

CURRICULUM VITAE for **Timothy J. Brown, Ph.D.**

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Education

Ph.D., Climatology; Geography, University of Colorado, Boulder (1995)
M.A., Climatology; Geography, University of Colorado, Boulder (1988)
B.A., Astronomy; University of Illinois (Sangamon State Campus), Springfield (1982)

Professional Experience

2010-present Research Professor, Division of Atmospheric Sciences, Desert Research Institute, Reno, NV
2008-present Director, Western Regional Climate Center (WRCC); Desert Research Institute, Reno, NV
2014-2016 Adjunct Senior Research Fellow, School of Geography and Environmental Science, Monash University, Clayton, Victoria, Australia
1998-present Director, Program for Climate, Ecosystem and Fire Applications; Desert Research Institute, Reno, NV
2003-2010 Associate Research Professor, Division of Atmospheric Sciences
2000-2003 Assistant Research Professor, Division of Atmospheric Sciences; Desert Research Institute, Reno, NV
1996-1999 Research Associate, Division of Atmospheric Sciences; Desert Research Institute, Reno, NV
1995-1996 UCAR Visiting Scientist, ASC/WRCC; Desert Research Institute, Reno, NV
1992-1995 Graduate Research Assistant, Cooperative Institute for Research in Environmental Sciences and Department of Geography; University of Colorado, Boulder, CO, and the NOAA Climate Diagnostics Center, Boulder, CO
1983-1992 Professional Research Assistant, Cooperative Institute for Research in Environmental Sciences; University of Colorado, Boulder, CO
1990-1993 Consultant, Space Environment Laboratory; Boulder, CO
1988-1989 Contractor, National Center for Atmospheric Research; Boulder, CO
1985-1987 Consultant, Institute for Behavioral Science; University of Colorado, Boulder, CO
1982-1989 Consultant, Flueck Associates; Boulder, CO
1980-1982 Student Lab Assistant; Sangamon State University, Springfield, IL
1973-1980 Research Assistant; Illinois State Water Survey, Champaign-Urbana, IL

Statement

Dr. Brown conducts applied research and applications development at the Desert Research Institute (DRI) in Reno, Nevada. His primary academic interests include wildland fire-climate and fire-weather connections; the wildfire environment; applications development for wildland fire management planning, decision-making and policy; the interface between science and decision-making; and user engagement through the deliberate co-production of knowledge. Dr. Brown is Director of the Western Regional Climate Center, and established and directs the Program for Climate, Ecosystem and Fire Applications (CEFA) at DRI. He is graduate faculty in the Atmospheric Sciences Program at the University of Nevada, Reno, and quandom Monash University Adjunct in the School of Earth, Atmosphere and Environment, Science Faculty in Clayton, Victoria, Australia.

Professional Memberships

American Meteorological Society
American Geophysical Union
International Association of Wildland Fire
Association of Fire Ecology

Teaching and Advisement

Academic courses taught

Data Analysis in Atmospheric Sciences, Physical Climatology, Synoptic Meteorology, Introduction to Physical Geography, Astronomy

Academic advising and committees

Served on 28 Ph.D./Master's committees

Current and past lecturer

National Advanced Fire Danger Rating System Course at the U.S. Forest Service
National Advanced Fire and Resource Institute
Advanced Fire Behavior Course at the U.S. Forest Service National Advanced Fire and Resource Institute
University of Sassari, Sardinia, Italy, Department of Science of Nature and Environmental Resources (University Master course: Wildfire Planning, Prevention and Fighting in Mediterranean Areas – Fire Behavior)

Associate Member

National Wildfire Coordinating Group Fire Environment Committee

International Journal of Wildland Fire

Associate Editor

Board of Directors, 2016-2021

National Natural Sciences and Engineering Research Council of Canada

Chair, Canadian Forest Service Wildland Fire Research Network Review Panel

California Department of Forestry and Fire Protection

Technical Advisor, Fire Hazard Severity Zones mapping

Southern California Edison

Member, Public Safety Power Shutoff Advisory Board

Awards

Desert Research Institute Outstanding Contributions Award – June 2021

American Meteorological Society Contributions

Probability and Statistics STAC committee member (1989)

Probability and Statistics STAC program member (1992; 1998)

Co-conceived and initiated the formation of the AMS Board on Societal Impacts

Chair of Probability and Statistics STAC (1996)

Program Chair *13th Conference on Probability and Statistics in the Atmospheric Sciences* San Francisco, California (1996)

Organized Probability and Statistics STAC Short Course on Computer Intensive Statistics and Applications in the Atmospheric Sciences (San Francisco, CA 1996)

Organized Probability and Statistics STAC Short Course on Time Series Analysis Methods and Applications in the Atmospheric Sciences (Long Beach, CA 1997)

Organized Probability and Statistics STAC Short Course on Extreme Value Analysis (Reno, NV 1997)

Co-chair of Fire and Forest Meteorology FFM Symposium starting in 2001 (3rd, 4th, 5th, 6th, 7th, 8th, 9th, 10th, 11th, 12th, 13th)

Presidential Forum co-chair 2011 annual meeting

Annual Meeting Oversight Committee (AMOC) member (2012-2014)

Member of Ag and Forest Meteorology STAC (2012-2015)

Stan Changnon Symposium co-chair (2014)

Member of AMS Ad Hoc Committee on Wildfire Weather, Technology and Risk (2020-present)

Local chapter presentations (5)

Publications, Proceedings and Presentations

Journals

Keeley, J.E., J. Guzman-Morales, A. Gershunov, A.D. Syphard, D. Cayan, D.W. Pierce, M. Flannigan, T.J. Brown, 2021: Ignitions explain more than temperature or precipitation in driving Santa Ana wind fires. *Science Advances*, **7**, eabh2262.

Clark, S., G. Mills, T. Brown, S. Harris, and J.T. Abatzoglou, 2021: Downscaled GCM climate projections of fire weather over Victoria, Australia. Part 1: Evaluation of the MACA technique. *International Journal of Wildland Fire*, <https://doi.org/10.1071/WF20174>

Clark, S., G. Mills, T. Brown, S. Harris, and J.T. Abatzoglou, 2021: Downscaled GCM climate projections of fire weather over Victoria, Australia. Part 2: A multi-model

