

DAVID A. ROBINSON

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EDUCATION

Ph.D., Geology	1984	Columbia University
M.Phil., Geology	1981	Columbia University
M.S., Geology	1981	Columbia University
B.S. (with honors), Geology	1977	Dickinson College

PROFESSIONAL POSITIONS

1996-2003; 2005-2011 Chair, Dept. Geography, Rutgers University (on leave 7/99-6/00)
2005- Graduate Faculty, Atmospheric Science Program, Rutgers University
1999- Member, Center for Environmental Prediction, Department of Environmental Sciences, Cook College, Rutgers
1995- Professor, Department of Geography, Rutgers
1995- Associate Director for Climatology, Walton Center for Remote Sensing and Spatial Data Analysis, Cook College, Rutgers
1994- Graduate Faculty, Environmental Sciences Program, Rutgers
1991- New Jersey State Climatologist
1991- Graduate Faculty, Geology Program, Rutgers University
1989- Graduate Faculty, Geography Program, Rutgers
2004-05 Director, Undergraduate Program, Department of Geography, Rutgers
1988-2003 Adjunct Research Scientist, Lamont-Doherty Earth Observatory of Columbia University
1989-99 Graduate Faculty, Meteorology Program, Rutgers (program closed)
1994-98, 2001 Director, Graduate Program, Department of Geography, Rutgers
1991-95 Associate Professor, Dept. Geography, Rutgers
1988-91 Assistant Professor, Dept. Geography, Rutgers
1988 Visiting Scientist, United States National Climatic Data Center
1986-88 Adjunct Professor, Bergen Community College, Paramus, NJ
1984-87 Adjunct Professor, College of New Rochelle, New Rochelle, NY
1984-88 Associate Research Scientist, Lamont-Doherty
1978-84 Graduate Research Assistant, Lamont-Doherty
1977-78 Research Assistant, Lamont-Doherty

RESEARCH INTERESTS

Primary research interests include 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.

HONORS/AWARDS

2014	Rutgers College Class of 1962 Presidential Public Service Award
1989-	Faculty Academic Service Increments (annual merit award): Rutgers University
2012	Fellow, American Meteorological Society
2008	National Associate. National Research Council of the National Academies

2008 National Oceanic and Atmospheric Administration "Environmental Hero" award
 2008 Lifetime Achievement Award: Climate Specialty Group, Association of American Geographers
 1991-92 Trustees' Research Fellowship: Rutgers University
 1988-90 Henry Rutgers Research Fellowship: Rutgers University
 1986 Elected member of Sigma Xi

RESEARCH GRANTS

To date, served as the principal investigator, co-principal investigator or sponsor on 79 research grants totaling \$11,661,379. Funding is listed for active grants.

