biology, University of Arizona
2007 – 2010:	<i>USDA Ecohydrology Fellow</i> , Ecology & Evolutionary Biology, University of Arizona
2007 – 2008:	<i>Science and Society Fellow</i> , Biosphere 2, University of Arizona
2004 – 2006:	<i>Professional Research Assistant</i> , Institute of Arctic and Alpine Research, University of Colorado, Boulder
2001 – 2003:	<i>Graduate Assistant</i> , Forestry, Northern Arizona University

HONORS AND AWARDS

2013	Competitively Selected Participant , DISCCRS VII Symposium, Dissertation Initiative for the advancement of Climate Change Research.
2013	Spot Award for Service , Impacts of Climate Change Tour, 70 th Anniversary Celebration, Los Alamos National Laboratory
2011	William G. McGinnies Graduate Scholarship , Arid Lands Studies, University of Arizona
2011	First Prize Oral Presentation , Environmental Research Grad Blitz, University of Arizona
2008	Outstanding Student Paper Award , Fall Meeting of the American Geophysical Union

PEER-REVIEWED PUBLICATIONS (29 published or in press, h-index: 15(ISI), 18(Google Scholar))

- Smith AMS, Talhelm AF, Johnson DM, Sparks AM, Kolden CA, Yedinak KM, Apostol KG, Tinkham WT, Abatzoglu JT, Lutz JA, Davis AS, Pregitzer KS, **Adams HD**, Kremens RL. 2016. Impacts of fire radiative energy density doses on *Pinus contorta* and *Larix occidentalis* seedling physiology and mortality. Accepted, *International Journal of Wildland Fire*.
- Grossiord C, Sevanto S, Dawson TE, **Adams HD**, Collins AD, Dickman LT, Newman BD, Stockton EA, McDowell NG. 2016. Warming combined with more extreme precipitation regimes modifies the water sources of trees. In Press, *New Phytologist*. doi: 10.1111/nph.14192
- Grossiord C, Sevanto S, **Adams HD**, Collins AD, Dickman LT, McBranch N, Michaletz S, Stockton EA, Vigil M, McDowell NG. 2016. Precipitation, not air temperature, drives functional responses of trees in semi-arid ecosystems. In Press, *Journal of Ecology*.
- Smith AMS, Talhelm AF, Kolden CA, Newingham BA, **Adams HD**, Cohen JD, Yedinak KM, Kremens RL. 2016. The ability of winter grazing to reduce wildfire size and fire-induced plant mortality was not demonstrated: A comment on Davies et al. 2015. *International Journal of Wildland Fire* 25: 484-488.
- Garcia-Forner N, **Adams HD**, Sevanto S, Collins AD, Dickman LT, Hudson P, Zeppel MJB, Martínez-Vilalta J, McDowell NG. 2016. Responses of two semiarid conifer tree species to reduced precipitation and warming reveal new perspectives for stomatal regulation. *Plant, Cell, and Environment* 39: 38-49.
- Adams HD**, Collins AD, Briggs SP, Vennetier M, Dickman LT, Sevanto SA, Garcia-Forner N, Powers HH, McDowell NG. 2015. Experimental drought and heat can delay development and reduce foliar and shoot growth in semiarid trees. *Global Change Biology*. 21:4210-4220
- Quentin AG, Pinkard EA, Ryan MG, Tissue DT, Bagget LS, **Adams HD**, Maillard P, Marchand J, Landhausser SM, et al. 2015. Non-structural carbohydrates in woody plants compared among laboratories. *Tree Physiology* 35: 1146-1165.
- Villegas JC, Dominguez F, Barron-Gafford GA, **Adams HD**, Guardiola-Claramonte M, Sommer E, Wiede AL, Rivera IC, Espeleta JF, Zou CB, Breshears DD, Huxman TE. 2015. Sensitivity of regional evapotranspiration partitioning to variation in woody plant cover. *Global Ecology and Biogeography* 24:1040-1048.
- Zeppel MJB, Harrison SP, **Adams HD**, Li G, Kelley DI, West A, Dawson T, Fensham R, Medlyn BR, Palmer A, Tissue DT, McDowell NG. 2015. Drought and resprouting plants. *New Phytologist* 206:583-589.
- Hartmann H, **Adams HD**, Anderegg WRL, Jansen S, Zeppel MJB. 2015. Research frontiers in drought-induced tree mortality: crossing scales and disciplines. *New Phytologist* 205:965-969.
- Adams HD**, Williams AP, Xu C, Rauscher SA, Jiang X, McDowell NG. 2013. Empirical and process-based approaches to climate-induced forest mortality models. *Frontiers in Plant Science* 4: Article 438.
- Breshears DD, **Adams HD**, Eamus D, McDowell NG, Law DJ, Will RE, Williams AP, Zou CB. 2013. The critical amplifying role of increasing atmospheric moisture demand on tree mortality and associated regional die-off. *Frontiers in Plant Science* 4: Article 266.
- Franz TE, Zreda M, Rosolem R, Hornbuckle BK, Irvin SL, **Adams HD**, Kolb TE, Zweck C, Shuttleworth WJ. 2013. Ecosystem-scale measurements of biomass water using cosmic ray neutrons. *Geophysical Research Letters* 40:3929-3933.