- ensemble of 21st century trends. *International Journal of Wildland Fire*, <https://doi.org/10.1071/WF20175>
- Mills, G., S. Harris, T. Brown, and A. Chen, 2020: Climatology of wind changes and elevated fire danger over Victoria, Australia. *Journal Southern Hemisphere Earth Systems Science*. <https://doi.org/10.1071/ES19043>
- Brown, T.J., S. Leach, B. Wachter, and B. Gardunio, 2020: The Northern California 2018 Wildfire Season. *Special Supplement to the Bulletin American Meteorological Society*, Vol. 101, No. 1, January 2020, S1-S4. DOI:10.1175/BAMS-D-19-0275.1
- Kochanski, A. K., Mallia, D. V., Fearon, M. G., Mandel, J., Souri, A. H., and Brown, T., 2019: Modeling wildfire smoke feedback mechanisms using a coupled fire-atmosphere model with a radiatively active aerosol scheme. *Journal of Geophysical Research: Atmospheres*, 124. <https://doi.org/10.1029/2019JD030558>
- Liu, Y., Kochanski, A., Baker, K. R., Mell, W., Linn, R., Paugam, R., Mandel, J., Fournier, A., Jenkins, M. A., Goodrick, S., Achtemeier, G., Zhao, F., Ottmar, R., French, N. H., Larkin, N., Brown, T. J., Hudak, A., Dickinson, M., Potter, B., Clements, C., Urbanski, S., Prichard, S., Watts, A. C., McNamara, D., 2019: Fire behaviour and smoke modelling: Model improvement and measurement needs for next-generation smoke research and forecasting systems, *International Journal of Wildland Fire*, 28, 570-588, doi: 10.1071/WF18204
- McEvoy, D. J., Hobbins, M., Brown, T. J., VanderMolen, K.A., Wall, T. U., Huntington, J. L., Svoboda, M., 2019: Establishing Relationships between Drought Indices and Wildfire Danger Outputs: A Test Case for the California-Nevada Drought Early Warning System, *Climate*, 7 (4), <https://doi.org/10.3390/cli7040052>
- Nauslar, N., Brown, T. J., McEvoy, D. J., Lareau, N., 2019: Record Setting 2018 California Wildfires [in "State of the Climate in 2018", *Bulletin of the American Meteorological Society*, 100 (9), S195-S196, doi:10.1175/2019BAMSSstateoftheClimate.1
- Prichard, S.J., N.K. Larkin, R.D. Ottmar, N.H.F. French, T. Brown, K. Baker, C. Clements, M. Dickinson, A. Hudak, A. Kochanski, R. Linn, Y. Liu, B Potter, W.E. Mell, D. Tanzer, S. Urbanski, and A. Watts, 2019: The Fire and Smoke Model Evaluation Experiment – a plan for integrated, large fire-atmosphere field campaigns. *Atmosphere*, 10(2), 66; <https://doi.org/10.3390/atmos10020066>
- Nauslar, N.J., B.J. Hatchett, T.J. Brown, and M.L. Kaplan, 2018: Impact of the North American monsoon on wildfire activity in the southwest United States. *International Journal of Climatology*, 1-16, DOI: 10.1002/joc.5899
- Muth, M., K. Anderson, D. Brown, T. Brown, E. Delgado, G. Garfin, T. Hadwen, V. Murphy, R. P. Ramírez, B. Pugh, J. H. R. Gutiérrez, R. Heim, B. Rippey, and M. Svoboda, 2017: Advancing preparedness and response to drought and wildfires through North American transboundary collaboration. *Bulletin of the American Meteorological Society*, ES57-60. DOI:10.1175/BAMS-D-16-0296.1
- White, C.J., multiple authors including T. Brown, 2017: Applications of subseasonal-to-seasonal (S2S) predictions. *Meteorological Applications*, DOI: 10.1002/met.1654.

- Harris, S., G. Mills, T. Brown, 2017: Variability and drivers of extreme fire weather in fire-prone areas of southeastern Australia, *International Journal of Wildland Fire*, **26**, 177–190.
- Wall, T., T. Brown, and N. Nauslar, 2017: Spot Weather Forecasts: Improving Utilization, Communication, and Perceptions of Accuracy in Sophisticated User Groups. *Weather, Climate, and Society*, **9**, 215-226.
- Brown, T., G. Mills, S. Harris, D. Podnar, Hauss Reinbold, and Matt Fearon, 2016: A bias corrected WRF mesoscale fire weather dataset for Victoria, Australia 1972-2012. *Journal of Southern Hemisphere Earth Systems Science*, **60**, 281-313.
- Nauslar, N.J., T.J. Brown and J.D. Horel, 2016: Verification of National Weather Service Spot Forecasts Using Atmospheric Sounding Observations. *J. Operational Meteor.*, **4**(4), 46-57.
- Barbero, R., Abatzoglou, J. T., Brown, T. J., 2015: Seasonal reversal of the influence of El Nino-Southern Oscillation on very large wildfire occurrence in the interior northwestern United States, *Geophysical Research Letters*, **42**(9), 3538-3545.
- Fearon, M.G., T.J. Brown and G.M. Curcio, 2015: Establishing a National Standard Method for Operational Mixing Height Determination. *J. Operational Meteor.*, **3** (15), 172-189.
- Jolly, W.M., M.A. Cochrane, P.H. Freeborn, Z.A. Holden, T.J. Brown, G.J. Williamson, and D.M.J.S. Bowman, 2015: Climate-induced variations in global wildfire danger from 1979 to 2013. *Nature Communications*, 6:7537, DOI: 10.1038/ncomms8537, 11 pp.
- Nauslar, N. J., M. L. Kaplan, J. Wallmann, and T. J. Brown, 2013: A forecast procedure for dry thunderstorms. *J. Operational Meteor.*, **1** (17), 200-214.
- Prahm, N., B. Longo, K. Baxter, and T.J. Brown, 2013: Lightning Does Strike Twice: A Fulminology Primer for Nurse Practitioners. *J. Nurse Practitioners*, **9**, 479-486.
- Brown, H. E., A. C. Comrie, D. M. Drechsler, C. M. Barker, R. Basu, T. Brown, A. Gershunov, A. M. Kilpatrick, W. K. Reisen, and D. M. Ruddell, 2013: "Human Health." In *Assessment of Climate Change in the Southwest United States: A Report Prepared for the National Climate Assessment*, edited by G. Garfin, A. Jardine, R. Merideth, M. Black, and S. LeRoy, 312–339. A report by the Southwest Climate Alliance. Washington, DC: Island Press.
- Owen, G., J.D. McLeod, C. Kolden, D.B. Ferguson, and T.J. Brown, 2012: Wildfire Management and Forecasting Fire Potential: The Roles of Climate Information and Social Networks in the Southwest United States. *Weather, Climate and Society*, DOI: 10.1175/WCAS-D-11-00038.1, **4**, 90-102.
- Abatzoglou, J.T., and T.J. Brown, 2011: A comparison of statistical downscaling methods suited for wildfire applications. *International Journal of Climatology*, DOI: 10.1002/joc.2312.
- Miller, C., J. Abatzoglou, T. Brown, and A. Shyphard, 2011: Chapter 10. *Wilderness Fire Management in a Changing Environment*. The Landscape Ecology of Fire. Springer, pp. 269-294.

- DeGaetano, A.T., T. J. Brown, S. D. Hilberg, K. Redmond, K. Robbins, P. Robinson, M. Shulski and M. McGuirk, 2010: The NOAA Regional Climate Centers: Twenty-five Years of User-Centric Climate Services, *Bulletin American Meteorological Society*, 1633-1644.
- Brown, D.T., R.V. Hoang, M.R. Sgambati, T.J. Brown, S.M. Dascalu, and F.C. Harris, Jr., 2010: An application for tree detection using satellite imagery and vegetation data. *Journal of Computational Methods in Science and Engineering*, 10, Supplement 1/2010, 13-25.
- Hoang, R.V., M.R. Sgambati, T.J. Brown, D.S. Coming, and F.C. Harris, 2010: VFire: Immersive Wildfire Simulation and Visualization. *Computers and Graphics*, 34(6), 655-664.
- Preisler, H.K., S. Zhong, A. Esperanza, T.J. Brown, A. Bytnerowicz, L. Tarnay, 2010: Estimating contribution of wildland fires to ambient ozone levels in National Parks in the Sierra Nevada, California, *Environmental Pollution*, 158, 778–787.
- Kolden, C., and T. Brown, 2010: Beyond wildfire: understanding climate impacts on managed fire in the U.S.A. *International Journal Wildland Fire*, 19, 364-373.
- Abatzoglou, J.T., and T.J. Brown, 2009: Influence of the Madden–Julian Oscillation on Summertime Cloud-to-Ground Lightning Activity over the Continental United States. *Monthly Weather Review*, 137, 3596-3601.
- Evelt, R.R., C.R. Mohrle, B.L. Hall, T.J. Brown, S.L. Stephens, 2008: The Effect of Monsoonal Atmospheric Moisture on Lightning Fire Ignitions in Southwestern North America, *Agriculture and Forest Meteorology*, 148, 1478-1487.
- Sherman, W.R., M.A. Penick, S. Su, T.J. Brown, and F.C. Harris, Jr., 2007: VRFire: an Immersive Visualization Experience for Wildfire Spread Analysis. *Proceedings IEEE Virtual Reality 2007*.
- Kangas, R.S. and T.J. Brown, 2007: Characteristics of U.S. Drought and Pluvials from a High-Resolution Spatial Dataset, *International Journal of Climatology*, **27**, 1303-1335.
- Reinbold, H.J., J.O. Roads, T.J. Brown, 2005: Evaluation of ECPC's fire danger forecasts with RAWS observations. *International Journal of Wildland Fire*, **14**, 19-36.
- Westerling, A.L., D.R. Cayan, T.J. Brown, B.L. Hall and L.G. Riddle, 2004: Climate, Santa Ana winds and autumn wildfires in southern California. *EOS*, **85**(31), 289; 296.
- Brown, T.J., B.L. Hall, A.L. Westerling, 2004: The impact of twenty-first century climate change on wildland fire danger in the western United States: an applications perspective. *Climatic Change*, **62**, 365-388.
- Westerling, A.L, A. Gershunov, T.J. Brown, D.R. Cayan, and M.D. Dettinger, 2003: Climate and wildfire in the western United States. *Bulletin of the American Meteorological Society*, **84**, 595-604.
- Mitchell, D.L., D. Ivanova, R. Rabin, T.J. Brown, and K.R. Redmond, 2002: Sea Surface Temperatures and the North American Monsoon: Mechanistic Implications from Observations. *Journal of Climate*, **15**, 2261-2281.