2014-2017 Toward Improving Understanding of Extreme Snow Melt Runoff Events Under Past, Present, and Future Climate. NOAA. \$179,358
 2014-2015 NJFireNet: continuation. USDA Forest Service. \$25,000.
 2014-2015 The New Jersey Mesonet: Continued Operations and Maintenance. New Jersey Department of Environmental Protection. \$90,000
 2014-2015 Snow Cover Climate Data Record Sustainment and Maintenance. NOAA. \$50,000.
 2014 Best Practices in Coastal Storm Risk Communication. NOAA Sea Grant. \$149,806 (C. Cuite, PI)
 2013-2014 The New Jersey Mesonet: Continued Operations and Maintenance. New Jersey Department of Environmental Protection.
 2013-2014 Ongoing Monitoring and Interpretation of New Jersey's Weather for Emergency Management Decision Makers. NJ Office of Emergency Management, NJ State Police.
 2013-2014 Snow Cover Climate Data Record Sustainment and Maintenance. NOAA. \$50,000.
 2013-2014 NJFireNet: continuation. USDA Forest Service.
 2013-2015 Sponsor of John Mioduszewski. A multi-method approach to improved understanding of terrestrial snowmelt in a warming world. NASA Graduate Student Fellowship in Global Change Research, \$45,000.
 2013 Monthly Reports of New Jersey Weather and Climate, American Association of State Climatologists.
 2012-2013 Monitoring and Interpretation of New Jersey's Weather for Emergency Management Decision Makers. NJ Office of Emergency Management, NJ State Police.
 2012-2013 NJFireNet: continuation. USDA Forest Service.
 2011-2014 NOAA National Weather Service National Mesonet Expansion. Global Science and Technology. \$742,754.
 2011-2013 Updates to Snow Cover Extent and Snow Depth Products. NOAA.
 2011-2013 The New Jersey Mesonet: Continued Operations and Maintenance. New Jersey Department of Environmental Protection.
 2012 Monthly Reports of New Jersey Weather and Climate, American Association of State Climatologists.
 2011-2012 NJFireNet: continuation. USDA Forest Service.
 2011 Monthly Reports of New Jersey Weather and Climate, American Association of State Climatologists.
 2010-2011 Updates to Snow Cover Extent and Snow Depth Products. NOAA.
 2010-2011 Continued Tracking and Interpreting of New Jersey's Weather. NJ Office of Emergency Management, NJ State Police.
 2010 Monthly Reports of New Jersey Weather and Climate, American Association of State Climatologists.
 2010-2011 NJFireNet: continuation. USDA Forest Service.
 2010-2011 Emergency Shelter Location and Resource Allocation. University Center for Disaster Preparedness and Emergency Response, Rutgers University. (N. Fefferman and M. Baykal-Gursoy, co-PIs)
 2010-2014 U.S. Freshwater Resources in the Coming Decades: an Integrated Climate-Hydrologic Modeling Study. Environmental Protection Agency (Y. Fan, PI)
 2009-2010 Continued Monitoring of Global Snow Cover Extent and Depth. NOAA.
 2009-2010 NJFireNet: Ongoing Real Time Observations and Tools for Fire Weather Decision Makers. USDA Forest Service.

2009-2010 Economic Impacts of Climate Change on New Jersey. Hunter College/NJ Department of Environmental Protection.

2009 Ongoing Tracking and Interpreting New Jersey's Weather. NJ Office of Emergency Management, NJ State Police

2009 Monthly Reports of New Jersey Weather and Climate, American Association of State Climatologists.

2008-2011 Development of an Integrated Northern Hemisphere Snow and Ice Operational Climate Data Record. National Oceanic and Atmospheric Administration (NOAA).

2008-2014 Development of Northern Hemisphere Snow Climate Data Records. National Aeronautics and Space Administration (NASA).

2008-2011 The NJ Mesonet: Ongoing Operations and Maintenance. NJ Department of Environmental Protection.

2008-2009 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.

2008 Tracking and Interpreting New Jersey's Weather NJ Office of Emergency Management, NJ State Police.

2007-2008 NJFIRENET: Real time observations and tools for fire weather decision makers. USDA Forest Service.

2006-2007 Operational Monitoring of Global Snow Cover: Continuation. NOAA.

2007 The New Jersey Weather and Climate Network within the Passaic Basin. NJ Office of Emergency Management, NJ State Police.

2006-2007 Development of Snow Impact Scales for US Regions. NOAA.

2006-2007 Operational Monitoring of Global Snow Cover: Continuation. NOAA.

2005-2008 Assessment of Arctic Snowcover Change and its Impact on Large River Runoff. NOAA.

2005-2008 The New Jersey Mesonet: Operations and Maintenance. NJ Department of Environmental Protection.

2005-2006 Operational Monitoring of Global Snow Cover: Continuation. NOAA.

2005-2006 The NJ Weather Safety Network: Upgrading and Training. NJ Office of Emergency Management, NJ State Police.

2004-2007 Global Monitoring of Continental Snow cover Combining Satellite and In-situ Sources. NOAA.

2004-2008 Real Time Observational Tools for Fire Weather Decision Makers. USDA Forest Service.

2004-2005 Operational Monitoring of Global Snow Cover. NOAA.

2004-2005 NJ Department of Transportation Roadside Weather Information System Web Site. NJ Department of Transportation.

2004 The NJ Weather Safety Network: Development, Operations & Training. NJ Office of Emergency Management, NJ State Police.

2002-2004 Trends and Variability of Global Snowfall and Snow Cover. NOAA.

2002-2004 The NJ Mesonet: Enhanced Monitoring of New Jersey Precipitation. New Jersey Department of Environmental Protection.