- Adams HD**, Germino MJ, Breshears DD, Barron-Gafford GA, Guardiola-Claramonte M, Zou CB, Huxman TE. 2013. Nonstructural leaf carbohydrate dynamics of *Pinus edulis* during drought-induced tree mortality reveal role for carbon metabolism in mortality mechanism. *New Phytologist* 197:1142-1151.
- Zeppel MJB, Anderegg WRL **Adams HD** 2013. Forest mortality due to drought: latest insights, evidence and unresolved questions on physiological pathways and consequences of tree death. *New Phytologist* 197:372-374.
- Adams, HD**, Luce CH, Breshears DD, Allen CD, Weiler M, Hale VC, Smith AMS, Huxman TE. 2012. Ecohydrological consequences of drought- and infestation-triggered tree die-off: Insights and hypotheses. *Ecohydrology* 5:145-159.
- Royer PD, Cobb NS, Clifford MJ, Huang C, Breshears DD, **Adams HD**, Villegas JC. 2011. Extreme event-triggered overstory vegetation loss increases understory solar input regionally: multi-scale ecological implications. *Journal of Ecology* 99:714-723.
- Zeppel MJB, **Adams HD**, Anderegg WRL 2011. Mechanistic causes of tree drought mortality: recent results, unresolved questions and future research needs. *New Phytologist* 192:800-803.
- Adams HD**, Macalady AK, Breshears DD, Allen CD, Stephenson NL, Saleska SR, Huxman TE, McDowell NG. 2010. Climate-induced tree mortality: earth system consequences. *Eos, Transactions, American Geophysical Union*. 91:153-154. (Invited Paper)
- Koepke, DF, Kolb TE, **Adams HD**. 2010. Variation in woody plant mortality and dieback from severe drought among soils, plant groups, and species within a northern Arizona ecotone. *Oecologia*. 163:1079-1090.
- Adams HD** et al. 2009. Reply to Leuzinger et al.: Drought-induced tree mortality temperature sensitivity requires pressing forward with best available science. *Proceedings of the National Academy of Sciences, USA*. 106:E107-E107.
- Adams HD** et al. 2009. Reply to Sala: Temperature sensitivity in drought-induced tree mortality hastens the need to further resolve a physiological model of death. *Proceedings of the National Academy of Sciences, USA*. 106:E69-E69.
- Adams HD**, Guardiola-Claramonte M, Barron-Gafford GA, Villegas JC, Breshears DD, Zou CB, Troch PA, Huxman TE. 2009. Temperature sensitivity of drought-induced tree mortality portends increased regional die-off under global-change-type drought. *Proceedings of the National Academy of Sciences, USA*. 106:7063-7066.
- Barger NN, **Adams HD**, Woodhouse CA, Neff JC, Asner GP. 2009. Influence of livestock grazing and climate on pinyon pine (*Pinus edulis*) dynamics. *Rangeland Ecology and Management*. 62:531-539.
- Breshears DD, Huxman TE, **Adams HD**, Zou CB, Davison JE. 2008. Vegetation synchronously leans upslope as climate warms. *Proceedings of the National Academy of Sciences, USA* 105: 11591-11592.
- McDowell NG, **Adams HD**, Bailey JD, Kolb TE. 2007. The role of stand density on growth efficiency, leaf area index, and resin flow in southwestern ponderosa pine forests. *Canadian Journal of Forest Research* 37:343-355.
- McDowell NG, **Adams HD**, Bailey JD, Hess M, Kolb TE. 2006. Homeostatic maintenance of ponderosa pine gas exchange in response to stand density changes. *Ecological Applications* 16:1164-1182.
- Adams HD** and Kolb TE. 2005. Tree growth response to drought and temperature in a mountain landscape in northern Arizona, USA. *Journal of Biogeography* 32:1629-1640.

