

William Ewart Easterling, III

Dean
College of Earth and Mineral Sciences
The Pennsylvania State University
billeasterling@psu.edu

116 Deike Building
University Park, PA 16802
814-865-6546 – Voice
814-863-7708 – Fax

Personal

Born October 2, 1953, Chapel Hill, North Carolina

Education

1984	Ph.D.	University of North Carolina at Chapel Hill	Geography-Climatology
1980	M.A.	University of North Carolina at Chapel Hill	Economic Geography
1976	B.A.	University of North Carolina at Chapel Hill	Geography and History

Experience

The Pennsylvania State University (1997–present)

- **Dean**, College of Earth and Mineral Sciences—2007-present
- **Director**, Penn State Institutes of Energy and the Environment (PSIEE)—2001-2007
- **Professor**, Geography; **Faculty Affiliate**, Earth and Environmental Systems Institute; and **Member**, Graduate School; **Courtesy Professor**, Agronomy—1999-present
- **Associate Professor**, Geography; **Faculty Affiliate**, Environment Institute; and **Member**, Graduate School—1997-1998

National Institute for Global Environmental Change (1996-1998)

- **Interim Director**, National Institute for Global Environmental Change (NIGEC) (*located at the University of California at Davis*)—U.S. Department of Energy—1996-1998

University of Nebraska-Lincoln and University of Illinois, Champaign-Urbana (1984-1997)

- **Associate Professor**, Agricultural Meteorology; **Graduate Faculty Fellow** and **Adjunct Associate Professor**, Geography (*University of Nebraska-Lincoln and University of Illinois—Champaign-Urbana*)—1993-1997
- **Director**, Great Plains Regional Center for Global Environmental Change (*located at the University of Nebraska-Lincoln*)—1992-1997
- **Assistant Professor**, Agricultural Meteorology (*University of Nebraska-Lincoln*) and **Adjunct Assistant Professor**, Geography (*University of Illinois—Champaign-Urbana*)—1991-1993
- **Fellow**, Climate Resources Program, Resources for the Future (RFF); **Adjunct Assistant Professor**, Geography (*University of Illinois—Champaign-Urbana*); and **Adjunct Assistant Professor**, Agricultural Meteorology (*University of Nebraska-Lincoln*)—1987-1991
- **Professional Scientist**, Climate and Meteorology Section, Illinois State Water Survey (*Champaign, IL*) and **Adjunct Assistant Professor**, Geography (*University of Illinois-Champaign-Urbana*)—1987
- **Associate Professional Scientist**, Climate and Meteorology Section, Illinois State Water Survey (*Champaign, IL*) and **Adjunct Assistant Professor**, Geography (*University of Illinois-Champaign-Urbana*)—1984-1986

National Academy of Sciences/National Research Council, Washington, D.C. (1983-1984)

- **Mellon Foundation Fellow-in-Residence**, Board on Atmospheric Sciences and Climate
- **Staff Officer**, Planning for the International Geosphere-Biosphere Program

University of North Carolina at Chapel Hill (1977-1983)

- **Academic Advisor**, Evening College—1980-1983
- **Research Assistant**, Institute for Research in the Social Sciences—1980
- **Graduate Research Assistant** and **Teaching Fellow**—1977-1982
- **Student Assistant**, Library Accounting Department, Wilson Graduate Library—1975-1977

Honors and Awards

- Nobel Laureate—Contributor to the Award of the Nobel Peace Prize to the Intergovernmental Panel on Climate Change—2007
- Convening Lead Author, Intergovernmental Panel on Climate Change, Working Group II, Fourth Assessment Report (Chapter 5, Food, Fibre, Forestry and Fisheries) United Nations Environment Programme-World Meteorological Organization—2004-2007
- Convening Lead Author, Intergovernmental Panel on Climate Change, Working Group II, Third Assessment Report (Chapter 5, Ecosystems and Their Services), United Nations Environment Programme-World Meteorological Organization—1998-2001
- Wilson Award for Excellence in Research, College of Earth and Mineral Sciences, The Pennsylvania State University—2003
- Lecturer, Walter Orr Roberts Memorial Lecture, Aspen Global Change Institute, Aspen, Colorado—1997
- Associate, Center for Grassland Studies, University of Nebraska-Lincoln, Institute of Agriculture and Natural Resources—1994-1997
- Recipient, W. R. Boggess Award for Most Outstanding Paper Published in *The Water Resources Bulletin* in 1989, American Water Resources Association—1991
- Fellow, Andrew Mellon Foundation Resident Fellowship, National Academy of Sciences—National Research Council, Washington, D.C.—1983-84

Research Interests

- African-Related Studies of Climate and Decision-Making
- Climate Change and Food Security
- Crop Modeling of Climate-Plant Interactions
- Human-Environment Interactions
- Integrated Regional Assessment
- Adaptation to Climate Change