2002-2004 Providing Wide-Area IPM to New Jersey Growers Utilizing the New Jersey Weather and Climate Network (NJWxNet). NJ Agricultural Experiment Station Program Enhancement Grants Initiative.

2001-2004 A Hybrid Approach for Evaluating and Predicting Interactions Between the Seasonal Snow Pack and the Atmosphere. NASA.

2002-2003 The NJ Weather and Climate Network: Ongoing Development and Maintenance, and Network Training for Public Safety Officials. NJ Office of Emergency Management, NJ State Police.

2002 Climate Report Card. NJ Center for Environmental Indicators, Rutgers.

2001-2002 NJ DroughtWatch: Precipitation Data for Drought Monitoring. NJ Geological Survey, NJ Department of Environmental Protection.

2000-2004 Roadway Weather Information Sites. New Jersey Department of Transportation.

2000-2004 A Blended Northern Hemisphere Snow Dataset. NOAA.

2000-2002 Collaborative Research on the Snow-Soil Moisture-Monsoon Relationship. National

Science Foundation (NSF) (Atmospheric Sciences).

1999-2002 Evaluation of Snow Simulations in the Second Phase of the Atmospheric Model Intercomparison Project (AMIP-II). NSF Climate Dynamics Program.

2001 The NJ Weather and Climate Network: an Indispensable Tool for Public Safety. NJ Office of Emergency Management, NJ State Police.

2000-2001 Assessment of the Consequences of Climate Change for New Jersey. New Jersey Department of Environmental Protection.

1998-2001 Evaluation of Snow Water Equivalent Across Grassland Regions. NASA.

1997-2001 Eastern United States Climate and Atlantic Sea Surface Temperatures. NSF Climate Dynamics.

1997-2000 Validation of Old and New Satellite Global Snow Cover Products. NOAA.

1997-2000 Sponsor of Elaine Matthews. Anthropogenic Perturbations to the Carbon Cycle From 1950 Onward Estimated From New Historical Land Use Data. NASA Graduate Student Fellowship in Global Change Research.

1994-1999 A Prototype Information System for Disseminating Annotated Climate Change Scenarios in the Great Plains. Department of Energy/National Institute for Global Environmental Change (DOE/NIGEC) Great Plains Regional Center.

1996-1999 Extended Spatial and Temporal Analyses of Snow Cover. NOAA

1996-1998 Contemporary Variability, Future Changes and Human Dimensions of Snowpack Water Resources Over the Western United States. NSF

1994-1998 Snow Cover - Boundary Layer Climate Interactions. NSF (Geography and Regional Science).

1994-1998 Atmospheric Controls on Northern Hemisphere Cryosphere Variability. NSF (Climate Dynamics).

1993-1997 The Impacts of Climate Change Using Long Term Daily Climate Records Over Grassland Regions of the Northern Hemisphere. DOE/NIGEC Great Plains Regional Center.

1993-1997 Kinematics of Northern Hemisphere Snow Cover and Resultant Impacts on Surface Albedo. NASA

1993-1996 Sponsor of Allan Frei. Anthropogenic Global Climate Change Detection Using Remotely Sensed Northern Hemisphere Snow Cover Data. NASA Graduate Student Fellowship in Global Change Research,

1993-1994 The Development of a Climate Related Water Resource Monitoring System for the Northeast United States. Northeast Regional Climate Center (NRCC)/NOAA.

1992-1993 High Resolution Profile of Northeast United States Temperature. NRCC/NOAA.

1991-1994 Sponsor of Marilyn G. Hughes. A Regional Analysis of Historical Snow Cover in the Central United States: Implications for its Uses as an Indicator of Anthropogenic Climate Change. NASA Graduate Student Fellowship in Global Change Research.

1991-1993 Snow Cover as an Indicator of Climate Change. NSF (Geography and Regional Science).

1990-1993 Snow Cover as an Indicator of Anthropogenic Climate Change. NOAA.

1990-1993 Summer Climate Interactions in the Arctic Basin. NSF (Climate Dynamics).

1989-1992 Cryosphere/Climate Interactions in China. NSF (International Programs).

1988-1989 United States Historical Snow Data Base. NSF (Climate Dynamics).

1986-1989 Ground Truth for the International Satellite Cloud Climatology Project (ISCCP) Algorithm: Cirrus and Their Radiation Impact. NASA.

