

CURRICULUM VITAE

CONNIE A. WOODHOUSE

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EDUCATION

Ph.D. (December 1996) Department of Geosciences, University of Arizona, Tucson, Arizona

MS (March 1989) Department of Geography, University of Utah, Salt Lake City, Utah

BA (May 1979) Prescott College, Prescott, Arizona

PROFESSIONAL POSITIONS

Professor (May 2013 - present), School of Geography and Development, Laboratory of Tree-Ring Research, and Department of Geosciences, University of Arizona, Tucson, AZ

Interim Director (Jan. 2014 – May 2015), School of Geography and Development, University of Arizona, Tucson, AZ

Associate Director (Aug. 2012-Mar. 2014), School of Geography and Development, University of Arizona, Tucson, AZ

Associate Professor (Jan. 2007 – Apr. 2013), School of Geography and Development, Laboratory of Tree-Ring Research, and Department of Geosciences, University of Arizona, Tucson, AZ

Physical Scientist (Apr. 2000-Dec. 2006), Paleoclimatology Branch, NOAA National Climatic Data Center, Boulder, CO

Research Scientist III, Fellow (Mar. 2004-Dec. 2006), Institute of Arctic and Alpine Research, University of Colorado, Boulder

Adjunct Assistant Professor (Feb. 2001-Dec. 2006), Department of Geography, University of Colorado, Boulder, CO

Faculty Affiliate (2004-2008), Department of Civil Engineering, Colorado State University, Fort Collins, CO

Research Scientist II (Mar. 1999-Mar. 2004), Institute of Arctic and Alpine Research, University of Colorado, Boulder

Visiting Scientist (May 1998-Apr. 2000), Paleoclimatology Program, NOAA National Geophysical Data Center, Boulder, CO

Research Scientist I (Jul. 1997-Feb. 1999), Institute of Arctic and Alpine Research, University of Colorado, Boulder

National Research Council Associate (Jan. 1997- Apr. 1998), Paleoclimatology Program, NOAA National Geophysical Data Center, Boulder

AWARDS

José A. Boninsegna Frontiers in Dendrochronology Award, Tree-Ring Society, 2016

Udall Center Fellowship, Udall Center for Public Policy and the Institute of the Environment, University of Arizona, 2010

Administrator's Award, National Oceanic and Atmospheric Administration, 2006

Bronze Award, Department of Commerce, 2005

Andrew Ellicott Douglass Memorial Scholarship, Laboratory of Tree-Ring Research, University of Arizona, 1996