- Macêdo, M., D. Cook, and T.J. Brown, 2000: Visual data mining in atmospheric science data. *Data Mining and Knowledge Discovery*, **4**(1), 69-80.
- Brown, T.J., and P.W. Mielke, Jr., 2000: Guest Editorial: Statistical mining and data visualization in atmospheric science. *Data Mining and Knowledge Discovery*, **4**(1), 5-6.
- Brown, T.J., M. Berliner, D.S. Wilks, M.B. Richman, and C.K. Winkle, 1999: Statistics education in the atmospheric sciences. *Bull. Amer. Meteor. Soc.*, **80**, 2087-2097.
- Brown, T.J., and B.L. Hall, 1999: The use of t-values in climatological composite analyses. *J. Climate*, **12**, 2941-2944.
- Radok, U., and T.J. Brown, 1996: Antarctic 500 hPa heights and surface temperatures. *Aust. Meteor. Mag.*, **45**, 55-58.
- Radok, U. and T.J. Brown, 1993: Anomaly correlation and an alternative: Partial correlation. *Mon. Wea. Rev.*, **121**, 1269-1271.
- Flueck, J.A. and T.J. Brown, 1993: Criteria and methods for performing and evaluating solar-weather studies. *J. Climate*, **6**, 373-385.
- Lingle, C.S., D.H. Schilling, J.L. Fastook, W.S.B. Paterson, and T.J. Brown, 1991. A flow band model of the Ross ice shelf, Antarctica: response to CO₂-induced climatic warming. *J. Geophys. Res.*, **96**, 6849-6871.
- Joselyn, J.A., J.A. Flueck, and T.J. Brown, 1988. Geomagnetic climatology. *Annales Geophysicae*, **6**, 595-600.
- Flueck, J.A., W.L. Woodley, A.G. Barnston, and T.J. Brown, 1986. A further assessment of treatment effects in the Florida Area Cumulus Experiment through guided linear modeling. *J. Climate and Applied Meteorology*, **25**, 546-564.

Books/Chapters/Editorial

- Jaffe, D.A., D.L. Peterson, S.M. McCaffrey, J. Hall, and T.J. Brown, 2021: Assessing the State of Smoke Science. In Peterson, D.L.; McCaffrey, S.M.; Patel-Weynand, T., eds. 202x. Wildland fire smoke in the United States: a scientific assessment. Springer, Dordrecht, The Netherlands, In Press.
- Liu, Y., W.E. Heilman, B.E. Potter, C.B. Clements, W.A. Jackson, N.H.F. French, S.L. Goodrick, A.K. Kochanski, N.K. Larkin, P.Lahm, T.J. Brown, J.P. Schwarz, S.M. Strachan, and F. Zhao, 2021: Smoke Plume Dynamics. In Peterson, D.L.; McCaffrey, S.M.; Patel-Weynand, T., eds. 202x. Wildland fire smoke in the United States: a scientific assessment. Springer, Dordrecht, The Netherlands, In Press.
- Peterson, J. M.C. Pitrolo, D.W. Schweizer, R.L. Striplin, L.H. Geiser, S.M. Holm, J.D. Hunter, J.M. Croft, L.M. Chappell, P.W. Lahm, G.E. Amezcuita, T.J. Brown, R.G. Cisneros, S.J. Connolly, J.E. Halofsky, E.L. Loudermilk, K.M. Navarro, A.L. Nick, T.T. Procter, H.C. Provencio, T.Pusina, S.L. Stone, L.W. Tarnay, and C.D. West, 2021: Smoke Plume Dynamics. In Peterson, D.L.; McCaffrey, S.M.; Patel-Weynand, T., eds. 202x. Wildland fire smoke in the United States: a scientific assessment. Springer, Dordrecht, The Netherlands, In Press.
- Westerling, A.L., T.J. Brown, T. Schoennagel, T.W. Swetnam, M.G. Turner, T.T. Veblen, 2016: *Climate and Wildfire in U.S. Western Forests*. In Forest Conservation in the Anthropocene; V.A. Sample, R.P. Bixler, and C. Miller (Eds.), University Press of Colorado, Boulder, 43-56.
- Garfin, G., T. Brown, T. Wordell, and E. Delgado, 2016: The Making of National Seasonal Wildfire Outlooks. In *Climate in Context*, Wiley, A.S. Parris, G.M. Garfin, K. Dow, R. Meyer, S.L. Close (Eds.), 143-171.
- Westerling, A., T. Brown, T. Schoennagel, T. Swetnam, M. Turner, T. Veblen, 2014: *Climate and Wildfire in U.S. Western Forests*. USDA Forest Service General Technical Report RMRS-P-71, pp. 81-102.
- Brown, H. E., A. C. Comrie, D. M. Drechsler, C. M. Barker, R. Basu, T. Brown, A. Gershunov, A. M. Kilpatrick, W. K. Reisen, and D. M. Ruddell, 2013: "Human Health." In *Assessment of Climate Change in the Southwest United States: A Report Prepared for the National Climate Assessment*, edited by G. Garfin, A. Jardine, R. Merideth, M. Black, and S. LeRoy, 312–339. A report by the Southwest Climate Alliance. Washington, DC: Island Press.
- Chapter 2 (Freshwater and Drought on Pacific Islands) Contributor: *Climate Change and Pacific Islands: Indicators and Impacts Report for the 2012 Pacific Islands Regional Climate Assessment (PIRCA)*, Eds. V.W. Keener, J. J. Marra, M. L. Finucane, D. Spooner, M. H. Smith, 199 pp.
- Miller, C., J. Abatzoglou, T. Brown, and A. Shyphard, 2011: Chapter 10. Wilderness Fire Management in a Changing Environment. *The Landscape Ecology of Fire*. Springer, 269-294.

Wain, A., G. Mills, L. McCaw, and T. Brown, 2008: Managing smoke from wildfires and prescribed burning in southern Australia. Book chapter in *Forest Fires and Air Pollution*, Elsevier Series "Developments in Environmental Science", 535-550.

Brown, T.J., and P.W. Mielke, Jr., (Eds.) 2000: *Statistical Mining and Data Visualization in Atmospheric Sciences*. Kluwer Academic Publishers, 80 pp.

Lingle, C.S. and T.J. Brown, 1987. A subglacial aquifer bed model and water pressure-dependent basal sliding relationship for a west Antarctic ice stream. In: Van der Vee, C.J. and Oerlemans, J. (eds.), *Dynamics of the West Antarctic Ice Sheet*, 249-285.