1987-1989 Variability and Climate Significance of Snow in the Arctic Basin. NSF (Climate Dynamics).

1985-1988 Cloud/Cryosphere Interactions. Air Force Office of Scientific Research.

1986-1987 Seasonal Snow Cover Dynamics. NSF (Climate Dynamics).

1983-1986 Snow Melt in the Arctic Basin. NSF (Climate Dynamics).

1984-1985 Variations of Arctic Cloud Cover in Summer. Department of Energy.

PUBLICATIONS

To date, have been an author or co-author of 96 refereed articles, 16 book chapters, 99 non-refereed articles and technical reports, and 6 panel reports.

Dissertation:

Robinson, D.A. (1984) *Anthropogenic Impact On Winter Surface Albedo*. Doctoral thesis, Columbia University, 384 pp.

Refereed articles:

- Mioduszewski, J., Rennermalm, A., D.A. Robinson and T. Mote (2014) Attribution of snow melt onset in northern Canada. *Journal of Geophysical Research – Atmospheres* (in press)
- Lawrimore, J. T.R. Karl, M. Squires, D.A. Robinson & K.E. Kunkel (accepted) Trends and Variability in Severe Snowstorms East of the Rocky Mountains, *Journal of Hydrometeorology*.
- Squires, M.S., J. H. Lawrimore, R. Heim Jr., D.A. Robinson, M.R Gerbush, & T.W. Estilow (2014) The regional snowfall index. *Bulletin of the American Meteorological Society*, <http://dx.doi.org/10.1175/BAMS-D-13-00101.1>.
- 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 Glaciology*, in press.
- 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.
- 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 (1) 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 – Atmospheres*, 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*. <http://dx.doi.org/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.
- McDonnell, J., L. Bovitz, C. Ferraro, R. Lyons & D. Robinson (2011) Climate change summits for teens. *Green Teacher*, 93, 25-27.
- 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, www.the-cryosphere.net/5/219/2011/doi:10.5194/tc-5-219-2011.
- Callaghan, T.V. and 20 others including D.A. Robinson (2011) The changing face of Arctic snow cover: a synthesis of observed and projected changes. *Ambio*, 40, 17-31, DOI 10.1007/s13280-011-0212-y.
- Callaghan, T.V. and 30 others including D.A. Robinson (2011) Multiple effects of changes in Arctic snow cover. *Ambio*, 40, 32-45, DOI 10.1007/s13280-011-0213-x.
- 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 - Atmospheres*, 115, D22103, doi:10.1029/2010JD013907.
- Ghatak, D., A. Frei, G. Gong, J. Stroeve & D. Robinson (2010) On the emergence of an Arctic amplification signal in terrestrial Arctic snow extent. *Journal of Geophysical Research – Atmospheres* 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.
- 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.
- 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.
- Foster, J., D. Hall, D.A. Robinson & T. Estilow (2008) Spring snow melt timing and changes over Arctic lands. *Polar Geography*, 31, 145-157.
- 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.
- Gong, G., D. Entekhabi, J. Cohen & D. Robinson (2004) Sensitivity of atmospheric response to modeled snow anomaly characteristics. *Journal of Geophysical Research*. 109, D06107, doi: 10.1029/2003JD004160.
- Leathers, D.J., D. Graybeal, T. Mote, A. Grundstein & D. Robinson (2004) The role of air mass types and surface energy fluxes in snow cover ablation in the central Appalachians. *Journal of Applied Meteorology*, 43, 1887-1898.
- Pielke, R.A., Sr., G.E. Liston, W.L. Chapman & D.A. Robinson (2004) Actual and insolation-weighted Northern Hemisphere snow cover and sea-ice between 1973-2002. *Climate Dynamics*, 22, 591-595.
- Mote, T.L., A.J. Grundstein & D.A. Robinson (2003) A comparison of modeled, remotely sensed and measured snow water equivalent in the northern Great Plains. *Water Resources Research*, 39, 1209, doi:10.1029/2002WR001782
- Yang, D., D. Robinson, Y. Zhao, T. Estilow & B. Ye (2003) Streamflow response to seasonal snowcover extent changes in large Siberian watersheds. *Journal of Geophysical Research*, 108(D18), 4578, doi: 10.1029/2002JD003149.
- Frei, A., J.A. Miller & D.A. Robinson (2003) Improved simulations of snow extent in the second phase of the Atmospheric Model Intercomparison Project (AMIP-2). *Journal of Geophysical Research-Atmospheres* 108(D12), 4369, doi:10.1029/2002JD003030.
- Robock, A., M. Mu, K. Vinnikov & D.A. Robinson (2003) Land surface conditions over Eurasia and Indian summer monsoon rainfall. *Journal of Geophysical Research – Atmospheres*, 108 (D4), 4131-4143.
- Brown, R.D., B. Brasnett & D.A. Robinson (2003) Gridded North American monthly snow depth and snow water equivalent for GCM validation. *Atmosphere-Ocean*, 41, 1-14.
- Gedzelman, S.D., S. Austin, R. Cermak, N. Stefano, S. Partridge, S. Quesenberry & D.A. Robinson (2003) Mesoscale aspects of the urban heat island around New York City. *Theoretical and Applied Climatology*, 75, 29-42.
- Roads, J. and 30 others, including D.A. Robinson (2003) GCIP Water and Energy Budget Synthesis (WEBS). *Journal of Geophysical Research*, 18 (D16), 8609, doi: 10.1029/2002JD002583.
- Medler, M.J., P. Montesano & D.A. Robinson (2002) Examining the relationship between snow cover and wildfire patterns in the western United States. *Physical Geography*, 23, 1-8.
- Leathers, D.J., T.L. Mote, A.J. Grundstein, D.A. Robinson, K. Felner, K. Conrad & L. Sedywitz (2002) Associations between continental scale snow cover anomalies and air mass frequencies across eastern North America. *International Journal of Climatology*, 22, 1473-1494.
- Brown, R., B. Brasnett & D.A. Robinson (2002) Development of a gridded North American snow depth and snow water equivalent dataset for GCM validation. *58th Eastern Snow Conference*. Ottawa, Canada, 333-340.