Adams HD and Kolb TE. 2004. Drought responses of conifers in ecotone forests of northern Arizona: tree ring growth and leaf $\delta^{13}\text{C}$. *Oecologia* 140:217-225.

SCHOLARLY PRESENTATIONS (Lead Author and Presenter)

- Adams HD**, Collins AD, Briggs SP, Vennetier M, Dickman LT, Sevanto SA, Garcia-Forner N, Powers HH, McDowell NG. 2015. Experimental drought and heat can delay phenological development and reduce growth in semiarid trees. Poster. Annual meeting of the Ecological Society of America. August 10th. Baltimore Convention Center, Baltimore, MD.
- Adams HD**. 2014. Tree stress and mortality from drought. Department of Biological Sciences. **Invited Seminar**. November 13th. Oakland University, Rochester, MI.
- Adams HD**, Sevanto S, Dickman LT, Gaylord MG, Plaut, J, McDowell NG, Pockman W, Breshears DD, Huxman TE. 2014. The physiology of direct climate stress on tree mortality: where do insects fit in? **Invited Talk**. Entomological Society of America, Entomology 2014. November 18th. Oregon Convention Center, Portland, OR.
- Adams HD** and the Tree Drought Mortality Review Team. 2014. The physiology of tree mortality from drought. Talk. International Union of Forestry Research Organizations World Congress. October 9th. Salt Palace Convention Center, Salt Lake City, UT.
- Adams HD** and the Tree Drought Mortality Review Team. 2014. A multiple species synthesis of tree mortality physiology – how prevalent are hydraulic failure and carbohydrate depletion? **Invited Talk**. August 14th. Sacramento Convention Center, Sacramento, CA.
- Adams HD**, Sevanto SA, Dickman LT, and McDowell NG. 2014. Does NSC storage influence survival under drought? **Invited Talk**. August 14th. Sacramento Convention Center, Sacramento, CA.
- Adams HD**. 2014. Tree stress and mortality from drought. Department of Forest, Rangeland and Fire Science. **Invited Seminar**. February 14th. University of Idaho, Moscow, ID.
- Adams HD**. 2014. Tree stress and mortality from drought. Plant Biology Department. **Invited Seminar**. January 13th. University of Vermont, Burlington, VT.
- Adams HD**. 2013. Warmer drought kills trees faster, but by how much? Dissertations Initiative for the Advancement of Climate Change Research (DISCCRS) VIII Symposium. **Invited Talk**. October 16th. La Foret Conference Center, Colorado Springs, CO.
- Adams HD**, Sevanto S, Dickman LT, Williams AP, Rauscher S, Jiang X, Xu C, Cai M, Pockman WT, McDowell NG, and members of the McDowell and Pockman labs. 2013. Investigation of climate-induced forest mortality from physiological mechanism to carbon consequences. Poster. Fourth All-Investigators Meeting of the North American Carbon Program. February 6th, Hyatt Regency Albuquerque, Albuquerque, NM.
- Adams HD**, Dickman LT, Sevanto S, McDowell NG, Pockman WT, Breshears DD, Huxman TE. 2012. What can non-structural carbohydrates tell us about tree drought mortality mechanism?: An analysis of results from several experiments on southwest US species. Talk. Fall meeting of the American Geophysical Union. December 4th, Moscone Center, San Francisco, CA.
- Adams HD**, Breshears DD, McDowell NG. 2012. Drought-induced tree mortality in the Southwest: temperature sensitivity and earth system feedbacks. Talk. Southwest Climate: Past, Present, and Future. September 7th, Valles Caldera National Preserve Science and Education Center, Jemez Springs, NM.
- Adams HD**, Barron-Gafford GA, Marasco LM, Wiede AL, Heard MM, Minor RL, Gardea AA, Bentley LP, Law DJ, Breshears DD, Huxman TE. 2012. Drought-induced *Pinus* seedling mortality