RESEARCH GRANTS

- NSF-ATM, Expanded and Lengthened Dendroclimatic Reconstructions of Great Plains Drought, PI, \$304,827, 04/01/98 - 03/31/01.
- NSF-ESH, Temperature Variability since AD 1000 in the Western United States from Tree Rings, Co-PI, \$52,782 (my part), 10/01/98 -09/30/01.
- NSF-ESH, Collaborative Research: Reconstructions of Drought and Streamflow over the Coterminous United States from Tree Rings with extensions into Mexico and Canada, Co-PI , \$35,674 (my part), 09/01/00 - 08/31/03.
- NOAA Environmental Services Data and Information Management (ESDIM), Fire History Database, PI, \$82,000, 3/2003-12/2003.
- NOAA Environmental Services Data and Information Management (ESDIM), Historical Climate Data Catalogue, PI, \$30,000, 3/2004 – 12/2004.
- NOAA Office of Global Programs, Extended Hydroclimatic Records for the Upper Colorado River Basin, PI, \$154,515, 08/01/02 - 07/31/04.
- US Geological Survey, Tree-Ring Chronologies from Remnant Collections, Western Colorado, PI, \$22,250, 4/05 - 12/05, \$22, 250, 1/06 – 12/06, \$22,260, 1/07-12/07.
- Denver Water, Updates and Improvements of Tree-Ring Reconstructions of South Platte and Colorado River Streamflow, PI, \$28,000 6/03-7/05.
- National Park Service, Riparian Forest Age Structure, Sand Creek Massacre NHS, Co-PI, \$11,000, 09/05-10/06.
- NSF- BCS - Geography and Regional Science, Climate and Woodland Expansion in the Western Great Plains, USA, \$6,000 (co-PI part), 9/1/04 - 8/31/06.
- NOAA Climate Program Office, 'Living' Blended North American Drought Reconstruction Grid, \$40,000 (co-PI part), 01/01/04 -12/31/06.
- NOAA Climate Program Office, A Multiproxy Paleofire Database, PI, \$93,000, 03/01/03 -02/28/06.
- NOAA Climate Program Office, Tree-Ring Reconstructions of Hydroclimatic Variability in the Rio Grande Basin, New Mexico, PI, \$55,000, 7/1/07- 6/30/08.
- NOAA Climate Program Office, Interpreting and Refining the Climate Signal in Millennial-Length 5-Needle Pine Chronologies, PI, \$189,000, 7/1/07- 6/30/09.
- Science Foundation of Arizona, Decision Support for Defining Historical Fire Regimes: The International Multiproxy Paleofire Database, PI, \$75,000, 4/1/07- 8/31/08
- NOAA Climate Program Office, TreeFlow: A Drought Planning Resource for Water Management in the Western U.S., PI, \$108,161, 8/1/08-7/30/10.
- NOAA Climate Program Office, In With the Old: Evaluation of Paleo Data in Drought Planning for California, PI, \$63,055, 8/1/08-7/30/09, extended to 2010.
- NSF-Paleoclimate Perspectives on Climate Change program, An Investigation of North American Monsoon Variability using Instrumental and Tree-Ring Data, PI, \$607,829, 9/1/08-8/31/13.
- California Department of Water Resources, Drought Planning Workshops for California. PI, \$25,024, 9/1/08-6/30/09.
- NOAA - Sector Applications and Research Program (SARP), Knowledge to Action: An Assessment of the Transfer of Climate Science to Decision Making. Co-PI , \$122,559; 5/1/09-10/31/10
- Bureau of Reclamation, Enhancing Water Supply Reliability Through Improved Predictive Capacity and Response. Phase 3. Co-PI, \$457,331, 4/1/09-12/31/10.
- Colorado Springs Utilities, Reconstructions of the Arkansas River, \$8,535; 8/17/09-9/30/10
- California Department of Water Resources, Tree-Ring Study for California. Co-PI, \$399,718; 10/1/10-4/30/13.

NOAA-Western Water Assessment, Lower Colorado River Basin Paleohydrology. Co-PI, \$30,000; 10/1/10-9/30/11

NOAA Climate Program Office, The Climates of Southwestern North American Megadrought: Multi-Proxy, Multivariate Observations and Analysis, Co-PI, \$419,510; 05/01/11-04/30/14.

NSF-Macrosystem Biology program, Collaborative Research: Processes and Patterns in The North American Monsoon Macrosystem. Co-PI, \$2,949,091; 04/01/11-03/31/16.

NSF- Paleoclimate Perspectives on Climate Change program, Reconstructing Winter Temperatures in the Rockies using Tree-Ring Oxygen Isotopes, PI, \$239,049; 06/01/11-05/31/14.

WaterSmart, Bureau of Reclamation, Tree-Ring Reconstructions of Streamflow: Using Analogues from the Past for Water Resource Decision Making in California, PI, \$200,000; 10/01/11-09/20/14.

DOI Southwest Climate Science Center, Disentangling the Influence of Antecedent Temperature and Soil Moisture on Colorado River Water Resources, PI, \$140,207, 2014-2016

State of New Mexico, Update of Tree-Ring Reconstruction of the Rio Grande at Otowi Bridge, New Mexico, PI, \$25,000, 2014.