- Hartley, S. & D.A. Robinson (2000) A shift in winter season timing in the northern Plains as indicated by temporal analysis of heating degree days. *International Journal of Climatology*, 20, 365-379.
- Easterling, D.R., T.R. Karl, K.P. Gallo, D.A. Robinson, K.E. Trenberth, & A. Dai (2000) Observed climate variability and change of relevance to the biosphere. *Journal of Geophysical Research*, 20, 101-20,114.
- Robinson, D.A. & A. Frei (2000) Seasonal variability of northern hemisphere snow extent using visible satellite data. *Professional Geographer*, 51, 307-314.
- Frei, A. & D.A. Robinson (1999) Northern hemisphere snow extent: regional variability 1972-1994. *International Journal of Climatology*, 19, 1535-1560.
- Frei, A., D.A. Robinson & M.G. Hughes (1999) North American Snow Extent: 1900-1994. *International Journal of Climatology*, 19, 1517-1534.
- Clark, M.P., M.C. Serreze & D.A. Robinson (1999) Atmospheric controls on Eurasian snow extent. *International Journal of Climatology*, 19, 27-40.
- Frei, A. & D.A. Robinson (1998) Evaluation of snow extent and its variability in the Atmospheric Model Intercomparison Project. *Journal of Geophysical Research-Atmospheres*, 103, 8859-8871.
- Serreze, M.C., M.P. Clark, D.L. McGinnis & D.A. Robinson (1998) Characteristics of snowfall over the eastern half of the United States and relationships with principal modes of low-frequency atmospheric variability. *Journal of Climate*, 11, 234-250.
- Leathers, D.J., M.A. Palecki, D.A. Robinson & K.F. Dewey (1998) Climatology of the daily temperature range annual cycle in the United States. *Climate Research*, 9, 197-211.
- Robinson, D.A. (1997) Hemispheric snow cover and surface albedo for model validation. *Annals of Glaciology*, 25, 241-245.
- Leathers, D.J. & D.A. Robinson (1997) Abrupt changes in the seasonal cycle of North American snow cover. *Journal of Climate*, 10, 2569-2585.
- Hughes, M.G. & D.A. Robinson (1996) Historical snow cover variability in the Great Plains region of the USA: 1910 through to 1993. *International Journal of Climatology*, 16, 1005-1018.
- Robinson, D.A. (1996) Evaluating snow cover over northern hemisphere lands using satellite and in situ observations. *Proceedings of the 53rd Eastern Snow Conference*, Williamsburg, VA, 13-19.
- Hughes, M.G., A. Frei & D.A. Robinson (1996) Historical analysis of North American snow cover extent: merging satellite and station derived snow cover observations. *Proceedings of the 53rd Eastern Snow Conference*, Williamsburg, VA, Eastern Snow Conference, 21-31.
- Frei, A., D.A. Robinson & M.G. Hughes (1996) A regional analysis of North American snow cover extent: climatic and synoptic associations from November through March. *Proceedings of the 53rd Eastern Snow Conference*, Williamsburg, VA, Eastern Snow Conference, 33-42.
- Kuser, J.E. & D.A. Robinson (1996) Woody vegetation exchange zones: eastern North America and eastern Asia. *Bulletin of the New Jersey Academy of Sciences*, 41, 19-25.
- Robinson, D.A., A. Frei & M.C. Serreze (1995) Recent variations and regional relationships in northern hemisphere snow cover. *Annals of Glaciology*, 21, 71-76.
- Serreze, Mark C., M.C. Rehder, R.G. Barry, J.E. Walsh & D.A. Robinson (1995) Variations in aerologically-derived arctic precipitation and snowfall. *Annals of Glaciology*, 21, 77-82.
- Leathers, D.J., A.W. Ellis & D.A. Robinson (1995) Characteristics of temperature depressions associated with snow cover across the northeast United States. *Journal of Applied Meteorology*, 34, 381-390.
- Robinson, D.A., D.J. Leathers, M.A. Palecki & K.F. Dewey (1995) Some observations on climate variability as seen in daily temperature structure. *Atmospheric Research*, 37, 119-131.
- Serreze, M.C., J.A. Maslanik, J.R. Key, R.F. Kokaly & D.A. Robinson (1995) Diagnosis of the record minimum in Arctic sea ice area during 1990 and associated snow cover extremes. *Geophysical Research Letters*, 22, 2183-2186.
- Robinson, D.A. (1995) Weekly northern hemisphere snow cover. *Global Data Sets for Land-Atmosphere Models, ISLSCP Initiative 1: 1987-1988*, vol. 1, NASA (CD-ROM dataset and discussion).
- Brown, R.D., M.G. Hughes & D.A. Robinson (1995) Characterizing the long-term variability of snow cover extent over the interior of North America. *Annals of Glaciology*, 21, 45-50.
- Robinson, D.A. & D.J. Leathers (1993) Association between snow cover extent and surface air temperature over North America. *Proceeding of the 50th Anniversary Meeting of the Eastern Snow Conference*, 189-196.
- Frei, A. & D.A. Robinson (1993) North American snow cover variability from satellite data: 1972-1993 and comparison with model output. *Proceeding of the 50th Anniversary Meeting of the Eastern Snow Conference*, 43-50.

