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REFEREED PUBLICATIONS	118. Abatzoglou, J.T. , S.Z. Dobrowski, S.A. Parks, and K.C. Hegewisch*, 2018, Terraclimate, a high-resolution global dataset of monthly climate and climatic water balance from 1958-2015, Scientific Data	
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19. Stahle, D.W., R.D. Griffin, M.K. Cleaveland, J.R. Edmondson, F.K. Fye, D.J. Burnette, **J.T. Abatzoglou**, K.T. Redmond, D.M. Meko, M.D. Dettinger, D.R. Cayan and M.D. Therrell, 2011. [A Tree-Ring Reconstruction of the Salinity Gradient in the Northern Estuary of San Francisco Bay](#). *San Francisco Estuary and Watershed Science*, 9(1).
18. **Abatzoglou, J.T.** and C.A. Kolden. 2011, Relative Importance of Weather and Climate on Wildfire Growth in Interior Alaska, *International Journal of Wildland Fire*, 20, 479-486
17. Cordero, E.C., W. Kessomkiat, **J.T. Abatzoglou** and S.A. Mauget. 2011, Identification of Distinct Patterns in California Temperature Trends, *Climatic Change*, 108, 357-382
16. Holden, Z.A, **J.T. Abatzoglou**, L.S. Baggett and C. Luce. 2011, Empirical downscaling of daily minimum air temperature at very fine resolutions in complex terrain, *Agricultural And Forest Meteorology*, 151, 1066-1073
15. Miller, C., **J.T. Abatzoglou**, T.J. Brown, T., and A. Syphard. 2011, Wilderness Fire Management in a Changing Environment, In: *Landscape Ecology of Fire*, McKenzie, D., C. Miller and D. Falk [eds.], doi:10.1007/978-94-007-0301-8
14. **Abatzoglou, J.T.**, 2011, Influence of the PNA on Declining Mountain Snowpack in the Western United States, *International Journal of Climatology*, 31: 1135-1142
13. Crimmins, S.M, S.Z. Dobrowski, J.A. Greenberg, **J.T. Abatzoglou**, and A.R. Mynsberge, 2011. Changes in climatic water balance drive downhill shifts in plant species optimum elevations. *Science* 331: 324-327
12. **Abatzoglou, J.T.** and T.J. Brown, 2009, Influence of the Madden Julian Oscillation on Summertime Cloud-to-Ground Lightning Activity over the Continental US, *Monthly Weather Review*, 137, 3596-3601
11. **Abatzoglou, J.T.**, K.T. Redmond, L.M. Edwards, 2009, Classification of Regional Climate Variability in the State of California, *Journal of Applied Meteorology and Climatology*, 48(8): 1527-1541
10. Henebry, G.M, A.D. Richardson, D.D. Breshears, **J.T. Abatzoglou**, J.I. Fisher, E.A. Graham, J.M. Hanes, L. Liang, B.E. Wilson, and J.T. Morrisette, 2009, Phenological trend estimation: a reply to Sagarin, *Frontiers in Ecology and the Environment*, 7(6): 296

9. Dobrowski, S.Z., **J.T. Abatzoglou**, J.A. Greenberg, S.G. Schladow, 2009, How much influence does landscape-scale physiography have on air temperature in a mountain environment? *Agricultural and Forest Meteorology*, 149: 1751-1758
8. Jones, B.M., C.A. Kolden, R. Jandt, **J.T. Abatzoglou**, F. Urban and C.D. Arp, 2009, Fire behavior, weather and burn severity of the 2007 Anaktuvuk River tundra fire, North Slope, Alaska, *Arctic, Antarctic, and Alpine Research*, 41(3): 309-316
7. Morrisette, J.T., A.D. Richardson, A.K. Knapp, J.I. Fisher, E.A. Graham, **J. Abatzoglou**, B.E. Wilson, D.D. Breshears, G.M. Henebry, J.M. Hanes and L. Liang, 2009, Learning the Rhythm of the Seasons in the Face of Global Change: Phenological Research in the 21st Century, *Frontiers in Ecology and the Environment*, 7(5): 253-260
6. **Abatzoglou, J.T.**, K.T. Redmond, 2007, The Asymmetry of Trends in Spring and Autumn Temperature and Circulation Regimes over Western North America, *Geophys. Res. Lett.*, 34, L18808
5. **Abatzoglou, J.T.**; Book Chapter 2-3, 2007, *Climate Change: What It Means for Us, Our Children, and Our Grandchildren*, MIT Press
4. **Abatzoglou, J.T.**, G. Magnusdottir, 2007, Wave breaking along the stratospheric polar vortex as seen in ERA-40 data, *Geophysical Research Letters*, 34, L08812
3. **Abatzoglou, J.T.**, G. Magnusdottir, 2006, Opposing Effects of Reflective and Non-reflective Planetary Wave Breaking on the NAO, *Journal of Atmospheric Sciences*, 63, 3448-3457
2. **Abatzoglou, J.T.**, G. Magnusdottir, 2006, Planetary Wave Breaking and Nonlinear Reflection: Seasonal Cycle and Interannual Variability, *Journal of Climate*, 19, 6139-6152
1. **Abatzoglou, J.T.**, G. Magnusdottir, 2004. Nonlinear planetary wave reflection in the troposphere. *Geophysical Research Letters*, 31, L091015