NSF- Paleoclimate Perspectives on Climate Change, Collaborative Research: Multi-Site Paleo-Reconstruction of Missouri River Streamflows from Tree Rings; PI with E. Cook and M. Lall (Columbia University), E. Wise (U. North Carolina), G. Pederson (USGS), \$166,666 (UA part), 2014-2017.

California Department of Water Resources, University of Arizona Southern California Tree-Ring Study. Co-PI, \$596,691, 7/1/15-6/30/17.

MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS

American Geophysical Union
 American Meteorological Society
 American Quaternary Society
 Association of American Geographers
 Tree-Ring Society

PROFESSIONAL ACTIVITIES

Presentations at conferences, workshops (first author presentations only) (2011-2016):

Woodhouse, C.A. Use-Inspired Hydroclimatic Research in the Upper Colorado River Basin. Biennial Conference of Science & Management on the Colorado Plateau & Southwest Region, Flagstaff, AZ, October 6, 2015.*

Woodhouse, C.A., D. B. Ferguson, and J.L. Rice. Some Practical Guidelines for Science/Decision-Making Collaborations. 2015 UCOWR/NIWR/CUAHSI Annual Conference, Henderson, NV, June 16-18, 2015*

Woodhouse, C.A., G.Pederson, K. Morino, and G. McCabe. The Role of Temperature in Mediating Relationships between Cool Season Precipitation and Water Year Streamflow in the UCRB. Colorado River Hydrology Work Group Meeting, Tucson AZ, May 27, 2015.

Woodhouse, C.A. Paleodroughts: Analogues for the Future? New Mexico Geological Society Annual Meeting, Socorro, New Mexico, April 24, 2015. Keynote*

Woodhouse, C.A. Drought Planning: The Long-Term Context. 2015 U.S. Drought Monitor Forum, Desert Research Institute, Western Regional Climate Center, April 14-16, 2015. Keynote*

Woodhouse, C.A. G.T. Pederson, K. Morino, and G. McCabe. Investigating the role of temperature in mediating relationships between cool season precipitation and water year streamflow in the Upper

