

## **T.J. Blasing**

Research Staff Member

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## **Education and Training**

1975 University of Wisconsin, Madison, Meteorology, Ph.D.  
1968 University of Wisconsin, Madison, Meteorology, M.S.  
1966 University of Wisconsin, Madison, Meteorology, B.S.

## **Research and Professional Experience**

1977-2010 Research Staff, Oak Ridge National Laboratory, Oak Ridge, TN  
Research interests are centered on seasonal and regional components of anthropogenic carbon emissions and climate change.  
1971-1977 Research Associate, Laboratory of Tree-Ring Research, Univ. of Arizona, Tucson, AZ

## **Selected Publications**

1. Gregg, J.S., L.M. Losey, R.J. Andres, T.J. Blasing and G. Marland. (2009). The Temporal and Spatial Distribution of Carbon Dioxide Emissions from Fossil-Fuel Use in North America. *Journal of Applied Meteorology and Climatology* 48(12) 2528-2542.
2. Erickson, D.J. III, R. T. Mills, J. Gregg, T. J. Blasing, F. M. Hoffman, R.J. Andres, M. Devries, Z. Zhu and S. R. Kawa, 2008. Estimated monthly global emissions of anthropogenic CO<sub>2</sub> and their impact on calculated atmospheric CO<sub>2</sub>, *Journal of Geophysical Research* 113.
3. Christian, J., L. Pratsch, and T. J. Blasing.. 2007. Zero-Peak Communities Electric Utility Benefits. *American Society of Heating, Refrigeration, and Air Conditioning Engineers (ASHRAE), Thermal Performance of the Exterior Envelopes of Whole Buildings X International Conference*. Clearwater Beach, FL, Dec 2-7, 2007.
4. Marland, G., R. Andres, T.J. Blasing, T.A. Boden, C.T. Broniak, J.S. Gregg, L.M. Losey, and K. Treanton, 2007. Energy, Industry, and Waste Management Activities: An Introduction to CO<sub>2</sub> Emissions from Fossil Fuels. pp 57-64 IN: *First State of the Carbon Cycle Report (SOCCR): The North American Carbon Project and Implications for the Global Carbon Cycle.*, United States Climate Change Science Program Synthesis and Assessment Product 2.2, National Oceanic and Atmospheric Administration, National Climatic Data Center, Asheville, NC, USA. 242 pp.
5. Blasing, T.J. and K. Hand. 2007. Monthly carbon emissions from natural-gas flaring and cement manufacture in the United States. *Tellus* 59B, 15-21.
6. Hadley, S.W. D.J. Erickson, J. Hernandez, C.T. Broniak, and T.J. Blasing, 2006. Responses of energy use to climate change: A climate modeling study. *Geophysical Research Letters* 33 L17703
7. Blasing, T.J. Christine Broniak and G. Marland, 2005. State-by state carbon dioxide emissions from fossil fuel use in the United States 1960-2000. *Mitigation and Adaptation Strategies for Global Change* 10, 659-674.
8. Blasing, T.J., C.T. Broniak and G. Marland, 2005. The annual cycle of fossil-fuel carbon dioxide emissions in the United States. *Tellus*, 57B, 107-115.
9. Blasing, T.J., D.B. Scott, and D.P. Kaiser. 2003. Evidence for Recent Changes in a Surface-Air Warming Singularity in Late Winter over Central North America. *Geophysical Research Letters*, 30(9), 5-1 through 5-4.
10. Blasing, T.J., R.L. Miller, and L.N. McCold, 1996: Potential Consequences of the Clean Coal Program for Air and Waste Issues. *Journal of the Air and Waste Management Association*, 46, 517-529.
11. Blasing, T.J., 1985: Background: Carbon cycle, climate, and vegetation responses. *Characterization of Information Requirements for Studies of CO<sub>2</sub> Effects: Water Resources, Agriculture, Fisheries, Forests and Human Health*, M.R. White, Ed., U.S. Department of Energy, Washington, D.C.
12. Meko, D.M., C.W. Stockton, and T.J. Blasing, 1985: Periodicity in tree rings from the corn belt, *Science*, 229, 381-384.

12. Blasing, T.J. and D.N. Duvick, 1984: Reconstruction of precipitation history in North American corn belt using tree rings, *Nature*, 307, 143-145.
13. Blasing, T.J., and A.M. Solomon, 1984: Response of the North American corn belt to climatic warming, *Progress in Biometeorology*, **3**, 311-319.
14. Clark, N.E., T.J. Blasing, and H.C. Fritts, 1975: Influence of interannual climatic fluctuations on biological systems, *Nature*, 256, 302-305.

### **Synergistic Activities**

1. Society of the Sigma Xi
2. American Geophysical Union
3. American Meteorological Society – National
4. American Meteorological Society - Smoky Mountain Chapter
5. Expert Reviewer, Intergovernmental Panel On Climate Change (IPCC)
6. Lead Judge, Southern Appalachian Science and Engineering Fair 1991 –
7. Adjunct Professor, Geography Department, University of Tennessee - Knoxville

### **Collaborators**

GH Marland, WM Post, TA Boden DJ Erickson, WS Hadley F. Hoffman, RT Mills, R Andres (Oak Ridge National Laboratory); K Gurney (Arizona State University); C Tsokos (University of South Florida); P Tans, J Miller, K Maserie, R Stone (National Oceanographic and Atmospheric Administration, Boulder CO); R. Wang (Georgia Tech);

### **Graduate and Postdoctoral Advisors**

*Graduate Advisors:* (M.S.) Reid Bryson and (Ph.D.) John Kutzbach