

**David A. Robinson**

Professor & New Jersey State Climatologist

Department of Geography & Office of the State Climatologist  
Rutgers University

54 Joyce Kilmer Ave., Piscataway, NJ 08854

voice: 732-445-4741 fax: 732-445-0006

email: [drobins@rci.rutgers.edu](mailto:drobins@rci.rutgers.edu) web site: <http://climate.rutgers.edu>

**EDUCATION**

Ph.D., Geology 1984 Columbia University  
M.S., Geology 1981 Columbia University  
B.S., Geology 1977 Dickinson College, Carlisle, PA

**ACADEMIC POSITIONS**

1995- Professor, Department of Geography, Rutgers University  
1991- New Jersey State Climatologist  
1996-2003, 2005- Chairman, Dept. Geography, Rutgers  
1994-98, 01 Director, Graduate Program, Department of Geography, Rutgers  
1988-95 Assistant ('88-'91) & Associate ('91-'95) Professor, Dept. Geography, Rutgers  
1988 Visiting Scientist, United States National Climatic Data Center  
1984-1988 Assoc. Research Scientist, Lamont-Doherty Earth Observatory, Columbia U.

**RESEARCH INTERESTS**

My primary research interests are in climate and climate change; in particular, state and regional climate and climate change issues, hemispheric and regional snow cover dynamics, interactions of snow cover with other climate elements, the dynamics of solar and terrestrial radiative fluxes at and close to the surface of the earth, and the collection and archiving of accurate climatic data.

**RESEARCH GRANTS**

To date, served as the principal investigator, co-principal investigator or sponsor on 50 research grants totaling approximately \$8.8 million. Active and forthcoming grants include:

2009 Economic Impacts of Climate Change on New Jersey. Hunter College/NJ Department of Environmental Protection. (forthcoming)  
2009 Ongoing Tracking and Interpretation of New Jersey's Weather. NJ Office of Emergency Management, NJ State Police. (forthcoming)  
2008-2011 Development of an Integrated Northern Hemisphere Snow and Ice Operational Climate Data Record. National Oceanic and Atmospheric Administration (NOAA).  
2008-2012 Development of Northern Hemisphere Snow Climate Data Records. National Aeronautics and Space Administration.  
2008-2011 The NJ Mesonet: Ongoing Operations and Maintenance. NJ Department of Environmental Protection.  
2008-2010 NJFireNet: Real Time Observations and Tools for Fire Weather Decision Makers. USDA Forest Service.  
2008-2009 Continued Monitoring of Global Snow Cover Extent and Depth. NOAA.  
2008-2009 Ongoing Development of Snow Impact Scales for the US. NOAA.  
2007-2009 Implementation of maintenance decision support system in New Jersey. NJ Institute of Technology/NJ Department of Transportation.

**PUBLICATIONS**

To date, author or co-author of 82 refereed articles, 12 book chapters, and 85 non-refereed articles and technical reports. Some recent publications include:

- Kunkel, K.E., M. Palecki, L. Ensor, D. Easterling, K.G. Hubbard, D. Robinson, & K. Redmond (2009) Trends in 20<sup>th</sup> century US extreme snowfall seasons using a quality-controlled data set. *Journal of Climate* (in press).
- Foster, J., D. Hall, D.A. Robinson & T. Estilow (2009) Spring snow melt timing and changes over Arctic lands. *Polar Geography*, 31 (in press).
- Hall, D., & D.A. Robinson (2009) Global Snow Cover. State of the Earth's Cryosphere at the Beginning of the 21st Century: Glaciers, Global Snow Cover, Floating Ice, and Permafrost and Periglacial Environment. US Geological Survey. (in press)
- Yang, D., Y. Zhao, R. Armstrong & D.A. Robinson (2009) Yukon river streamflow response to seasonal snowcover changes. *Hydrological Processes*, 23, 109-121.
- Kunkel, K.E., L. Ensor, M. Palecki, D. Easterling, D. Robinson, K.G. Hubbard & K. Redmond (2009) A new look at lake-effect snowfall trends in the Laurentian Great Lakes using a temporally homogenous data set. *Journal of Great Lakes Research*, 35, 23-29.
- Kunkel, K.E., M. Palecki, L. Ensor, K.G. Hubbard, D.A. Robinson, K. Redmond & D. Easterling (2009) Trends in twentieth-century U.S. snowfall using a quality-controlled data set. *Journal of Atmospheric and Oceanic Technology*, 26, 33-44.
- Ye, H., D. Yang & D.A. Robinson (2008) Winter rain on snow and its association with air temperature in northern Eurasia. *Hydrological Processes*, 22, 2728-2736.
- Kunkel, K.E., M.A. Palecki, K.G. Hubbard, D.A. Robinson, K.T. Redmond & D.R. Easterling (2007) Trend identification in twentieth-century U.S. snowfall: the challenges. *Journal of Atmospheric and Oceanic Technology*, 24, 64-73.
- Yang, D., Y. Zhao, R. Armstrong, D. Robinson & M.J. Brodzik (2007) Streamflow response to seasonal snowcover mass changes over large Siberian watersheds. *Journal of Geophysical Research*, 112, F02S22, doi: 10.1029/2006/F000518.
- Xu, M., C-P Chang, C. Fu, Y. Qi, A. Robock, D. Robinson & H-M Zhang (2006) Steady decline of East Asian monsoon winds, 1969-2000: evidence from direct ground measurements of wind speed. *Journal of Geophysical Research-Atmosphere*, 111, D24111, doi: 10.1029/2006JD007337.
- Choi, G., W-T Kwon & D.A. Robinson (2006) Seasonal onset and duration in South Korea. *Journal of the Korean Geographical Society*, 41 (4), 245-266.
- Frei, A., R. Brown, J.A. Miller, & D.A. Robinson (2005) Snow mass over North America: observations and results from the second phase of the Atmospheric Model Intercomparison Project (AMIP-2). *Journal of Hydrometeorology*, 6, 681-695.

## PROFESSIONAL ACTIVITY

### **Appointed/elected positions** (currently active and selected positions during the past 10 years):

- 2007- Member, Learning and Teaching Advisory Committee, Liberty Science Center
- 2006- Member, National Oceanic and Atmospheric Administration Science Advisory Board Climate Working Group
- 2006- Member, National Integrated Drought Information System Implementation Team
- 2005- Member, NJ State Hazard Mitigation Team
- 2003- Member, External Advisory Committee: National Oceanic and Atmospheric Administration – Cooperative Remote Sensing Science and Technology Center
- 2002- Executive committee: American Association of State Climatologists (currently AASC Recognized State Climate Office coordinator)
- 2001- Advisory Board, National Weather Service StormReady Community Program
- 1999- New Jersey Department of Environmental Protection Internal Drought Task Force
- 1999- Contributor: Intergovernmental Panel on Climate Change
- 2006-2008 Chair, National Research Council (NRC) Committee: Archiving and Accessing Environmental and Geospatial Data at NOAA
- 2004-2008 Member, AMS Applied Climatology Committee
- 2003-2005 Chair, NRC Committee: Climate Data Records from Operational Satellite
- 1997-2000 Chair, AMS Committee on Polar Meteorology and Oceanography

## RECENT AWARDS

- 2008 "Environmental Hero": National Oceanic and Atmospheric Administration
- 2008 Lifetime Achievement Award: Climate Specialty Group, Association of American Geographers