- hastens linearly with temperature and respiration during stomatal closure. Poster. Annual meeting of the Ecological Society of America. August 8th, Oregon Convention Center, Portland, OR.
- Adams HD**, Luce CH, Breshears DD, Weiler M, Hale VC, Allen CD, Smith AMS, Huxman TE. 2011. Ecohydrological consequences of drought- and infestation-triggered tree die-off: Insights and hypotheses. Poster. Fall meeting of the American Geophysical Union. December 7th, Moscone Center, San Francisco, CA.
- Adams HD**, Germino MJ, Breshears DD, Barron-Gafford GA, Guardiola-Claramonte M, Zou CB, Huxman TE. 2011. Experimental evaluation of interrelated physiological mechanisms of tree drought mortality: Reduced non-structural carbohydrates with drought induced tree death. Talk. Annual meeting of the Ecological Society of America. August 11th, Neal Kocurek Memorial Austin Convention Center, Austin, TX.
- Adams HD**, Macalady AK, Breshears DD, Allen CD, Luce CH, Royer PD, Huxman TE. 2010. Climate-induced tree mortality: earth system consequences for carbon, energy, and water exchanges. **Invited Poster**. Fall meeting of the American Geophysical Union. December 15th, Moscone Center, San Francisco, CA.
- Adams HD**, Guardiola-Claramonte M, Barron-Gafford GA, Breshears DD, Germino MJ, Zou CB, Law DJ, Cobb NS, Huxman TE. 2010. Global warming, extreme drought events, and tree mortality: ecological transformations, mechanisms, impacts, and uncertainties. **Invited Talk**. Annual meeting of the Ecological Society of America. August 3rd, David L. Lawrence Convention Center, Pittsburgh, PA.
- Adams HD**, Breshears DD, Zou CB, Law DJ, Cobb, NE, Huxman TE. 2009. Rapid landscape change along semiarid elevation gradients: ecohydrological drivers and temperature sensitivity of drought-triggered tree die-off. Poster. AGU Chapman Conference on Examining Ecohydrological Feedbacks of Landscape Change Along Elevation Gradients in Semiarid Regions. October 7th, Boise and Sun Valley, ID.
- Adams HD**, Guardiola-Claramonte M, Barron-Gafford GA, Sommer E, Villegas JC, Breshears DD, Zou, CB, Troch PA, Law DJ, Cobb NE, Huxman TE. 2009. Global change enhances vegetation vulnerability to drought: Warmer drought will kill trees faster and more frequently. Talk. Annual meeting of the Ecological Society of America. August 5th, 2009. Albuquerque Convention Center, Albuquerque, NM.
- Adams HD**, Breshears DD, Guardiola-Claramonte M, Zou, CB, Huxman TE. 2008. Global change enhances vegetation vulnerability to drought: Warmer drought kills pinyon pines faster. Talk. Fall meeting of the American Geophysical Union. December 16th, Moscone Center, San Francisco, CA.
- Adams HD**, Zou, CB, Breshears DD, Guardiola-Claramonte M, Cobb NE, Huxman TE, Troch, PA. 2008. Experimental determination of thresholds of tree mortality in response to global-change-type drought: Accounting for root volume in transplant manipulations to facilitate cross-study comparisons. Poster. Annual meeting of the Ecological Society of America. August 5th, Midwest Airlines Center, Milwaukee, WI.
- Adams HD**, Villegas JC, Guardiola-Claramonte M, Barron-Gafford GA, Breshears DD, Zou, CB, Huxman TE. 2007. Biosphere 2: Testing the influence of global change dynamics on key interactions between plants and water. Poster. Integrating Science and Management on the Colorado Plateau. October 31st, Northern Arizona University, Flagstaff, AZ.
- Adams, HD** and Kolb TE. 2003. Using radial growth and foliar $\delta^{13}\text{C}$ as measures of drought sensitivity in trees at ecotone communities in northern Arizona. Poster. Annual meeting of the Ecological