Conference Papers/Presentations

- Pierce, D.W, D.R. Cayan, and T.J. Brown, 2021: A Recent Increase in Extreme Low Relative Humidity Hours in the Southwestern U.S. American Geophysical Union Fall Meeting, 13-17 December 2021, New Orleans and virtual (poster).
- Brown, T., 2021: Achieving science for society – A personal voyage. 1st Youth Earth and Environmental Science Conference, Virtual, 30 October 2021, (Invited).
- Wall, T., and T. Brown, 2021: Building the capacity of people to use the new drought.gov. Fourth National Cohesive Wildland Fire Management Strategy Workshop, Virtual, 4-7 October 2021.
- Brown, T., 2021: The Fire and Smoke Model Evaluation Experiment. DRI Science Distilled, Virtual, 15 September 2021, (Invited).
- Brown, T., 2021: A mine of wildfire. National Association of Abandoned Mine Land Programs, Virtual, 13 September 2021, (Invited Keynote).
- Brown, T., 2021: A perspective on wildfire. Environmental Defense Fund, Virtual, 4 September 2021, (Invited).
- Brown, T., 2021: The timeline of climate, weather, and fire. Living with Fire webinar, Virtual, 10 June 2021, (Invited).
- Brown, T., and D. McEvoy, 2021: Climate change attribution of nighttime fire behavior. 13th Symposium on Fire and Forest Meteorology, American Meteorological Society, Virtual, 11-13 May 2021.
- Lindley, T.T., D.C. Daily, and T.J. Brown, 2021: A ‘domino fall’ guidance process linking climate to strategic seasonal actions for fire operations in Oklahoma. 13th Symposium on Fire and Forest Meteorology, American Meteorological Society, Virtual, 11-13 May 2021, 7 pp.
- Brown, T., 2021: Addressing our wildland fire weather needs. American Meteorological Society Washington Forum, Virtual, 26-29 April 2021, (Invited).
- Brown, T., 2021: Wildland fire-climate-weather connections and management planning, policy, and interfacing between science and decision-making, Operation Sierra Storm Broadcast Meteorology workshop, South Lake Tahoe, NV, 26 January 2021, (Invited).
- Brown, T. J., 2021: The 2020 Wildfire Season: 420,002,020th year of biomass burning on Earth, American Meteorological Society Annual Meeting: Virtual, 15 January 2021, (Invited).
- Brown, T., Clark, S., G. Mills, S. Harris, and J.T. Abatzoglou, 2020: In 5 minutes - Downscaled GCM climate projections of fire weather over Victoria, Australia. Part 1: Evaluation of the MACA technique and Part 2: A multi-model ensemble of 21st century trends. DRI Lightning lunch: wildland fire, smoke, and human dimensions of fire, 12 Jan 2021.
- Brown, T., 2020: Climate Information and the Wildland Fire Community: A Services Perspective. American Geophysical Union Fall Meeting oral presentation, 10 December 2020, (Invited).

- Brown, T., N.K. Larkin, M. Fearon, D. Podnar, G. McCurdy, J. Dubowy, R. Solomon, and P. Lahm, 2020: Current operational products for smoke management (Parts 1 & 2). IAWF 3rd International Smoke Symposium, Virtual Conference, 23 April 2020.
- Brown, T. J., 2020: The 2019 Wildfire Season: 420,002,019th year of biomass burning on Earth, American Meteorological Society Annual Meeting: Boston, MA 12-16 January 2020, (Invited).
- Brown, T., 2019: What does wildfire resilience look like in an extreme world? Keynote presentation, Wildland Fire Canada 2019, Ottawa, Canada, 18–21 November 2019.
- Brown, T., T. Wall, T. Parkinson, and N. Kimutis, 2019: Understanding how firefighters make decisions in the field. 7th International Wildland Fire Conference 2019, Campo Grande, Brazil, 28 October – 1 November 2019.
- Brown, T., 2019: Extremes of Fire in a Changing World. ILS Bermuda Convergence 2019, Hamilton, Bermuda, 10 October 2019.
- Brown, T., 2019: The Role of Applied Climatologists and Wildland Fire Communication. American Association of State Climatologists, Santa Rosa, CA, 25 June 2019.
- Brown, T., 2019: Bringing Fire and Soil Moisture Worlds Together, Together. Soil Moisture and Wildfire Prediction Workshop, Albuquerque, NM, 29 Apr 2019.
- Brown, T., D. McEvoy, T. Parkinson, N. Nauslar, and N. Kimutis, 2019: Trend of Increasing Nighttime Temperature and Its Relation to Fire Behavior. 6th International Fire Behavior and Fuels Conference Albuquerque, NM, 2 May 2019.
- Brown, T., 2019: A Bricolage of Fire Research (CFA Burwood Edition). Country Fire Authority, Victoria, Australia, 18 March 2019.
- Brown, T., 2019: Climatology and Fire Danger, Lesson 8. Lecture for Advanced National Fire Danger Rating System, National Advanced Fire and Resource Institute, Tucson, AZ, 21 February 2019.
- Brown, T. J., 2019: The 2018 Wildfire Season: 420,002,018th year of biomass burning on Earth, American Meteorological Society Annual Meeting: Phoenix, AZ, 7-10 January 2019, (Invited).
- Zou, Y., S.M. O'Neill, N.K. Larkin, E. Alvarado, R. Solomon, and T. Brown, 2018: PM_{2.5} Source Apportionment Analysis for the 2018 Large Wildfires in California. American Geophysical Union Fall Meeting, Washington, DC, 10-14 December 2018.
- Brown, T., and T. Wall, 2018: Red Flag Warnings – do they adequately warn the public and support resource management. IAWF 15th International Wildland Fire Safety Summit and 5th Human Dimensions of Wildland Fire Conference, Asheville, NC, 10-14 December 2018.
- Brown, T., 2018: Some DRI briefing things for the Predictive Services annual meeting. Predictive Services annual meeting, Boise, ID, 5-6 December 2018.
- Brown, T., 2018: The 2017 (and 2018) California extreme fires – A local perspective seen globally. Plenary presentation, VIII International Conference on Forest Fire Research, Coimbra, Portugal, 9-16 November 2018. (Invited)

- Kochanski, A., D.V. Mallia, M. Fearon, T. Brown, J. Mandel, J.K. Vaughan, 2018: Do we need weather prediction models to account for local weather modifications by wildland fires? *Advances in Forest Fire Research*, D. X. Viegas (Ed.), University of Coimbra Press, VIII International Conference on Forest Fire Research, Coimbra, Portugal, 9-16 November 2018., 9 pp. (in press)
- Brown, T., 2018: Some DRI briefing things for FIRESCOPE. San Diego, CA, 7 November 2018.
- Brown, T., 2018: Changing Climate, Changing Times. California-Nevada-Hawaii Forest Fire Council, Truckee, CA, 24 October 2018.
- Brown, T., 2018: Wildfire and Health. Citizens Climate public meeting, Carson City, NV, 10 October 2018.
- Wall, T., T. Brown, and N. Kimutis, 2018: Red Flag Warning criteria. National Weather Service Fire Weather Workshop, Boise, ID, 18-20 September 2018.
- Brown, T., 2018: History of the Red Flag Warning. National Weather Service Fire Weather Workshop, Boise, ID, 18-20 September 2018.
- Brown, T., 2018: Season fire update. NOAA Climate Science and Services Monthly Climate Update. Webinar, 16 August 2018.
- Brown, T., 2018: Wildland Fire Trends in the U.S. American Association for the Advancement of Science, Webinar, 13 August 2018.
- Kochanski, A., D.V. Mallia, J. Mandel, S. Schranz, M. Fearon, and T. Brown, 2018: Simulating Plume Rise, Dispersion and Radiative Smoke Impacts in a Coupled Fire-Atmosphere Framework. IAWF Fire Continuum Conference, Missoula, MT, 21-25 May 2018.
- Brown, T., and T. Wall, 2018: The NIDIS Drought and Wildfire Nexus. IAWF Fire Continuum Conference, Missoula, MT, 21-25 May 2018.
- Mallia, D.V., A.K. Kochanski, M.G. Fearon, T.J. Brown, J. Mandel, 2018: Does wildfire smoke impact local inversions? American Meteorological Society 12th Fire and Forest Meteorology Symposium, Boise, ID, 15-17 May 2018.
- Brown, T., D. McEvoy, T. Wall, and M. Hobbins, 2018: Connecting Drought and Wildfire. American Meteorological Society 12th Fire and Forest Meteorology Symposium, Boise, ID, 15-17 May 2018.
- McEvoy, D., T. Brown, J. Huntington, T. Wall, K. VanderMolen, M. Hobbins, and M. Svoboda, 2018: Update: Establishing Relationships between Drought and Wildfire Danger Indices for Improved Wildfire Risk Management. California FIRESCOPE, 9 May 2018.
- Brown, T., 2018: What would a North American drought-fire nexus look like? 2018 North American Drought Monitor Forum, Calgary, Alberta, Canada, 1 May 2018.
- Brown, T., 2018: Climate, Weather and Smoke Tools for Prescribed Fire. Nevada Prescribed Fire Alliance, Reno, NV, 18 April 2018.
- Brown, T., 2018: Forest Fires and Climate Change in the U.S. 3rd Annual Air Pollution