- Hughes, M.G. & D.A. Robinson (1993) Snow cover variability in the Great Plains of the United States 1910-1988. *Proceeding of the 50th Anniversary Meeting of the Eastern Snow Conference*, 35-42.
- Robinson, D.A., K. F. Dewey & R. Heim, Jr. (1993) Global snow cover monitoring: an update. *Bulletin of the American Meteorological Society*, 74, 1689-1696.
- Robinson, D.A. (1993) Hemispheric snow cover from satellites. *Annals of Glaciology*, 17, 367-371.
- Serreze, M.C., J.A. Maslanik, G.R. Scharfen, R.G. Barry & D.A. Robinson (1993) Interannual variations in snow melt over Arctic sea ice and relationships to atmospheric forcings. *Annals of Glaciology*, 17, 327-331.
- Robinson, D.A. (1993) Monitoring northern hemisphere snow cover. *Snow Watch '92: Detection Strategies for Snow and Ice. Glaciological Data Report*, GD-25, 1-25.
- Hughes, M.G. & D.A. Robinson (1993) Creating temporally complete snow cover records using a new method for modeling snow depth changes. *Snow Watch '92: Detection Strategies for Snow and Ice. Glaciological Data Report*, GD-25, 150-163.
- Leathers, D.J. & D.A. Robinson (1993) The association between extremes in North American snow cover extent and United States temperatures. *Journal of Climate*, 6, 1345-1355.
- Cao, M., P. Li, D.A. Robinson, T.E. Spies & G. Kukla (1993) Evaluation and primary application of microwave remote sensing SMMR-derived snow cover in western China. *Remote Sensing of Environment: China*, 8, 260-269.
- Robinson, D.A., M.C. Serreze, R.G. Barry, G. Scharfen & G. Kukla (1992) Large-scale patterns and variability of snow melt and parameterized surface albedo in the Arctic basin. *Journal of Climate*, 5, 1109-1119.
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- Brown, R., C. Derksen, B. Brasnett & D.A. Robinson (2005) Development of snow products for Cryosphere-climate studies and GCM evaluation. *Proceedings of the First Climate and Cryosphere (CliC) International Science Conference*, World Climate Research Program, World Meteorological Organization. Beijing, China, 25.
- Choi, G. & D.A. Robinson (2005) Potential relationships between vernal snow extent and atmospheric circulation in the northern hemisphere. *Abstracts: Association of American Geographers 101st Annual Meeting*. Denver, CO.
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- Frei, A., R. Brown, C. Derksen, G. Gong, J.A. Miller & D.A. Robinson (2005) Simulations of North American snow cover by AGCMs and AOGCs. *Proceedings of the 62nd Eastern Snow Conference*. Waterloo, Ontario.
- Choi, G., W-T Kwon, D.A. Robinson (2004) Fragmented urban heat islands in Seoul, Korea. *Proceedings 2004 Spring Korean Geographical Society Conference*, Gongju, Korea.