Society of America. August 4th, Savannah International Trade & Convention Center, Savannah, GA.

Adams, HD and Kolb TE. 2003. Tree radial growth response to climate for different species, elevations, and environments in northern Arizona. Poster. 2003 Southwest Drought Summit. May 12th, at Northern Arizona University, Flagstaff AZ.

PUBLIC OUTREACH PRESENTATIONS

Adams HD. 2015. Environmental Ecology. **Invited Talk**. Oklahoma State University Botanical Society, October 26th, Oklahoma State University, Stillwater, OK.

Adams HD. 2014. Tree Mortality in New Mexico. **Invited Talk**. Sangre De Cristo Audubon Society. April 9th, Unitarian Universalist Church, Santa Fe, NM.

Adams HD. 2008. Warmer droughts kill trees faster: and experiment at Biosphere 2. **Invited Talk**. Science Saturday Series. July 12th, Biosphere 2, University of Arizona, Oracle, AZ.

GRANTS AND CONTRACTS

DOE, Office of Science – Stress responses in two tree species to drought and warming. **\$10,000**, Science Undergraduate Laboratory Internship funding, Mentor/PI (**Adams**) 5/01/14-8/31/14.

DOE, Office of Science – Tree response to drought and increased temperature: phenology, growth, and physiology. **\$16,000**, Science Undergraduate Laboratory Internship funding, Mentor/PI (**Adams**) 1/2/14-5/31/14.

DOE, LANL, LDRD – Cosmic-ray measurement of ecological disturbance from die-off and fire. **\$46,000**, Equipment Purchase Grant, PI (**Adams**), Co-PI (McDowell) 7/25/13.

DOE, Office of Science – Tree phenological and growth response to drought and increased temperature in pinyon pine and juniper. **\$10,000**, Science Undergraduate Laboratory Internship funding, Mentor/PI (**Adams**) 5/20/13-8/31/13.

DOE, Office of Science – The influence of species drought response strategy on the physiology of tree mortality. **\$10,000**, Science Undergraduate Laboratory Internship funding, Mentor/PI (**Adams**) 5/20/13-8/31/13.

DOE, LANL, LDRD – Determining physiological predictors of climate-driven forest mortality. **\$304,400** Director's Postdoctoral Fellowship Grant, PI/Mentor (McDowell), Co-PI/Applicant (**Adams**) 5/29/12-5/28/14.

EPA, STAR – Temperature sensitivity and physiological mechanism of drought-induced tree mortality: Improving assessment of global change impacts. **\$111,000**, Science to Achieve Results (STAR) Fellowship, PI (**Adams**) 9/1/10 – 8/31/13.

University of Arizona, Graduate and Professional Student Council – Global change enhances vegetation vulnerability to drought: Warmer drought kills pinyon pines faster. **\$500**, Travel Grant (**Adams**) 12/15/08-12/19/08.

Alfred University, Alfred Research Grants for Undergraduate Students **\$500** (**Adams**) 8/23/99 - 12/31/99.

