

David A. Robinson

Professor & New Jersey State Climatologist

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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, 2005-2011	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 73 research grants totaling approximately \$10.7 million. Active grants include:

2012-2013	Monitoring and Interpretation of New Jersey's Weather for Emergency Management Decision Makers. NJ Office of Emergency Management, NJ State Police.
2011-2013	The NJ Mesonet: Ongoing Operations and Maintenance. NJ DEP
2011-2013	NOAA NWS National Mesonet Expansion. Global Science and Technology.
2012-2013	Updates to Snow Cover Extent and Snow Depth Products. NOAA.
2012-2013	NJFireNet: continuation. USDA Forest Service.
2008-2014	Development of Northern Hemisphere Snow Climate Data Records. NASA.

PUBLICATIONS

To date, have been an author or co-author of 94 refereed articles, 16 book chapters, 95 non-refereed articles and technical reports, and 6 panel reports. Some recent publications include:

Rupp, D.E., P.W. Mote, N.L. Bindoff, P.A. Stott & D.A. Robinson (2013) Detection and attribution of observed changes in Northern Hemisphere spring snow cover. *Journal of Climate*, 26, 6904-6914, doi: 10.1175/JCLI-D-12-00563.1.

Foster, J.L., J. Cohen, D.A. Robinson & T.W. Estilow (2013) A look at the date of snowmelt and correlations with the Arctic Oscillation. *Annals of Glaciology*, in press.

Kunkel and 23 others including D.A. Robinson (2013) Monitoring and understanding trends in extreme storms: State of knowledge. *Bulletin of the American Meteorological Society*, April 2013, 499-514, doi: 10.1175/BAMS-D-11-00262.1.

Rennermalm, A.K., S.E. Moustafa, J. Mioduszewski, V.W. Chu, R.R. Forster, B. Hagedorn, J.T. Harper, T.L. Mote, D.A. Robinson, C.S. Shuman, L.C. Smith & M. Tedesco (2013) Understanding Greenland ice sheet hydrology using an integrated multi-scale approach. *Environmental Research Letters*, 8

- (2013) 015017, doi: 10.1088/1748-9326/8/1/015017.
- Ghatak, D., C. Deser, A. Frei, G. Gong, A. Phillips, D.A. Robinson, & J. Sroeve (2012) Simulated Siberian snow cover response to observed Arctic sea ice loss, 1979-2008. *Journal of Geophysical Research*, 117, D23108, doi: 10.1029/2012JD018047.
- Frei, A., M. Tedesco, S. Lee, J. Foster, D.K. Hall, R. Kelly & D.A. Robinson (2011) A review of global satellite-derived snow products. *Advances in Space Research*, 50, 1007-1029, doi: 10.1016/j.asr.2011.12.021.
- Decker, S.G. & D.A. Robinson (2011) Unexpected high winds in northern New Jersey: A downslope windstorm in the presence of modest topography. *Weather and Forecasting*, 26, 902–921, doi: 10.1175/WAF-D-10-05052.1.
- Brown, R.D. & D.A. Robinson (2011) Northern Hemisphere spring snow cover variability and change over 1922-2010 including an assessment of uncertainty. *The Cryosphere*, 5, 219–229, doi: 10.5194/tc-5-219-2011.
- Davi, N., G. Jacoby, K. Fang, J. Li, R. D'Arrigo, N. Baatarbileg & D. Robinson (2010) Reconstructing drought variability for Mongolia based on a large-scale tree-ring network: 1520-1993. *Journal of Geophysical Research*, 115, D22103, doi: 10.1029/2010JD013907.
- Ghatak, D., A. Frei, G. Gong, J. Sroeve & D. Robinson (2010) On the emergence of an Arctic amplification signal in terrestrial Arctic snow extent. *Journal of Geophysical Research*, 115, D24105, doi: 10.1029/2010JD014007.
- DeAngelis, A., F. Dominguez, Y. Fan, A. Robock, M.D. Kustu & D. Robinson (2010) Evidence of enhanced precipitation due to irrigation over the Great Plains of the United States. *Journal of Geophysical Research*, 115, D15115, doi: 10.1029/2010JD013892.
- Choi, G., D.A. Robinson & S. Kang (2010) Changing Northern Hemisphere snow seasons. *Journal of Climate*, 23, 5305-5310, doi: 10.1175/2010JCLI3644.1.
- Kunkel, K.E., M. Palecki, L. Ensor, D. Easterling, K.G. Hubbard, D. Robinson, & K. Redmond (2009) Trends in twentieth-century US extreme snowfall seasons. *Journal of Climate*, 22, 6204-6216, doi: 10.1175/2009JCLI2631.1.
- Yang, D., Y. Zhao, R. Armstrong & D.A. Robinson (2009) Yukon River streamflow response to seasonal snowcover changes. *Hydrological Processes*, 23, 109-121, doi: 10.1002/hyp.7216.

PROFESSIONAL ACTIVITY

Appointed/elected positions (selected currently active positions and selected positions since 2006):

- 2013- Member, Physical Climate Indicators Working Group, National Climate Assessment
- 2012- Member, American Meteorological Society writing team for Policy Statement on the Free and Open Exchange of Environmental Data
- 2012 Member, Steering Committee, NASA Remote Sensing of Seasonal Snow
- 2011- Member Steering Committee: Northeast Climate Assessment. National Climate Assessment, US Global Climate Research Program
- 2011- Member, National Academy of Sciences Board on Atmospheric Sciences and Climate
- 2010- Member, Climate and Atmospheric Sciences Standing Committee, NJDEP
- 2007- Member, Learning and Teaching Advisory Committee, Liberty Science Center
- 2002- Executive committee: American Association of State Climatologists (past president)
- 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
- 2006-2013 Member, NOAA Science Advisory Board Climate Working Group
- 2009-2011 Member, National Academy of Sciences Climate Research Committee
- 2006-2008 Chair, National Research Council (NRC) Committee: Archiving and Accessing Environmental and Geospatial Data at NOAA

RECENT AWARDS

- 2012 Fellow, American Meteorological Society
- 2008 National Associate. National Research Council of the National Academies
- 2008 "Environmental Hero": National Oceanic and Atmospheric Administration
- 2008 Lifetime Achievement Award: Climate Specialty Group, Association of American Geographers