- Colorado River basin. Pacific Climate (PACCLIM) Meeting, Pacific Grove, CA, March 8-11, 2015.
- Woodhouse, C.A. Connecting Environmental Science and Decision Making (CESD) – a Graduate Certificate Program. Regional Integrated Sciences and Assessment PI Meeting, Charleston, SC. Jan 15-17, 2015.
- Woodhouse, C.A., S. McAfee, G. McCabe, P. Miller, G. Pederson. Evaluating the Influence of Precipitation, Temperature, and Soil Moisture on Upper Colorado River Basin Streamflow and Drought. H31M-07. American Geophysical Union, San Francisco, CA, Dec. 15-19, 2014.
- Woodhouse, C.A. Collaborative Research on Upper Colorado River Basin Streamflow and Drought. Association of Pacific Coast Geographers meeting, Tucson, AZ. Sept. 24-27, 2014.
- Woodhouse, C.A., S.B. Malevich, D.M. Meko, and S. Gangopadhyay. Tree-ring reconstruction of the Klamath River. AMQUA 23rd Biennial Meeting, Seattle, WA. August 7-9, 2014
- Woodhouse, C.A. Great Plains Droughts in a Long-Term Context: The Tree-Ring Perspective. 40th Annual Great Plains Symposium, Lincoln, NE. April 1-4, 2014.*
- Woodhouse, C.A., R.L. Brice, M.A. Crimmins, H.L. Faulstich, D. Griffin, D.B. Ferguson, A.M. Meadow. Three-Season Hydroclimatic Variability from Tree Rings in the Four Corners Region, USA. AAG Annual Meeting, Tampa, FL, April 12, 2014.
- Woodhouse, C.A. S.B. Malevich, D.M. Meko, and S. Gangopadhyay. Klamath River Reconstruction: Strategies for Dealing with Uncertainty in Calibration Data Tree-ring reconstruction of the Klamath River. GC11A-0957, American Geophysical Union, San Francisco, CA, Dec. 9-13, 2013
- Woodhouse, C.A., S.B. Malevich, D.M. Meko, and S. Gangopadhyay. Klamath River Streamflow Reconstructed from Tree Rings: Extracting Meaningful Information from Imperfect Data. Pacific Northwest Climate Science Conference, Portland, OR, Sept. 5-6, 2013.
- Woodhouse, C.A.. A Paleoclimatic Perspective on Water Resource Vulnerability in the Western US. ACCWW Symposium Lamont Doherty Earth Observatory, May 19-23, 2013.*
- Woodhouse, C.A., D. Ferguson, J.J. Lukas, J.L. Rice. Linking Tree-Ring Research and Resource Management through Collaboration. Ameridendro Conference, Tucson, AZ, May 13-17, 2013, Keynote.*
- Woodhouse, C.A., D. Griffin, H.L., Faulstich, and C.L. Castro. Regional Patterns of Cool Season and Monsoon Precipitation in the Southwestern US over the Past Four Centuries, GC046, American Geophysical Union, San Francisco, CA, Dec. 5-9, 2012.*
- Woodhouse, C.A., D. Griffin, H.L., Faulstich, and T.W. Swetnam. Southwestern US Seasonal Precipitation and Fire Occurrence from Tree Rings, GC049, American Geophysical Union, San Francisco, CA, Dec. 5-9, 2012.
- Woodhouse, C.A., D.M. Meko, D. Griffin, C.L. Castro. Streamflow and Monsoon Reconstructions for the Lower Rio Grande Basin, USA. Mountain Climate (MtnClim) meeting, Estes Park, CO, Sept. 1-4, 2012.
- Woodhouse, C.A., A Perspective on the Challenges and Opportunities in the Hydrologic Sciences. Panel, The Future of Hydrological Sciences: Arizona and Beyond, 2012 AHS Annual Water Symposium September 18-21, 2012.*
- Woodhouse, C.A. North American Monsoon Project. Southwest Climate Workshop, Los Alamos National Laboratory, Jemez Springs NM, Sept. 6, 2012.
- Woodhouse, C.A., J.L. Rice, and D. Ferguson. Linking Environmental Research and Practice through Collaboration. Universities Council on Water Resources Annual Conference, Santa Fe, NM. July 17-19, 2012*
- Woodhouse, C.A., D. Griffin, and G. Pederson. From Monsoon to Snowpack: Hydroclimatic Variability in Western North America from Tree Rings. American Quaternary Association (AMQUA) Biennial Meeting, Duluth, MN, June 21-24, 2012.*
- Woodhouse, C.A. How Can Paleoenvironmental Data Inform Adaptation? Tree Rings, Drought, and

- Water Resources. Adaptation Futures: 2012 International Conference on Climate Adaptations, Tucson, AZ, May 29-31, 2012.
- Woodhouse, C.A. M. Crimmins, D.B. Ferguson, G.M. Garfin, and C.A. Scott. Making the Connection between Environmental Science and Decision Making. ED51C. American Geophysical Union, San Francisco, CA, Dec. 5-9, 2011.
- Woodhouse, C.A. Using Tree Rings to Document Drought in the Rio Grande Basin: Lessons from the Past, Applications to the Future. New Mexico Water Law Seminar, November 4, 2011.*
- Woodhouse, C.A. Droughts of the past, analogues for the future? Geological Society of America, Minneapolis, MN, October 11, 2011.*
- Woodhouse, C.A., K. Morino, and J. J. Lukas. Water Resource Management Informed by Paleohydrologic Data: An Example from the Colorado River Basin. XIV World Water Congress, Porto de Galinhas, Brazil, September 25-29, 2011.*
- Woodhouse, C.A. Tree Rings and Water Resource Management in the Southwest. Water Management and Climate Change in Northern Arizona, Northern Arizona University, Flagstaff, Arizona, June 8, 2011.*
- Woodhouse, C.A. and K. Morino. Water Resource Management Informed by Paleohydrologic Data: Examples from the Western U.S. Final Science Meeting: IAI CRN 2047, Documenting, Understanding and Projecting Changes in the Hydrological Cycle in the American Cordillera. Tilcara, Argentina, April 3-9, 2011.*
- Woodhouse, C.A. Hydrologic Variability in the Upper Colorado River Basin over the Past 1300 Years. 2011 Tamarisk Research Conference, Tucson, AZ, 16-17 February, 2011.*
- Woodhouse, C.A. Tree-Ring Reconstructions of Streamflow and Drought: Lessons from the Past for Future Planning. Climate Change Adaptation Workshop, Santa Fe and Carson National Forests. Abiquiu, NM, January 27, 2011.*