SERVICE

Teaching

BIOL 3034

General Ecology

Oklahoma State University

Fall 2015, Fall 2016

Department and University Service

2015 - Present: Curriculum Committee, Department of Plant Biology, Ecology, & Evolution
2015 - Present: Faculty Advisor, Oklahoma State University Botanical Society
2015 Presentation Judge, Oklahoma-Louis Stamps Alliance for Minority Participation Research Symposium, Oklahoma State University

Guest Lectures

Fall 2015	Bowdoin College	The physiology of tree mortality from drought
Fall 2011, 2010	University of Arizona	Global climate change: focus on terrestrial biosphere – atmosphere interactions
Fall 2011, 2010, 2008	University of Arizona	Field techniques in Ecohydrology.
Spring 2011	University of Arizona	The physiology of tree drought mortality.

Advising

Oklahoma State University

Current graduate students as major advisor (2): Alissa Freeman, MS in Plant Biology; William Hammond, PhD in Plant Science.

Current graduate students as committee member (3): Justin Dee, PhD in Plant Science, Oklahoma State University; Jacob Dyer, PhD in Natural Resource Ecology and Management, Oklahoma State University; Raquel Feltrin, PhD in Natural Resources, University of Idaho.

Los Alamos National Laboratory

Mentor to undergraduate students for Science Undergraduate Laboratory Internship:

Summer 2013 and Spring 2014: Samuel Briggs, Northern Arizona University
Summer 2013 and Summer 2014: Andrew Leung, Pacific Lutheran University

Outreach Activities

Los Alamos National Laboratory, **Judges Science Camp** – On two occasions, I lead an interpretive tour of the Los Alamos Survival/Mortality Experiment for New Mexico appeals, district, and supreme court judges, explaining tree mortality research, experimental design, and hypothesis testing. 3/24/14, 3/23/15.

Los Alamos National Laboratory, **70th Anniversary Celebration – Impacts of Climate Change Tour** – I interpreted research, and answered questions on climate change and forest response, including a tour of a prototype open-top-chamber for our ongoing tree drought mortality experiment. 7/27/13.

New Energy Economy, **Face Climate Reality - Hike in the Los Conchas Burn** – Lead interpretive hike open to the public and explained forest management, climate change, and wildfire science. 3/30/13.

Biosphere 2, University of Arizona, **Science and Society Fellow** – interpreted my PhD research as it happened along tour route to visitors, organized interpretive booth on plant water use, conducted hands-on measurement workshop where visitors could measure stomatal conductance on dying and healthy trees. 7/1/07 – 9/31/08.

Professional Activities

Meeting Co-organizer: **International Interdisciplinary Workshop on Tree Mortality**, October 21-24, 2014, Max-Planck Institute for Biogeochemistry, Jena, Germany.

Session Organizer/Co-organizer:

Drought effects on embolism formation and recovery: Linking experimental results and synthesizing observations. Organized Oral Session, Ecological Society of America (ESA) Annual Meeting, August 2015, Baltimore, MD.

Drought and tree mortality: Linking experimental results and observations with predictive models, Organized Oral Session, Ecological Society of America (ESA) Annual Meeting, August 2014, Sacramento, CA.

Climate change, drought and tree mortality: pattern, process, and prediction, Organized Oral Session, ESA Annual Meeting, August 2013, Minneapolis, MN.

Ecological consequences of climate- and infestation-caused tree mortality; effects on organisms and processes from local to global scales, Organized Oral Session, ESA Annual Meeting, August 2012, Portland, OR.

Manuscript reviewer for: *Ecohydrology, Ecological Applications, Ecology Letters, Frontiers in Plant Science, Functional Ecology, Global Change Biology, Global Ecology and Biogeography, Hydrological Processes, Journal of Imaging Science and Technology, Nature Plants, New Phytologist, Oecologia, Physiologia Plantarum, PeerJ, Rapid Communications in Mass Spectroscopy, PLoS One, Remote Sensing of Environment, Tree Physiology, Trees: Structure and Function, Western North American Naturalist.*

Proposal reviewer for: NSF Hydrologic Sciences Program, Israeli Science Foundation Individual Research Grant Program, Northern Arizona University School of Forestry Mission Research, University of Arizona Graduate and Professional Student Council Travel Grants

Professional membership: Ecological Society of America, Society of American Foresters