

Dr. Timothy J. Brown

Associate 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) 674-7016

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 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-meteorology relationships, fire policy, scientific visualization and applications product development for wildland fire management planning and decision-making. Dr. Brown established and is director of the Desert Research Institute Program for Climate, Ecosystem and Fire Applications (CEFA), and is Director of the Western Regional Climate Center. He is graduate faculty in the Atmospheric Sciences Program at the University of Nevada-Reno.

Positions Held

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

- Miller, C., J. Abatzoglou, T. Brown, and A. Shyphard, 2008: Chapter 10. Wilderness Fire Management in a Changing Environment. 49pp, In press book chapter: The Landscape Ecology of Fire. Springer.
- 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.
- Sherman, W.R., M.A. Penick, S. Su, T.J. Brown, and F.C. Harris, Jr., 2008: VRFire: an Immersive Visualization Experience for Wildfire Spread Analysis. Proceedings IEEE Virtual Reality 2007.
- 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.

Five Other Relevant Publications

- Evelt, R.R., C.R. Mohrle, B.L. Hall, T.J. Brown, S.L. Stephens, 2007: The Effect of Monsoonal Atmospheric Moisture on Lightning Fire Ignitions in Southwestern North America, *Agriculture and Forest Meteorology*, **148**, 1478-1487.
- Reinbold, H.J., J.O. Roads, T.J. Brown, 2004: 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., 2003: The application and utilization of climate information for fire management and policy. In *Proceedings of the 3rd International Wildland Fire Conference*, Sydney, Australia, October 2003, 10 pp.
- Brown, T.J., and J.L. Betancourt, 2000: Effect of climate variability and forecasting on fuel treatment schedules in the western U.S. *Proceedings Joint Fire Science Conference and Workshop*, Vol. II, Boise, ID, 15-17 June 1999, University of Idaho and the International Association of Wildland Fire, 167-172.

Synergistic Activities

Associate Editor – *International Journal of Wildland Fire*
Symposia Co-Organizer, 4th, 5th, 6th, 7th and 8th American Meteorological Society Symposium on Fire and Forest Meteorology
Lecturer at USDA Forest Service National Advanced Fire and Resource Institute
Consultant on fire climate policy with Brookings Institution
Co-Guest Editor for *Agricultural and Forest Meteorology* and three special issues of *International Journal of Wildland Fire*