* = invited

Invited talks, seminar series, general public presentations (2011-2016):

- “Effects of Climate on Colorado River Flow: The influence of temperature on streamflow and drought” Utah Associated Municipal Power Systems (UAMPS) Member Conference, Midway, UT, Aug. 16, 2016.
- “Effects of Climate on Colorado River Flow: Perspectives from the Past, Present, and Future” Laboratory of Tree-Ring Research Seminar Series, University of Arizona, March 22, 2016.
- “Disentangling the Influence of Temperature and Antecedent Soil Moisture on Colorado River Water Resources” Water Manager Project Advisory Board workshop, Denver Federal Center, Denver, CO, Sept. 17, 2015.
- “The Role of Temperature (and soil moisture) in Mediating Relationships between Cool Season Precipitation and Water Year Streamflow in the UCRB” Denver Water Board, Denver, CO, July 21, 2015; and Colorado River District brown bag talk, Glenwood Springs, CO, July 23, 2015.
- “Tree Rings and Drought with Applications to Water Resource Management in the Western US” National Center for Atmospheric Research (NCAR), Invited speaker series, Boulder, CO, July 14, 2015.
- “Paleohydrology of the Klamath, San Joaquin, Sacramento River Basins” California Department of Water Resources, Sacramento CA, October 29, 2014.
- “Collaborative Research on Upper Colorado River Basin Streamflow and Drought” Bureau of Reclamation, Colorado River Hydrology Work Group Meeting. December 11, 2014.
- “Klamath River Streamflow Reconstructed from Tree Rings” Klamath County Historical Society, Klamath Falls, OR, May 22, 2014.
- “Using Tree Rings to Document Drought in the Colorado River Basin and Colorado Plateau” UA Humanities Seminar for adult learners. March 13, 2014.

- “Lessons from the Past: Tree Rings, Drought, and Water Resources.” Burack Distinguished Lecture Series, University of Vermont, November 14, 2013.
- “Tree-Ring Reconstructions of Streamflow, Precipitation, and Monsoon Variability in the Rio Grande Basin,” Rio Grande Tree-Ring Monsoon Workshop, New Mexico State University, Las Cruces, NM, September 19, 2013
- “Colorado River Water: Past, Present, and Future? Osher Lifelong Learning Institute (OLLI), University of Arizona, March 26, 2013.
- “Tree Rings and their Role in Water Resources Decision-Making.” School of Natural Resources and Environment Seminar Series, University of Arizona, March 20, 2013.
- “Insights from Arizona’s Past Climate: A 2000 Year Perspective,” Planning for Local Government Climate Challenges: Connecting Research and Practice Workshop, Arizona State University, Tempe, AZ, Oct. 18-19, 2012.
- “Megadroughts in Western North America: Definitions and Causes?” Arizona Climate and Water Resources Alliance Collaborative Workshop on Climate Extremes, Arizona State University, Tempe, AZ, April 4, 2012
- “Tree-Ring Reconstructions of Southwestern Climate: Lessons from the Past with Implications for the Future.” Citizens Water Advocacy Group, Prescott AZ, March 10, 2012.
- “California’s Droughts Over Time.” Aquarium of the Pacific, Long Beach, CA, Oct. 27, 2011.
- “A History of Southwestern Drought over the past 1200 years from Tree Rings.” Mountain Vista Unitarian Universalist Congregation of Northwest Tucson, February 27, 2011.
- “Drought History of the Southwest Reconstructed from Tree Rings” Pima County Local Drought Impacts Group, January 12, 2011.