- Choi, G., W-T Kwon & D.A. Robinson (2004) Multi-urban heat islands in Seoul, Korea. *Proceedings 30th International Geographical Congress*, Glasgow, UK.
- Choi, G., D.W. Gwynn & D.A. Robinson (2004) Using ASTER TIR imagery to identify heat islands: a case study of New Jersey. *Abstracts: 2004 Spring Conference*. Korean Geographical Society.
- Robinson, D.A. (2004) Satellite-derived climate data record of snow cover into the 21st century. *Abstracts: Association of American Geographers 100th Annual Meeting*. Philadelphia, PA.
- Frei, A., H. Ye, R. Brown & D.A. Robinson (2004) Multidecadal variability of North American snow cover. *Abstracts: Association of American Geographers 100th Annual Meeting*. Philadelphia, PA.
- Leathers, D.J... & D.A. Robinson (2004) Snow cover ablation in the Appalachian Mountains: a microclimatic study. *Abstracts: Association of American Geographers 100th Annual Meeting*. Philadelphia, PA.
- Hall, D.K., J.L. Foster & D.A. Robinson (2004) Merging the MODIS and NESDIS monthly snow-cover records to study decade-scale changes in Northern Hemisphere snow cover. *IGARSS 2004*.
- Zhao, Y., D. Yang, D. Robinson, T. Estilow, M.J. Brodzik & R. Armstrong (2003) Streamflow response to snowcover extent and mass changes in large northern rivers. *Abstracts: 54th Arctic Science Conference*, Fairbanks, AK, American Association for the Advancement of Science.
- Robinson, D.A. & T. Estilow (2003) A blended snow cover dataset. *Snow Watch 2002*, Silver Spring, MD. *Glaciological Data*, Report GD-32, National Snow and Ice Data Center, Boulder, CO., 11.
- Robinson, D.A. (2003) The Northern Hemisphere spring snow "drought". *Snow Watch 2002*, Silver Spring, MD. *Glaciological Data*, Report GD-32, National Snow and Ice Data Center, Boulder, CO., 14.
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- Frei, A., J. Miller, D.A. Robinson, R. Brown, T. Mote & A. Grundstein (2003) Preliminary results from AMIP-2: snow extent and water equivalent simulations. *Snow Watch 2002*, Silver Spring, MD. *Glaciological Data*, Report GD-32, National Snow and Ice Data Center, Boulder, CO., 116.
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- Roads, J. and 30 others (2003) GCIP water and energy budget synthesis (WEBS). 17th Conference on Hydrology, American Meteorological Society, paper 50322.
- Choi, G., W.T. Kwon & D.A. Robinson (2003) Changes of natural seasonal cycles during the 20th century in South Korea. *Abstracts: Association of American Geographers 99th Annual Meeting*. New Orleans, LA.
- Mote, T.L. & D.A. Robinson (2002) Evaluation of a quality controlled daily snow depth data set for the continental United States. *Snow Watch 2002*, Silver Spring, MD.
- Robinson, D.A. (2002) The Northern Hemisphere's spring snow "drought". *Symposium on Deciphering the Complex Changes in Global Snow and Ice*. American Association for the Advancement of Science Annual Meeting, Boston, MA, A25.
- Frei, A., J. Miller, D.A. Robinson, R. Brown, T. Mote & A. Grundstein (2002) Evaluation of AMIP-2 snow cover simulations. *AMIP-2 Conference*, Paris, France.
- Yank, D., Y. Zhau and D.A. Robinson (2002) Streamflow response to snow cover extent change in large Siberia rivers. *American Association for the Advancement of Science Arctic Science Conference*, Fairbanks, AK.
- Robock, A., M. Mu, K.Y. Vinnikov & D.A. Robinson (2002) The observed relationship between snow cover, soil moisture, and the Indian summer monsoon. *27th General Assembly of the European Geophysical Society*, Nice, France.
- Brown, R., B. Brasnett & D.A. Robinson (2002) Development of a gridded North American snow depth and water equivalent dataset for GCM validation – results with an enhanced snowpack model. *59th Eastern Snow Conference*.
- Robinson, D.A., D.J. Leathers, T.L. Mote, A. Grundstein & A. Frei (2001) Evaluation of snow cover across grassland regions: an update. *NASA/NOAA GAPP and Hydrology Principal Investigators Meeting*, Potomac, MD.
- Robock, A., M. Mu, K. Vinnikov & D.A. Robinson (2001) The observed relationship between snow cover, soil moisture, and the Asian monsoon. *International Association of Meteorology and Atmospheric Sciences Congress*, Innsbruck, Austria.