- and Climate Change Symposium, Fresno, CA, 7 April 2018.
- Brown, T., S. Harris, and G. Mills, 2018: Victoria Fire Weather Climatology Dataset. Country Fire Authority, Victoria, Australia, 13 March 2018.
- Brown, T., S. Harris, and G. Mills, 2018: Victoria Fire Weather Climatology Dataset. Predictive Services Group, Victoria, Australia, 6 March 2018.
- Brown, T., and N. Oakley, 2018: Recap of December 2017 Southern California Wildfires. California-Nevada Drought Early Warning System 2018 Southern California Winter Status Update, San Diego, CA, 7 February 2018.
- Brown, T., 2018: Climate Tools for Fire Behavior. Webinar lecture for S590 – Advanced Fire Behavior, National Advanced Fire and Resource Institute, Tucson, AZ, 24 January 2018.
- McEvoy, D.J., Wall, T.U., Brown, T.J., Huntington, J.L., Hobbins, M., Svoboda, M., 2018: Establishing Relationships between Drought and Wildfire Danger Indices for Improved Wildfire Risk Management. American Meteorological Society Annual Meeting, Austin, TX, 7-11 January 2018.
- Brown, T. J., 2018: Environmental and Social Factors That Led to the October 2017 Northern California Firestorm (and then again in Southern California in December), American Meteorological Society Annual Meeting: Austin, TX, 7-11 January 2018, (Invited).
- Brown, T. J., 2018: The 2017 Wildfire Season: 420,002,017th year of biomass burning on Earth, American Meteorological Society Annual Meeting: Austin, TX, 7-11 January 2018, (Invited).
- French, N., R. Ottmar, T. Brown, N. Larkin, 2017: Fire and Smoke Model Evaluation Experiment (FASMEE): Coordination of a study to improve smoke modeling for fire operations within the United States. American Geophysical Union annual meeting, December 2017.
- Brown, T., and T. Wall, 2017: NDAWN Reno, NV sub-regional workshop. 7 December 2017.
- Brown, T., and T. Wall, 2017: Understanding the role of past, current and future drought information in wildland fire management. Fire circle workshop 7th Association of Fire Ecology International Fire Congress, Orlando, FL, 29 November 2017.
- Brown, T., and T. Wall, 2017: Regional Climate Centers Strategic Goals, Kansas City, MO, 7-8 November 2017.
- Brown, T.J., 2017: DRI activity update briefing for California FIRESCOPE. 16 November 2017.
- Brown, T. J., 2017: NOAA West Watch Wildfire Update: 420,002,017th year of biomass burning on Earth (California Edition), NOAA West Collaboration Team Webinar, 24 October 2017.
- Brown, T., and N. Oakley, 2017: NWS Pacific Region Climate Services: Planning for the Future. Honolulu, HI, 30-31 August 2017.

- Brown, T. J., 2017: NOAA West Watch Wildfire Update: 420,002,017th year of biomass burning on Earth, NOAA West Collaboration Team Webinar, 22 August 2017.
- Brown, T., 2017: Kelly Redmond Tribute: Observations of an Extreme Climatologist. American Meteorological Society 23rd Conference on Applied Climatology, Asheville, NC, 26-28 June 2017.
- Brown, T., and T. Wall, 2017: Wildfire +Drought. California-Nevada Drought Early Warning System First Annual Coordination Workshop, Reno, NV 21-22 June 2017.
- Brown, T., and T. Wall, 2017: NDAWN Vancouver, WA sub-regional workshop. 1 June 2017.
- Brown, T., and T. Wall, 2017: NDAWN Missoula, MT sub-regional workshop. 31 May 2017.
- Brown, T., and T. Wall, 2017: Understanding the role of past, current and future drought information in the implementation of the Cohesive Strategy. International Association of Wildland Fire National Cohesive Wildland Fire Management Strategy Workshop, Reno, NV, 27 April 2017.
- Brown, T., 2017: How to Organize a Very Large Field Experiment. Seminar presentation School of Earth Atmosphere and Environment, Faculty of Science, Monash University, Clayton, Victoria, 7 April 2017.
- Brown, T., 2017: Climatology and Fire Danger, Lesson 7. Lecture for Advanced National Fire Danger Rating System, National Advanced Fire and Resource Institute, Tucson, AZ, 8 March 2017.
- Brown, T., and T. Wall, 2017: Changes in Fire Extremes and Beyond Firefighter Experience. 14th International Wildland Fire Safety Summit, Barcelona, Spain, 31 January 2017.
- Brown, T. J., 2017: The 2016 Wildfire Season: 420,002,016th year of biomass burning on Earth, American Meteorological Society Annual Meeting: Seattle, WA, January 22-26, 2017.
- Brown, T., 2016: A fire place for climate: the convergence of fire, smoke and people. Plenary invited talk, IAWF 2nd International Smoke Symposium, Long Beach, CA, 17 November 2016.
- Brown, T., T. Wall, and P. Lahm, 2016: The nexus of drought, smoke and societal impacts. IAWF 2nd International Smoke Symposium, Long Beach, CA, 16 November 2016.
- Brown, T., R. Ottmar, S. Larkin and N. French, 2016: FASMEE: Fire and Smoke Model Evaluation Experiment. Invited Seminar – Washington State University, Pullman, WA, 9 November 2016.
- Brown, T., G. Mills, S. Harris, D. Podnar, H. Reinbold, and M. Fearon, 2016: Utilizing hi-resolution gridded fire climate and danger data for risk assessment. Wildland Fire Canada 2016, Kelowna, BC, Canada, 27 October 2016.
- Brown, T., G. Mills, S. Harris, D. Podnar, H. Reinbold, and M. Fearon, 2016: Hi-

- resolution fire weather and climatology from dynamical downscaling. Invited Seminar – San Jose State University, 27 September 2016.
- Watts, A. C., Dickinson, M., Brown, T. J., Ottmar, R. D., Larkin, N. K., French, N., Pritchard, S. J., 2016: FASMEE (Fire and Smoke Model Evaluation Experiment) and UAS, Invited talk at the NASA/U.S. Forest Service Tactical Fire Remote Sensing Advisory Committee Spring Meeting: Mountain View, CA, May 25, 2016.
- Brown, T., and T. Wall, 2016: Utilizing drought science and information in wildfire management decision context. IAWF 5th International Fuels and Fire Behavior Conference, Portland, OR, 12-14 April 2016.
- Brown, T., J. Huntington, and D. McEvoy, 2016: The spatialness of drought and fire shaped by a cloud. Monash University, 17 March 2016.
- Brown, T., 2016: Drought, fire and climate change. Glen Gerberg Weather and Climate Summit, Breckenridge, CO, 19 January 2016.
- Brown, T., 2016: The 2015 Wildfire Season: 420,002,015th year of biomass burning on Earth. American Meteorological Society Annual Meeting, Phoenix, AZ, 12 January 2016.
- Brown, T., M. Fearon, and G. McCurdy, 2016: Assessing the quality of wind observations using a regional scale model. American Meteorological Society Annual Meeting, New Orleans, LA, 14 January 2016.
- Brown, T., K. Short, K. Riley, M. Jolly, P. Freeborn, N. Nauslar, 2015: What is fire season and how long is it? 6th International Fire Ecology and Management Congress, San Antonio, TX, 19 Nov 2015.
- Brown, T., R. Ottmar, and S. Larkin, 2015: Fire and Smoke Model Evaluation Experiment (FASMEE). Invited webinar presentation. The Canadian Interagency Forest Fire Centre, 28 October 2015.
- Brown, T., T. Wall, and N. Nauslar, 2015: Fire Extremes and the Triangle of Climate, Fuels, and People, 6th International Wildland Fire Conference, Pyeonghchang, Korea, 13 Oct 2015.
- Harris, S., G. Mills, T. Brown, D. Podnar, M. Fearon, and H. Reinbold, 2015: Victoria fire weather climatology dataset. Proceedings of the Research Forum at the Bushfire and Natural Hazards CRC & AFAC conference, Adelaide, Australia, 1 September 2015.
- Brown, T., 2015: A Perspective on Climate, Drought, Wildfire and Resiliency. Invited presentation. Oklahoma Emergency Management/Association Annual Conference, Norman, OK, 19 August 2015.
- Pulwarty, R., and T. Brown, 2015: Climate, drought and wildland fire policy. Colorado State University Wildland Fire and Smoke Workshop, Longmont, CO, 13 August 2015.
- Brown, T., 2015: Fire and Smoke Model Evaluation Experiment (FASMEE). Invited presentation. Colorado State University Wildland Fire and Smoke Workshop, Longmont, CO, 13 August 2015.
- Brown, T., 2015: Drought and Wildland Fire Policy. Invited presentation. Western States