Other professional activities:

- American Quaternary Society council, paleoclimatology representative, 2010-2014
- International Tree-Ring Data Bank, chairperson of advisory board, 2001-2013
- International Multiproxy Paleofire Database, advisory board member, 2002-2012
- Associate Editor, *Dendrochronologia*, 2002-present
- Member, National Academy of Sciences, Committee on the Scientific Bases of Colorado River Basin Water Management, 2006-2007.
- Member, National Academy of Sciences, Committee on the Challenges and Opportunities in the Hydrologic Sciences, 2009-2011.
- Member, U.S. National Committee (USNC) of the International Quaternary Association (INQUA), 2008-2015
- Peer reviewer for journal articles: *Arctic, Antarctic, and Alpine Research, Bulletin of the American Meteorological Society, Canadian Journal of Forest Research, Climatic Change, Climatic Change Letters, Climate Dynamics, Climate of the Past, Climate Research, Dendrochronologia, Earth Interactions, Earth Science Reviews, Journal of Climate, Ecology, Eos, Geology, Global Change Biology, Geophysical Research Letters, International Journal of Climatology, Journal of Environmental Management, Journal of Geography in Higher Education, Journal of Geophysical Research – Atmospheres, Journal of Hydrology, Journal of the American Water Resources Association, Journal of Water Resources Planning and Management, Landscape Ecology, New Phytologist, Quaternary Research, Physical Geography, Science, The Holocene, Tree-Ring Research*
- Proposal reviews: NSF Paleoclimatic Perspectives on Climate Change, Climate Dynamics, Ecosystems Studies, Geography and Regional Science; the Canadian Foundation for Climate and Atmospheric Sciences, Comisión Nacional de Investigación Científica y Tecnológica, Gobierno de Chile, Natural Sciences and Engineering Research Council of Canada, NOAA Climate