* indicates student or post-doc advisee

- EXTERNAL FUNDING
27. Mapping the current and future suitability of specialty crop cultivation in the Northwest, USDA NW Climate Hub, PI (2017-, \$40,000)
 26. Development of a Drought Early Warning System for California-Nevada and the Pacific Northwest, NOAA, Co-PI (2016-, \$150,000)
 25. Social-ecological-technological solutions to waste reuse in food, energy, and water systems (ReFEWS), Co-PI (2016-, \$50,000)
 24. Collaborative Visualization of Projected Climatic Conditions and Related Risks for the Northwest US, USDA NW Climate Hub, PI (2015-, \$87,000)
 23. Advancing Resilience to Compounding Disasters: An Integrated Natural-Human Systems Assessment of Wildfire Vulnerability, NSF Hazard SEES, Co-PI (2015-, \$55,000)
 22. Cloud Computing Support for Drought Monitoring and Fallow Field Tracking, USGS, Co-PI (2015-, \$80,000)
 21. Climate Impacts Research Consortium 2, NOAA, Co-PI (2015-, \$120,000)
 20. Understanding Climate and Land Use Drivers of Invasive-Grass Fueled Fires Across the Western U.S., NASA Terrestrial Ecology, Co-PI (2014- , \$50,000)
 19. Regional Approaches to Climate Change in Pacific Northwest Agriculture, USDA NIFA, Co-PI (2011- 2017, \$350,000)
 18. Disappearing refugia: identifying trends and resilience in unburned islands under climate change, USGS, (2014 - 2017, \$15,000)
 17. Evaluation and Downscaling of CMIP5 Climate Simulations for the Southeast U.S., PI (2014-2015 , \$30,000)
 16. Google Drought, Google Earth Engine Research Faculty Award, Co-PI (2014, \$70,000)

15. Weather Data and Forecasting Applications for management of Ecological Site Transitions, USDA-NIFA, Co-PI (2013-2016, \$120,000)
14. Climate Impacts Research Consortium, NOAA, Co-PI (2010-2015,\$100,000)
13. Future mega-fires and smoke impacts, Joint Fire Science Program, Co-PI (2011-2015, \$135,000)
12. Seattle Public Utility (SPU) Piloting Utility Modeling Applications (PUMA) project, Seattle Public Utilities, Co-PI, (2013-2014 , \$43,000)
11. Integrated Climate Scenarios of the Pacific Northwest, USGS, Co-PI (2012-2014 , \$45,000)
10. Extratropical Control of Gulf Surges: The Role of Rossby Wave Breaking and Associated Mesoscale Processes, NSF Climate and Large Scale Dynamics, PI (2008-2013, \$202,938)
9. NSF EPSCoR Innovative Working Group, PI (2012, \$8,000)
8. Climate Scenarios for Oregon and Washington, Bureau of Land Management, Co-PI (2012-2014, \$20,000)
7. WestWide Drought Tracker: Monitoring Drought at Fine Spatial Scales Across the Western US, NOAA TRACS, PI (2008-2012, \$125,000)
6. Downscaled datasets and evaluation for PUMA, Portland Water Bureau, PI, (2013-2014, \$25,000)
5. Toward next generation downscaling for hydrologic prediction in the Pacific Northwest, USGS, Co-PI (2011-2014 \$25,000)
4. Impacts of a Changing Climate on Water Resources in the Eastern Great Basin, Bureau of Reclamation, Co-PI (2011-2013, \$86,000)
3. Understanding climate impacts on fuels management, Joint Fire Science Program, Co-PI, (2008-2012, \$50,000)
2. USDA-Forest Service JVA, Fine Scale Climate Modeling, Agreement with Rocky Mountain Research Station, PI (2009-2012, \$15,000)
1. Downscaling for Climate Change Assessment, USFS WWETAC, PI (2009-2011, \$50,000)