Professional Society Memberships

- Association of American Geographers
- American Association for the Advancement of Science
- American Geophysical Union
- American Meteorological Society
- Center for Great Plains Studies

Service Activities

- Member, External Advisory Board, NSF-Sponsored Decision Center for a Desert City, Arizona State University—2005-present
- Member, Scientific Advisory Committee, Institute for Social Sciences and the Environment, National Center for Atmospheric Research—2005-present
- Member, Steering Committee, National Phenology Network, University of Wisconsin-Milwaukee and University of Arizona—2005-present
- Member, Committee on Geographical Sciences, National Research Council—2004-present
- Chair, External Advisory Board, NSF-Sponsored Center for Research on Environmental Decisions, Columbia University—2004-present
- Penn State Representative, Cooperative Ecosystems Studies Units Network—2003-present
- Member, Scientific Advisory Panel, International Research Institute, Lamont-Doherty Earth Observatory, Columbia University—2002-present

Select Publications

Easterling, W. E. (2007). Special Feature Editor, Proceedings of the National Academy of Sciences of the United State of America, Vol. 104, No. 50, pp. 19657-200144, www.pnas.org.

Easterling, W. E. (2005). Chapter 11: Assessing the Consequences of Climate Change for Food Security: A View from the Intergovernmental Panel on Climate Change, in R. Lal (Ed.), *Climate Change and Global Food Security*, Routledge, Boca Raton, 778 pp.

Easterling W. E., Apps M. (2005). Assessing the consequences of climate change for food and forest resources: A view from the IPCC, *Climatic Change* 70 (1-2): 165-189.

Easterling, W. E., Brian Hurd, and Joel Smith (2004). *Coping with Global Climate Change: The Role of Adaptation in the United States*, Pew Center on Global Climate Change, Washington, DC.

Easterling, W. E., C. Polsky, D. Goodin, M. W. Mayfield, W. A. Muraco, and B. Yarnal (2003). Changing Places, Changing Emissions: Comparing Local, State, and United States Emissions, in Association of American Geographers Global Change and Local Places Research Team (ed.), *Global Change and Local Places—Estimating, Understanding, and Reducing Greenhouse Gases*, Cambridge University Press, Cambridge, pp 27-56.

Easterling, W. E., N. Chhetri, and X. Niu (2003). Improving the realism of modeling agronomic adaptation to climate change: simulating technological substitution, in Mearns. L. O. (ed.), *Issues in the Impacts of Climate Variability and Change on Agriculture—Applications to the southeastern United States*, Kluwer Academic Publishers, Dordrecht, pp. 149-173. (peer reviewed)

Easterling, W. E. and Kasper Kok (2002). Emergent Properties of Scale in Global Environmental Modeling: Are There Any? *Integrated Assessment*, 2-3:233-246.

Convening Lead Authors: Gitay, Habiba, Sandra Brown, William Easterling, and Bubu Jallow (with J. Antle, M. Apps, R. Beamish, T. Chapin, W. Cramer, J. Frangi, J. Laine, Lin Erda, J. Magnuson, I. Noble, J. Price, T. Prowse, O. Sirotenko, T. Root, E. Schulze, B. Sohngen, J. Soussana) (2001). Chapter 5. Ecosystems and Their Goods and Services. in McCarthy *et al.* (eds.) *CLIMATE CHANGE 2000—Impacts, Adaptations and Mitigation of Climate Change: Scientific-Technical Analyses*. Contribution of Working Group II to the Third Assessment Report of the Intergovernmental Panel on Climate Change, United Nations Environment Programme-World Meteorological Organization, Cambridge University Press. pp. 235-342. (peer reviewed)

Easterling, W. E., J. R. Brandle, C. J. Hays, Q. Guo, and D. S. Guertin (2001). Simulating the impact of human land use change on forest composition in Great Plains agroecosystems with the *Seedscape* model. *Ecological Modeling*, 140: 163-176.

Easterling, W. E., L. O. Mearns, C. J. Hays, and D. Marx (2001). Comparison of agricultural impacts of climate change calculated from high and low resolution climate change scenarios: part II. Accounting for adaptation and CO₂ direct effects, *Climatic Change*, 51:173-197.

Easterling, W. E. and Robert Mendelsohn (2000). Estimating the Economic Impacts of Drought on Agriculture. in Wilhite, Donald A. (ed.) *Drought: A Global Assessment, Volume 1*. London: Routledge, pp 256-268.

Easterling, W. E. (2000). Lessons from the Papers for Applying the “End-to-End” Model to CLIMAG,” in Sivakumar, M. V. K. (ed.). *Climate Prediction and Agriculture, Proceedings of an International Workshop*, International START Secretariat and World Meteorological Organization, Washington, D. C., 181-186.