PUBLICATIONS

Peer reviewed

- Schwartz, M., J.K. Hiers, J. Kevin, F. Davis, G. Garfin, S. Jackson, A. Terando, **C. Woodhouse**, T.L. Morelli, M. Williamson, M. Brunson, In review. Developing a Translational Ecology Workforce. *Frontiers in Ecology and the Environment*.
- Bracken, C, B. Rajagopalan, **C.A. Woodhouse**. In review. A Bayesian hierarchical nonhomogeneous hidden Markov model for multisite streamflow reconstructions. *Water Resources Research*.
- Wilding, T. and **C.A. Woodhouse**. In review. Assessing the Potential of Pinyon Pine for Climate Reconstructions in Eastern California. *Tree-Ring Research*.
- Routson, C.C., **C.A. Woodhouse**, J.T. Overpeck, J.L. Betancourt, N.P. McKay. 2016. Teleconnected ocean forcing of western North American droughts and pluvials during the last millennium. *Quaternary Science Reviews* 146, 238-250. .doi.org/10.1016/j.quascirev.2016.06.017
- Littell, J.S., G.T. Pederson, S.T. Gray, M. Tjoelker, A.F. Hamlet, **C.A. Woodhouse**. 2016. Reconstructions of Columbia River streamflow from tree ring chronologies in the Pacific Northwest, USA. *Journal of the American Water Resources Association* 1-21. doi: 10.1111/1752-1688.12442.
- Woodhouse, C.A., G.T. Pederson, K. Morino, S.A. McAfee, G.J. McCabe. 2016. Increasing influence of air temperature on upper Colorado River Streamflow. *Geophysical Research Letters* 43, doi:10.1002/2015GL067613.
- Routson, C.C., J.T. Overpeck, **C.A. Woodhouse**, W.F. Kenney. 2016. Three millennia of southwestern North American dustiness and future implications. *PLOS One*, doi: 10.1371/journal.pone.0149573.
- Carillos, C.M., C.L. Castro. **C.A. Woodhouse**, and D. Griffin. 2016. Low frequency variability of the North American monsoon as diagnosed through earlywood and latewood tree-ring chronologies in the southwestern U.S. *International Journal of Climatology*, 36, 2254–2272, doi:10.1002/joc.4493.
- Gandopadhyah, S. G. McCabe, and **C.A. Woodhouse**. 2015. Beyond annual streamflow reconstructions for the Upper Colorado River Basin: A paleo-water-balance approach. *Water Resources Research* 51, doi:10.1002/2015WR017283.
- Barger, N.N. and **C.A. Woodhouse**, 2015. Piñon pine (*Pinus edulis* Engelm.) growth responses to climate and substrate in southern Utah, U.S.A.. *Plant Ecology* doi 10.1007/s11258-015-0478-4.
- Meko, D.M., , R. Touchan, J. Villanueva Diaz, Griffin, D., **C.A. Woodhouse**, C.L. Castro, C. Carrillo, S.W. Leavitt. 2013. Sierra San Pedro Mártir, Baja California, cool-season precipitation reconstructed from earlywood width of *Abies concolor* tree rings. *Journal of Geophysical Research: Biogeosciences*, 118, 1-14, doi: 10.1002/2013JG002408.
- Ciancarelli, B., C.L. Castro, **C.A. Woodhouse**, F. Dominguez, H-I. Chang, C. Carrillo, and D. Griffin.2013. Dominant patterns of U.S. warm season precipitation variability in a fine resolution observational record, with focus on the Southwest. *International Journal of Climatology*, doi: 10.1002/joc.3716.
- Malevich, S.B., **C.A. Woodhouse**, D.M. Meko. 2013. Tree-ring reconstructed hydroclimate of the Upper Klamath basin. *Journal of Hydrology*, doi.org/10.1016/j.jhydrol.2013.04.048
- Woodhouse, C.A., D.M. Meko, D. Griffin, and C.L. Castro. 2013. Tree Rings reveal multi-season drought variability in the lower Rio Grande basin, USA. *Water Resources Research* 49, 1-7. doi:10.1002/wrcr.20098.
- Griffin, D., **C.A. Woodhouse**, D.M. Meko, D.W. Stahle, H.L. Faultich, C. Carrillo, R. Touchan, C.L.