* indicates Abatzoglou portion

CONFERENCE AND
NON-REFEREED
PUBLICATIONS

18. Lute, A., J.T. Abatzoglou and K.C. Hegewisch, Characteristics and Interannual Variability of Extreme Snowfall Events, 2013 Western Snow Conference, Jackson, WY, April 2013
17. Milanes, C. ed., Coauthors including Abatzoglou, J.T., 2013, Indicators of Climate Change in California, California Environmental Protection Agency. Office of Environmental Health Hazard Assessment, [Online](#).
16. Abatzoglou, J.T., E.N. Stavros, N.K. Larkin D. McKenzie and E.A. Steel, A new age of megafires? The role of climate in megafires in the western United States, Fifth International Fire Ecology and Management Congress, Portland, OR, Dec. 2012
15. Abatzoglou, J.T., D.E. Rupp, K. Hegewisch and P.W. Mote, [Projected climate scenarios for the Pacific Northwest \(CMIP5\)](#), Third Annual Pacific Northwest Climate Science Conference, Boise, ID, Oct. 2012
14. Abatzoglou, J.T., P.W. Mote and V.P. Walden, Observed Trends in Agricultural Climate Metrics in the Pacific Northwest, REACCH 2nd Annual Meeting, Pendleton, OR, Feb. 2012
13. Abatzoglou, J.T., C.A. Kolden, T.J. Brown, and K. Riley, Towards a processed-based understanding of climate-fire relationships of the western United States, Ninth Symposium on Fire and Forest Meteorology, AMS Palm Springs, CA Oct. 2011
12. Abatzoglou, J.T. , [The Role of The Pacific North American Pattern on the Pace of Future Winter Warming Across Western North America](#), Second Annual Pacific Northwest Climate Science Conference, Seattle, WA Sep. 2011
11. Abatzoglou, J.T. , CDSC Stakeholder Workshop, Managing wildfire in a changing climate, Boise, ID Jun. 2011