- Drought Coordinators and Emergency Managers Meeting, Seattle, WA, 21 July 2015.
- Brown, T., 2015: Wildland Fire Potential Outlook 2015. Invited presentation. Western States Drought Coordinators and Emergency Managers Meeting, Seattle, WA, 21 July 2015.
- Watts, A.C., L. Fenstermaker, K. McGwire, E. Wilcox, and T. Brown, 2015. Fire and UAS projects at the Desert Research Institute. Presentation at University of British Columbia, Okanagon, 18 June 2015.
- Brown, T., G. Mills, S. Harris, D. Podnar, M. Fearon, and H. Reinbold, 2015: Hi-resolution fire weather and climatology from dynamical downscaling. ICBFR, Alghero, Italy, 28 May 2015.
- Brown, T., G. Mills, S. Harris, D. Podnar, M. Fearon, and H. Reinbold, 2015: Hi-resolution fire weather and climatology from dynamical downscaling. American Meteorological Society 11th Fire and Forest Meteorology Symposium, Minneapolis, MN, 6 May 2015.
- Wall, T.U., T. J. Brown, and N. Nauslar, 2015: Fire Extremes and the Triangle of Fire, Fuels, and People – Part 1. International Association of Wildland Fire Human Dimensions Conference, Boise, ID, 20-23 April 2015.
- Brown, T.J., T.U. Wall, and N. Nauslar, 2015: Fire Extremes and the Triangle of Fire, Fuels, and People – Part 2. International Association of Wildland Fire Human Dimensions Conference, Boise, ID, 20-23 April 2015.
- Wall, T.U., T.J. Brown, and N. Nauslar, 2015: Fire Extremes and the Triangle of Fire, Fuels, and People – Part 1. International Association of Wildland Fire Human Dimensions Conference, Boise, ID, 20-23 April 2015.
- Brown, T., G. Mills, S. Harris, D. Podnar, M. Fearon, and H. Reinbold, 2015: Hi-resolution fire weather and climatology from dynamical downscaling. Seminar presentation School of Earth Atmosphere and Environment, Faculty of Science, Monash University, Clayton, Victoria, 27 March 2015.
- Brown, T., G. Mills, S. Harris, D. Podnar, M. Fearon, and H. Reinbold, 2015: Finally, A 40-year mesoscale gridded fire climatology for Victoria. Project briefing for the Victoria Department of Environment and Primary Industries, 7 April 2015.
- Brown, T., 2015: Climatology and Fire Danger, Lesson 8. Lecture for Advanced National Fire Danger Rating System, National Advanced Fire and Resource Institute, Tucson, AZ, 11 March 2015.
- Hall, B.L., and T.J. Brown, 2015: An hourly operational fire danger monitoring tool, 2015 Midwest Fire Conference, Dubuque, IA, 17-19 February 2015.
- Brown, T., 2015: Review of Climate Change Impacts in the West and some thoughts about managing them. Invited presentation. Western States Urban Forestry, 4 February 2015.
- Brown, T., 2015: The 2014 Wildfire Season: 420,002,014th year of biomass burning on Earth. American Meteorological Society Annual Meeting, Phoenix, AZ, 6 January 2015.

- Brown, T.J., K.T. Redmond, T.U. Wall, D. Simeral, N.S. Oakley, G. McCurdy, M. Breckner, A.J. Wolff, G. Kelly, and B. Daudert, 2014. Providing Western Region Climate Services: Perspectives from the Western Regional Climate Center. American Geophysical Union, 15-19 December 2014.
- Oakley, N.S., K.T. Redmond, T.U. Wall, and T.J. Brown, 2013: Improving the Flow of Climate Information in the West. American Geophysical Union, 15-19 December 2014.
- Brown, T., 2014: Co-Production of Fire Knowledge – Perspectives from a western regional climate center and RISA. Invited presentation at NOAA Headquarters, 10 December 2014, Silver Spring, MD.
- Brown, T.J., T.U. Wall, and N. Nauslar, 2014: Extremes in Fire – The Intersection of Climate, Fuels and People. VII International Conference on Forest Fire Research, Coimbra, Portugal, 17 -20th November 2014.
- Brown, T., G. Mills, S. Harris, D. Podnar, H. Reinbold, and M. Fearon. A hi-resolution 40-year gridded fire weather/danger climatology for Victoria, Australia. VII International Conference on Forest Fire Research, Coimbra, Portugal, 17 -20th November 2014.
- Garfin, G., T. Wall, H. Hartmann, J. Brugger, and T. Brown, 2014: Climate Change Adaptation Planning in the Great Basin. University of Arizona College of Agriculture & Life Sciences Poster Forum, 10 November 2014, Tucson, AZ.
<http://research.cals.arizona.edu/events/poster-forum/>
- Brown, T., 2014: Wildfire and Air Quality. Tahoe Climate Science Symposium, 13 November 2014, Incline Village, NV.
- Brown, T., N. Larkin, and P. Lahm, 2014: The Current State and Future of Wildfire Smoke and Air Quality Modeling. American Association for Aerosol Research 33rd Annual Conference, 20-24 October 2014, Orlando, FL.
- Brown, T.J., T.U. Wall, and N. Nauslar, 2014: Extremes in Fire – The Intersection of Climate, Fuels and People. Wildfire Canada 2014 Conference, 7-9 October 2014.
- Brown, T., K. Redmond, M. Breckner, B. Daudert, G. McCurdy, N. Oakley, D. Simeral, 2014: The Role of a Regional Climate Center in Complex Terrain. American Meteorological Society 16th Conference on Mountain Meteorology, 18-22 August 2014, San Diego, CA.
- Albano, C.M., M.D. Dettinger, M.M. McCarthy, D.A. Cox, T.J. Brown, 2014: ARkStorm@Tahoe: Addressing social and ecological resiliency to extreme winter storm events in the Sierra Nevadas. Ecological Society of America Annual Meeting, 10-15 August 2014, Sacramento, CA.
- Brown, T., 2014: Meteorological Data for Fire Danger Products. GOF-C-GOLD IT; 30 July 2014, Greenbelt, MD.
- Brown, T., N. Larkin, and P. Lahm, 2014: How Applied Climate Fits in with the Management of Wildfire Smoke Health Impacts. American Meteorological Society 21st Conference on Applied Climatology, 9-13 June 2014, Westminster, CO.
- Wall, T.U., T.J. Brown, and T. Sexton, 2014: Extremes in Fire – The Intersection of Climate, Fuels and People. Large Wildland Fires – Social, Political and Ecological

