

Dr. Timothy J. Brown

Research Professor; Director, WRCC and CEFA
Division of Atmospheric Sciences, Desert Research Institute
2215 Raggio Parkway, Reno, NV 89512-1095

Tel: (775) 674-7090; Fax: (775) 674-7010

Email: tim.brown@dri.edu URLs <http://www.wrcc.dri.edu> <http://cefa.dri.edu>

Education

Ph.D., 1995 University of Colorado, Boulder, CO, Dept. of Geography.
M.A., 1988 University of Colorado, Boulder, CO, Dept. of Geography.
B.A., 1982 University of Illinois (Sangamon State campus), Springfield, IL, Astronomy-Physics.

Experience

Dr. Brown conducts research and applications development in applied climatology and meteorology, with emphasis on the application of data analysis, statistical methods and scientific visualization to atmospheric sciences data. His primary research topics include analysis of wildland fire-climate and fire-weather relationships and applications product development for wildland fire management planning, decision-making and policy. Dr. Brown is Director of the Western Regional Climate Center, and established and directs the Program for Climate, Ecosystem and Fire Applications (CEFA) at the Desert Research Institute in Reno, Nevada. He is graduate faculty in the Atmospheric Sciences Program at the University of Nevada, Reno.

Positions Held

2010-Present Research Professor, Division of Atmospheric Sciences, Desert Research Institute, Reno, NV
2008-Present Director, Western Regional Climate Center
2003-Present Associate Research Professor, Division of Atmospheric Sciences, Desert Research Institute, Reno, NV
1998-Present Director, DRI Program for Climate, Ecosystem and Fire Applications
2000-2003 Assistant Research Professor, Division of Atmospheric Sciences, Desert Research Institute, Reno, NV
1996-2000 Research Associate, Atmospheric Sciences Center, 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, University of Colorado, Boulder, CO, and Physical Scientist, NOAA Climate Diagnostics Center, Boulder, CO.
1983-1992 Professional Research Assistant, Cooperative Institute for Research in Environmental Sciences, University of Colorado, Boulder, CO.
1980-1982 Student Lab Assistant, University of Illinois (Sangamon State), Springfield, IL.
1973-1980 Research Assistant, Illinois State Water Survey, Champaign-Urbana, IL.

Professional Societies

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

Five Most Recent Relevant Publications

- 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.
- 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.

Five Other Relevant Publications

- 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.
- 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.

Synergistic Activities

Co-Symposia Organizer, 4th through 10th American Meteorological Society Symposium on Fire and Forest Meteorology
Advisor to National Wildfire Coordinating Group Fire Environment Committee
Lecturer at USDA Forest Service National Advanced Fire and Resource Institute
Associate Editor International Journal of Wildland Fire
Member, NOAA West Regional Collaboration Team