10. Abatzoglou, J.T. C.A. Kolden, T.J. Brown. Observed changes in fire danger in the western United States, AAG Annual Meeting, Seattle, WA Apr. 2011
 9. Abatzoglou, J.T. Allied forces of climate change in the West: The confluence of the Pacific North American pattern and anthropogenic forcing, AMS Annual Meeting, Seattle, WA Jan. 2011
 8. Abatzoglou, J.T., K.T. Redmond, L.M. Edwards and A. Joros, Monitoring of drought in the western United States: metrics suitable for tracking drought historically and throughout the 21st century, AMS Annual Meeting, Seattle, WA Jan. 2011
 7. Abatzoglou, J.T. and T.J. Brown, [The Confluence of Weather and Climate Stressors Contributing to the Fires](#), Third Fire Behavior and Fuels Conference, Spokane, WA Oct. 2010
 6. Abatzoglou, J.T., C.A. Kolden, T.J. Brown, The Weather and Climate Stressors of the 1910 Fires, Association of Pacific Coast Geographers Annual Meeting, Coeur d'Alene, ID Sep. 2010
 5. Abatzoglou, J.T., V.P. Walden and B.C. Moore, Climate Scenarios of Drought for the Pacific Northwest, Idaho EPSCoR Annual Meeting, Boise, ID Aug. 2010
 4. Abatzoglou, J.T., C.A. Kolden, T.J. Brown, Impact of Climate Change on Fire Danger across the Western United States, American Geophysical Union Fall Meeting, San Francisco, CA Dec. 2009
 3. Abatzoglou, J.T. and C.A. Kolden, Assessing the Influence of Climate Versus Weather on Alaska Wildfires: Implications for Climate Change, Eighth Symposium on Fire and Forest Meteorology, Kalispell, MT Oct. 2009
 2. Abatzoglou, J.T., C.A. Kolden, T.J. Brown, Impact of Climate Change on Fire Danger across the Western United States, Eighth Symposium on Fire and Forest Meteorology, Kalispell, MT Oct. 2009
 1. Abatzoglou, J.T. and L.E. Edwards, Climate Tools for Water Managers - California Climate Tracker: Tracking Climate One Step at a Time, Southwest Hydrology, Jan/Feb 2009, pp 31
-
22. Abatzoglou, J.T., How much has human-caused climate change influenced wildfire extent across western US forests?, GFDL Science Seminar Series, Princeton, NJ, Oct 2017
 21. Abatzoglou, J.T., How much has human-caused climate change influenced wildfire extent across western US forests?, UC Irvine Earth System Science seminar, Irvine, CA, Apr 2017
 20. Abatzoglou, J.T., Idaho's Changing Climate, Idaho Climate Hearing at State Capitol, Boise, ID, Mar 2017
 19. Abatzoglou, J.T. and T.E. Link, The Changing Climate, Snow, and Flow in Idaho, Lewis-Clark State College Environmental Lecture Series, Lewiston, ID, Feb 2017
 18. Abatzoglou, J.T., Parched and Drenched: Future Climate and Water Resources in the Pacific Northwest, NW Water and Climate conference, Skamania, WA, Jan 2017
 17. Abatzoglou, J.T., How much has human-caused climate change influenced wildfire extent across Northwest US forests?, Portland State University seminar, Portland, OR, Dec 2016
 16. Abatzoglou, J.T., [A changing climate for agriculture: Tools for kick starting adaptation](#), Climate Learning Network webinar, Jun, 2016
 15. Abatzoglou, J.T., Water Year 2015: A prototype year for future climate?, Spokane River Forum, Coeur d'Alene, ID, Mar 2016
 14. Abatzoglou, J.T., The future climate of the northwestern US, Agriculture in a Changing Climate Workshop, Kennewick, WA, Mar 2016
 13. Abatzoglou, J.T., Western US Wildfire in the Anthropocene: Is this the new normal?, Global Change and Sustainability Center seminar, Salt Lake City, UT, Nov 2015
 12. Abatzoglou, J.T., Idaho Water 2016: climatic context for the past and current water year, Idaho Fall Water Outlook forum, Boise, ID, Nov 2015
 11. Abatzoglou, J.T., Climate Change in Idaho, North Idaho College public forum, Coeur d'Alene, ID, Oct. 2014

INVITED
PRESENTATIONS
2012-PRESENT

10. Abatzoglou, J.T., Pacific Northwest Climate Change: a Review and Preview, Pacific Northwest Clean Water Association Annual Meeting, Vancouver, WA, Oct. 2014
9. Abatzoglou, J.T., Climate Change and Pacific Northwest Agriculture, League of Womens Voters, Moscow, ID, Oct. 2014
8. Abatzoglou, J.T., Pacific Northwest Climate Change: a Review and Preview, 5th Annual Pacific Northwest Climate Science Conference, Seattle, WA, Sep. 2014
7. Abatzoglou, J.T., Climate Pulaski: Can climate information tame wildfire hazards?, Annual NOAA RISA meeting, La Jolla, CA, Jan 2013
6. Abatzoglou, J.T., D.E. Rupp and P.W. Mote, [State-of-the-Art Projected Climate Scenarios for the Pacific Northwest based on the Latest Generation of Global Climate Modeling, Climate Change Collaboration in the Pacific Northwest Webinar](#), Oct. 2012
5. Abatzoglou, J.T., What Climate Change looks like in the Pacific Northwest, Pacific Northwest Clean Water Association Annual Meeting, Boise, ID, Oct. 2012
4. Abatzoglou, J.T., A view of Pacific Northwest Climate into the 21st century, Geoscience Department Seminar, Boise State University, Boise, ID, Oct. 2012
3. Abatzoglou, J.T., Climate Change in the Inland Northwest: a scientific walk through time and into the future, Science on Tap Coeur dAlene, Coeur dAlene, ID May. 2012
2. Abatzoglou, J.T., Catastrophic Wildfire in Southern California, A New Normal?, Aquarium Aquatic Academy, Aquarium of the Pacific, Long Beach, CA Apr. 2012
1. Abatzoglou, J.T., Overview of Climate and Climate Change in the Interior Pacific Northwest University of Idaho Extension, Boise, ID Mar. 2012