- Castro, S.W. Leavitt. 2013. A paleoclimate regime of concurrent cool-season and monsoon drought in the Southwest. *Geophysical Research Letters* 40, 1-5. doi:10.1002/grl.50184.
- Ault, T.R., J.E. Cole, J.T. Overpeck, G.T. Pederson, S. St. George, B. Otto-Bliesner, **C.A. Woodhouse**, and C. Deser. 2013. The continuum of drought variability in western North America: insights from instrumental, paleoclimate and global climate model data. *Journal of Climate* 26, 5863-5878. DOI: 10.1175/JCLI-D-11-00732.1
- Williams, A.P., C. D. Allen, A. K. Macalady, D. Griffin, **C. A. Woodhouse**, D. M. Meko, T. W. Swetnam, S. A. Rauscher, R. Seager, H. D. Grissino-Mayer, J. S. Dean, E. R. Cook, C. Gangogadagamage, M. Cai, N. G. McDowell, 2012. Temperature as a potent driver of regional forest drought stress and tree mortality. *Nature Climate Change*, DOI: 10.1038/NCLIMATE1693
- Faulstich, H.L., **C.A. Woodhouse**, and R. Griffin. 2012. Reconstructed cool- and warm-season precipitation over the tribal lands of northeastern Arizona. *Climatic Change*, DOI 10.1007/s10584-012-0626-y.
- Kariyeva, J., W.D.J. van Leeuwen, and **C.A. Woodhouse**. 2012. Impacts of climate gradients on the vegetation phenology of major land use types in Central Asia (1981–2008). *Frontiers of Earth Science* 6, 206–225, doi 10.1007/s11707-012-0315-1.
- Woodhouse, C.A., D.W. Stahle, and J. Villanueva-Díaz. 2012. Rio Grande and Rio Conchos water supply variability from instrumental and paleoclimatic records. *Climate Research*.51, 125-136. doi: 10.3354/cr01059
- Routson, C.C, **C.A. Woodhouse**, and J.T. Overpeck. 2011. Second century megadrought in the Rio Grande headwaters, Colorado: How unusual was medieval drought? *Geophysical Research Letters*, doi:10.1029/2011GL050015.
- Griffin, D., D.M. Meko, R. Touchan, S.W. Leavitt, **C.A. Woodhouse**. 2011. Latewood chronology development for summer-moisture reconstruction in the U.S. Southwest. *Tree-Ring Research* 67, 87-101.
- Pederson, G.T., S. T. Gray, **C. A. Woodhouse**, J. L. Betancourt, D. B. Fagre, J.S. Littell, E. Watson, B. H. Luckman, L. J. Graumlich. 2011. Evidence from tree rings highlights the unusual nature of recent snowpack declines. *Science* 333, 332-335. doi: 10.1126/science.1201570
- Gray, S.T., J.J. Lukas, **C.A. Woodhouse**. 2011. Millennial-length records of streamflow from three major upper Colorado River tributaries. *Journal of the American Water Resources Association*, doi: 10.1111/j.1752-1688.2011.00535.x.
- Woodhouse, C.A., G.T. Pederson, and S.T. Gray. 2011. An 1800-year record of decadal-scale hydroclimatic variability in the Upper Arkansas River basin from bristlecone pine. *Quaternary Research*. 75, 483-490. doi: 10.1016/j.yqres.2010.12.007
- Meko, D.M. and C.A. **Woodhouse**, 2011. Dendroclimatology, dendrohydrology, and water resources management, In: *Tree Rings and Climate: Progress and Prospects* (eds. M.K. Hughes, T.W. Swetnam, H.F. Diaz). Springer, pp. 231-261.
- Pederson, G.T., S.T. Gray, T.Ault, W. Marsh, D.B. Fagre, A.G. Bunn, **C.A. Woodhouse**, L.G. Graumlich. 2010. Climatic controls on the snowmelt hydrology of the northern Rocky Mountains, USA. *Journal of Climate* 24, 1666-1687.
- Meko, D.M. **C.A. Woodhouse**, and K. Morino. 2010. Dendrochronology and links to streamflow. *Journal of Hydrology*, doi: 10.1016/j.jhydrol.2010.11.041.
- Leavitt, S.W., **C.A. Woodhouse**, C.L. Castro, W.E. Wright, D.M. Meko, R. Touchan, D. Griffin and B. Ciancarelli, 2010. The North American Monsoon in the U.S. Southwest: potential for investigation with tree-ring carbon isotopes. *Quaternary International* 235, 101-107 doi.org/10.1016/j.quaint.2010.05.006.
- Kay, M.W., **C.A. Woodhouse**, and S.T. Jackson. 2010. Persistence and expansion of ponderosa pine woodlands in the west-central Great Plains during the past two centuries. *Journal of Biogeography*. doi:10.1111/j.1365-2699.2010.02327.x

- Banner, J.L., C.S. Jackson, L. Yang, K. Hayhoe, **C. Woodhouse**, L. Gulden, K. Jacobs, G. North, R. Leung, and W. Washington. 2010. Climate change impacts on Texas water. *Texas Water Journal* 1, 1-19.
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