- Effects Conference, Missoula, MT, 19-23 May 2014.
- Brown, T., 2014: Seasonal Wildfire Outlook 2014. California Drought Forum, 15 May 2014, Sacramento, CA.
- Brown, T., 2014: Operation and Research Activities at CEFA. Invited presentation Bureau of Meteorology Regional Office, Hobart, Tasmania, Australia, 27 March 2014.
- Brown, T., G. Mills, S. Harris, D. Podnar, H. Reinbold, and M. Fearon, 2014: Fire Weather Climatology of Victoria. Project briefing for the Australia Country Fire Authority, 25 March 2014.
- Brown, T., G. Mills, S. Harris, D. Podnar, H. Reinbold, and M. Fearon, 2014: Fire Weather Climatology of Victoria. Project briefing for the Victoria Department of Environment and Primary Industries, 24 March 2014.
- Brown, T., M. Fearon, and G. Curcio, 2014: Establishing a National Standard Methodology for Operational Mixing Height Determination. Bureau of Meteorology Headquarters, Melbourne, Australia, 11 March 2014.
- Brown, T.J., 2014: U.S. and Global Wildfire Impacts in 2013. American Meteorological Society Annual Meeting, Atlanta, GA, 4 February 2014.
- Brown, T., 2014: Seasonal Forecasts, Downscaling and Gridded Climatology. Invited Lecture University of Sassari, Sassari, Sardinia, Italy, 24 January 2014.
- Brown, T., 2014: S490 Lecture: Critical Fire Weather Patterns. US Forest Service Southern Region Headquarters, 14 January 2014.
- Brown, T., 2014: S490 Lecture: Atmospheric Stability. US Forest Service Southern Region Headquarters, 14 January 2014.
- Redmond, K., and T. Brown, 2013: Overview of Climate Change and Effects on Western Great Basin. Washoe County Regional Resiliency Preparedness Study Meeting, 20 December 2013.
- Mills, G., T. Brown, S. Harris, D. Podnar, and H. Reinbold. A 40-year mesoscale gridded fire weather climatology for Victoria. Proceedings 20th International Congress on Modelling and Simulation, Adelaide, Australia, 1-6 December 2013, 207-213.
- Mills, G., T. Brown, S. Harris, D. Podnar, and H. Reinbold. A 40-year mesoscale gridded fire weather climatology for Victoria. 20th International Congress on Modelling and Simulation, Adelaide, Australia, 1-6 December 2013.
- Brown, T., C. Clements, and S. Larkin, 2013: Results from the JFSP Smoke Model Validation Workshop. IAWF International Smoke Symposium, College Park, MD, 24 October 2013.
- Brown, T., T. Jackman, G. Achtemeier, and S. Goodrick, 2013: Bringing PB-Piedmont to Users: Web Implementation of a Surface Drift Smoke Model. IAWF International Smoke Symposium, College Park, MD, 23 October 2013.
- Fearon, M., T. Brown, and G. Curcio, 2013: Establishing a National Standard Methodology for Operational Mixing Height Determination. IAWF International Smoke Symposium, College Park, MD, 22 October 2013.

- Tarnay, L., D. Schweizer, R. Cisneros, S. Raffuse, T. Brown, and S. Larkin, 2013: Do We Always Need Dispersion Models? Empirical Airshed Capacity Values for Prescribed and Wildland Fire in the Sierra Nevada, California. IAWF International Smoke Symposium, College Park, MD, 22 October 2013.
- Brown, T., 2013: Fire Weather and Smoke Management Forecasting in California and Nevada – The Co-Production of Science and Operations. U.C. Davis conference on Traversing New Terrain in Meteorological Modeling, Air Quality and Dispersion, Davis, CA, 12 September 2013.
- Brown, T., E. Delgado, 2013: Perspectives in Seasonal Fire Forecasting. 4th International Fire Behavior and Fuels Conference, St. Petersburg, Russia, 1-4 July 2013.
- Brown, T., G. Mills, and S. Harris, 2013: Gridded Fire Weather and Fire Danger Dataset for Victoria. Fire, Weather and Risk Workshop, Busselton, Western Australia, 15 May 2013.
- Brown, T., G. Mills, and S. Harris, 2013: An update on the gridded fire weather climatology dataset for Victoria. Project briefing for the Victoria Department of Environment and Primary Industries, 8 May 2013.
- Brown, T., 2013: How to do Wildfire Research Episode 4 - The CEFA Experience. Monash University seminar, 1 May 2013.
- Brown, T., 2013: Seasonal Forecasting for the Global EWS. GOF-C-GOLD IT, Wageningen, The Netherlands, 16 April 2013.
- Oakley, N.S., K.T. Redmond, T.U. Wall, and T.J. Brown, 2013: Improving the Flow of Climate Information in the West. EPSCoR annual meeting, Las Vegas, 27 March 2013.
- Brown, T., N. Larkin, and M. Rorig, 2013: Improving meteorological data and forecasts for prescribed fire burn day decisions in the Lake Tahoe Basin. Final SNPLMA Project Briefing, Lake Tahoe, 8 March 2013.
- Brown, T., 2013: Adaptation to Wildfires in the West: Linking Science to Action. National Adaptation Forum, Denver, CO, 3 March 2013.
- Brown, T., 2013: Evaluating Fire Weather Stations for Fire Danger Rating Areas, Lesson 13. Lecture for Advanced National Fire Danger Rating System, National Advanced Fire and Resource Institute, Tucson, AZ, February 2013.
- Brown, T., 2013: Climatology and Fire Danger, Lesson 7. Lecture for Advanced National Fire Danger Rating System, National Advanced Fire and Resource Institute, Tucson, AZ, February 2013.
- Oakley, N.S., K.T. Redmond, T.U. Wall, and T.J. Brown, 2013: Current and Future Partnerships for Climate-Related Decision Making in the Great Basin. Great Basin Consortium, Boise, Id, 13 Jan 2013.
- Brown, T.J., and E. Delgado, 2013: Monthly to Seasonal in Support of Wildland Fire Decision-Making. American Meteorological Society Annual Meeting, Austin, TX, 10 January 2013.

- Brown, T.J., 2013: U.S. and Global Wildfire Impacts in 2012. American Meteorological Society Annual Meeting, Austin, TX, 8 January 2013.
- Brown, T., 2012: Wildfire Research at the Desert Research Institute. Invited Lecture University of Sassari, Sassari, Sardinia, Italy, 16 December 2012.
- Brown, T., 2012: Lecture 1: Critical Fire Weather Patterns. Invited Lecturer Series - Master PIROS - Wildfire Planning, Prevention and Fighting in Mediterranean Areas, Department of Science of Nature and Environmental Resources, University of Sassari, December 2012.
- Brown, T., 2012: Lecture 2: Atmospheric Stability. Invited Lecturer Series - Master PIROS - Wildfire Planning, Prevention and Fighting in Mediterranean Areas, Department of Science of Nature and Environmental Resources, University of Sassari, December 2012.
- Brown, T., 2012: Lecture 3: Interaction Between Fire and Atmosphere. Invited Lecturer Series - Master PIROS - Wildfire Planning, Prevention and Fighting in Mediterranean Areas, Department of Science of Nature and Environmental Resources, University of Sassari, December 2012.
- Brown, T., 2012: Lecture 4: Smoke and Air Quality. Invited Lecturer Series - Master PIROS - Wildfire Planning, Prevention and Fighting in Mediterranean Areas, Department of Science of Nature and Environmental Resources, University of Sassari, December 2012.
- Brown, T., 2012: Lecture 5: Dead and Live Moisture Dynamics. Invited Lecturer Series - Master PIROS - Wildfire Planning, Prevention and Fighting in Mediterranean Areas, Department of Science of Nature and Environmental Resources, University of Sassari, December 2012.
- Brown, T., 2012: Lecture 6: Climatology and Fire Danger Rating. Invited Lecturer Series - Master PIROS - Wildfire Planning, Prevention and Fighting in Mediterranean Areas, Department of Science of Nature and Environmental Resources, University of Sassari, December 2012.
- Brown, T., 2012: Lecture 7: Climatology Tools for Long-Term Assessment. Invited Lecturer Series - Master PIROS - Wildfire Planning, Prevention and Fighting in Mediterranean Areas, Department of Science of Nature and Environmental Resources, University of Sassari, December 2012.
- Brown, T., J. Abatzoglou, B. Hall and M. Jolly, 2012: Three New Fire Weather/Climate Datasets for Decision-Support and Research. 5th International Fire Ecology and Management Congress, Portland, OR, 3-7 December 2012.
- Brown, T., 2012: CEFA Update – FIRESCOPE Fall Meeting. Sacramento, CA, 28 November 2012.
- Brown, T., E. Delgado, 2012: Monthly to Seasonal Fire Forecasting in the U.S. Wildland Fire Canada 2012, Kananaskis, Alberta, Canada, October 2012.
- Brown, T. RCC Climate Services. Presentation to National Weather Service Southern Region Headquarters, 13 August 2012.