TEACHING
EXPERIENCE

Instructor

- Geography 100: Physical Geography, University of Idaho
- [Geography 301: Meteorology](#), University of Idaho
- [Geography 313/513: Global Climate Change](#), University of Idaho
- [Geography 401: Climatology](#), University of Idaho
- Geography 404: Weather Analysis and Forecasting, University of Idaho
- [Geography 501: Climate Seminar](#), University of Idaho
- Meteorology 112: Global Climate Change, San Jose State University
- Meteorology 171A: Synoptic Weather Analysis and Forecasting, San Jose State
- Meteorology 171B: Advanced Synoptic Weather Analysis and Forecasting, San Jose State
- Atmospheric Science 414/614: Physical Climatology, University of Nevada, Reno

Mentorship

- Ph.D. students (2): Brandon Moore*, Abigail Lute*, Lauren Parker
- M.S. students (11): Joshua Clark*, James Favors, Holly Diehl, Jeremy Jenkins, Andrew Joros, Jacob Wolf, Donovan VanSant, Stephen Gillis, Abigail Lute, Paige Farrell, Wenlong Feng
- Postdoctoral Researchers (3): Katherine Hegewisch*, Lauren Parker*, Renaud Barbero
- Undergraduate Researchers (4): Alexander Peterson, Stephen Gillis, Jet Johnstone, Blaise DeFranco

* indicates current students/postdocs

SERVICE AND
OUTREACH

- Media Interviews: *Los Angeles Times*, *Orange Country Register*, *USA Today*, *National Public Radio*, *Reno Gazette Journal*, *Fresno Bee*, *Stockton Record*, *Climatewire*, *KLEW*, *Land Letter*, *Bay Citizen*, *Eastern Oregonian*, *Spokesman Review*, *Northwest News Network*, *Idaho Public Television*, *Northwest Public Radio*, *Earthfix*, *Saint Maries Gazette*, *Inland Northwest News*, *KTVB*, *Moscow-Pullman Daily News*, *Lewiston Tribune*, *Boise State Public Radio*, *Climate Central*, *KUOW*, *Seattle Times*, *Capital Press*, *Science News*, *Big Country News*, *Circle of Blue*, *Sandpoint Reader*, *Boise Weekly*, *Idaho Reports*, *InsideClimate News*, *Scientific American*, *FiveThirtyEight*, *Huntington Post*, *Washington Post*, *Yale Environment 360*, *The Atlantic*, *Vox*, *Washington Times*
- Journal Reviewer: *Geophysical Research Letters*, *Journal of Climate*, *Journal of Atmospheric Science*, *International Journal of Wildland Fire*, *The Quarterly Journal of the Royal Meteorological Society*, *International Journal of Climatology*, *Climatic Change*, *Journal of Geophysical Research-Atmospheres*, *Conservation Biology*, *Northwest Science*, *Fire Ecology*, *Rangeland Ecology and Management*, *Journal of American Water Resources Association*, *Bulletin of American Meteorological Society*, *Earth Interactions*, *Journal of Hydrometeorology*, *Journal of Applied Meteorology and Climatology*, *Biogeosciences*, *Journal of Applied and Theoretical Climatology*, *Computers and Geosciences*, *Proceedings of the National Academy of Sciences*, *Risk Analysis*, *Nature Geosciences*, *Current Climate Change Reports*, *International Journal of Biometeorology*, *Water Resources Research*, *Weather and Forecasting*, *PlosOne*, *Forest Ecology and Management*, *Journal of Water and Climate*, *Science Advances*
- Workshop and Conference Committees: Association of Pacific Coast Geographers committee 2010, AMS Fuels Treatment Planning in a Changing Climate Workshop 2011, AFE Fuels Treatment Planning in a Changing Climate Workshop 2011, NSF-EPSCoR Tristate session organizer 2012, NSF EPSCoR Innovative Working Group organizer 2012, Idaho Climate Forum organizer 2012, Northwest Climate Conference (chair 2015; committee 2016-2017), Science Education contributor McCall Outdoor Science School

PROFESSIONAL
MEMBERSHIP

American Meteorological Society
American Geophysical Union
Association of Fire Ecology

PRODUCTS

[Gridded Surface Meteorological Data](#)
[CMIP5 Downscaled Climate Scenarios](#)
[Climate Engine](#)
[NW Climate Toolbox](#)
[University of Idaho Climate Products and Tools](#)
[California Climate Tracker](#)
[Westwide Drought Tracker](#)
[North American Freezing Level Tracker](#)
[ENSO Climate Risks](#)

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