- Brown, T., 2012: The Climate Data Record and Climate Applications. Panel presentation, Climate Data Record Program's Annual Conference, Asheville, NC, August 2012.
- Brown, T., 2012: Climate Variability and Impacts on the West. Council of State Governments – West, Edmonton, Alberta, Canada, 22 July 2012.
- Brown, T., 2012: Climate Tools for Fire Behavior, Lesson 17. Lecture for S590 – Advanced Fire Behavior Interpretation, National Advanced Fire and Resource Institute, Tucson, AZ, March 2012.
- Brown, T., 2012: Fire Weather and Climate Research Activities at the Desert Research Institute. Lecture at Monash University, Victoria, Australia, February 2012.
- Brown, T., 2012: Wildfires of 2011. Weather Impacts 2011, American Meteorological Society Annual Meeting, New Orleans, LA, 23-26 January 2012.
- Brown, T. and C. Kolden, 2012: Climatology Tools for Long-Term Assessment. Portland, OR, 2012 PNW Fire Behavior Workshop, 20 Jan 2012.
- Brown, T., C. Kolden, and J. Abatzoglou, 2011: Assessing fuels treatments in southern California national forests and WUI in the context of climate change. International Conference on Fire Behavior and Risk, Alghero, Italy, October 2011.
- Brown, T., J. Abatzoglou, 2011: Climate and very large fires. AMS 9th Symposium on Fire and Forest Meteorology, Palm Springs, California, October 2011.
- Brown, T., G. McCurdy, M. Fearon, and J. Horel, 2011: What is the appropriate RAWS network? AMS 9th Symposium on Fire and Forest Meteorology, Palm Springs, California, October 2011.
- Larkin, N.K., T.J. Brown, P. Lahm, S. Raffuse, M. Rorig, T. Strand, A. Healy, R. Solomon, and T. Zimmerman, 2011: Wildland Fire Decision Support System air quality tools. AMS 9th Symposium on Fire and Forest Meteorology, Palm Springs, California, October 2011.
- Abatzoglou, J.T., C. A. Kolden, T. J. Brown, and K. L. Riley, 2011: Towards a processed-based understanding of climate-fire relationships of the western United States. AMS 9th Symposium on Fire and Forest Meteorology, Palm Springs, California, October 2011.
- Hall, B.L., and T.J. Brown, 2011: Development of a gridded surface weather dataset for wildfire analysis and planning. AMS 9th Symposium on Fire and Forest Meteorology, Palm Springs, California, October 2011.
- Brown, T., G. Owen, J. McLeod, C. Kolden, and D. Ferguson, 2011: Assessing climate services in wildland fire management: A social network analysis of the southwest. AMS 19th Conference on Applied Climatology, Asheville, NC, July 2011.
- Brown, T., and C. Kolden, 2011: Developing mitigation and adaptation strategies from co-production of knowledge: an approach for fire scientists and managers. 5th International Wildfire Conference, Sun City, South Africa, May 2011.
- Abatzoglou, J., C. Kolden, and T. Brown, 2011: Observed changes in fire danger across

- the western United States. Annual meeting of the Association of American Geographers, Seattle, Washington, April 2011.
- Brown, T., 2011: Regional Climate Center Provider and User Perspectives. 2011 AMS User Forum, Washington, DC, April 2011.
- Brown, T.J., J.T. Abatzoglou, and N.J. Nauslar, 2011: Megaclimate and very large fires. Conference on Exploring the Mega-Fire Reality, Tallahassee, Florida, November 2011.
- Falk, D.A., E.K. Heyerdahl, P.M. Brown, T.W. Swetnam, E.K. Sutherland, Z. Gedalof, L. Yocom, and T.J. Brown, 2010: Fire and climate variation in western North America from fire-scar and tree-ring networks, PAGES news, 18, 70-72.
- Brown, T., B. Potter, and C. Schranz, 2010: Views on Fire Meteorology Research in the United States. Proceedings of the VI International Conference on Forest Fire Research, Combra, Portugal, November 2010, 7 pp.
- Brown, T., B. Potter, and C. Schranz, 2010: Views on Fire Meteorology Research in the United States. Presentation at the VI International Conference on Forest Fire Research, Combra, Portugal, November 2010.
- Brown, T., S Larkin, and M. Rorig, 2010: Improving Meteorological Data and Forecasts for Prescribed Burn Day Decisions for the Lake Tahoe Basin, Tahoe Decision Support Symposium, Sierra Nevada College, November 2010.
- Abatzoglou J., C. Kolden, and T. Brown, 2010: The Confluence of Weather and Climate Stressors Contributing to the Fires of 1910. Proceedings of the 3rd Fire Behavior and Fuels Conference, Spokane, WA, October 2010, 7 pp.
- Brown, T., and J. Abatzoglou, 2010: The Climate of the Big Blowup. Proceedings of the 3rd Fire Behavior and Fuels Conference, Spokane, WA, October 2010, 12 pp.
- Larkin, S., T. Brown, T. Zimmerman, P. Lahm, and T. Strand, 2010: Integrating Air Quality Tools into the Wildland Fire Decision Support System (WFDSS-AQ). Presentation at the 3rd Fire Behavior and Fuels Conference, Spokane, WA, October 2010.
- Rorig, M., T. Strand, M. Moore, T. Brown, C Krull and S. Larkin, 2010: Measurements of Smoke Concentrations and Inversions in the Lake Tahoe Basin. Presentation at the 3rd Fire Behavior and Fuels Conference, Spokane, WA, October 2010.
- Kolden, C., J. Abatzoglou, and T. Brown, 2010: Identifying Trends in Climate and Fire Severity: Implications for Fire Management. Presentation at the 3rd Fire Behavior and Fuels Conference, Spokane, WA, October 2010.
- Abatzoglou J., C. Kolden, and T. Brown, 2010: The Confluence of Weather and Climate Stressors Contributing to the Fires of 1910. Presentation at the 3rd Fire Behavior and Fuels Conference, Spokane, WA, October 2010.
- Brown, T., and J. Abatzoglou, 2010: The Climate of the Big Blowup. Presentation at the 3rd Fire Behavior and Fuels Conference, Spokane, WA, October 2010.

- Brown, T., 2010: Climate and Weather Tools for Fire Management. Invited talk California-Nevada-Hawaii Fire Council meeting, South Lake Tahoe, CA, October 2010.
- Brown, T., 2010: Centering a U.S. Wildfire Response: Perspectives on the Second Decade of the 21st Century. Invited plenary lecture Wildland Fire Canada 2010 conference, Kitchener, Canada, October 2010.
- Brown, T., J. Abatzoglou, K. Martin, and G. Smith: 2010: Using Climate and Climate Change Information for Fire Management. Webinar presentation for the Wildland Fire Lessons Learned Center, September 2010.
- Brown, T., 2010: The Risk of Communicating Science to Wildfire Managers. Invited presentation at the Mountain Climate Research Conference, Blue River, OR, June 2010.
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