- Robock, A., M. Mu, K. Vinnikov, D.A. Robinson & G. Srinivasan (2001) The relationship between soil moisture, snow cover, and the Asian monsoon. *Proceedings of the 4th International GEWEX Meeting*, Paris, France.
- Robinson, D.A. (2001) A Garden State Soaking from Hurricane Floyd. *Abstracts: Association of American Geographers 97th Annual Meeting*. New York, NY.
- Ramsay, B.H. & D.A. Robinson (2001) Comparison of the NESDIS weekly and daily Northern Hemisphere snow cover products. *58th Eastern Snow Conference*, Ottawa, Ontario.
- Robinson, D.A. (2000) Weekly Northern Hemisphere Snow Maps: 1966-1999. *12th Conference on Applied Climatology*, American Meteorological Society, Asheville, NC.
- Robinson, D.A. (2000) Hurricane Floyd precipitation in New Jersey. *12th Conference on Applied Climatology*, American Meteorological Society, Asheville, NC.
- Robinson, D.A. & A. Bamzai (2000) Snow-temperature associations across Northern Hemisphere lands. *Abstracts: Association of American Geographers 96th Annual Meeting*. Pittsburgh, PA.
- Ramsay, B., D. Tarpley & D.A. Robinson (2000) The Interactive Multisensor Snow and Ice Mapping System revisited. *Proceedings Spring 2000 Meeting of the American Geophysical Union*. Baltimore, MD.
- Robinson, D.A., D.J. Leathers, T.L. Mote & A. Frei (1999) Evaluation of Snow Water Equivalent Across Grassland Regions: An Initial Report. NASA Land Surface Hydrology Program Investigators Meeting, Columbia, MD, NASA.
- Frei, A., A.W. Nolin, M.C. Serreze, R.L. Armstrong, D.L. McGinnis, & D.A. Robinson (1999) Investigating downscaling methods and evaluating climate models for use in estimating regional water resources in mountainous regions under changing climatic conditions. NASA Land Surface Hydrology Program Investigators Meeting, Columbia, MD, NASA.
- Hartley, S. & D.A. Robinson (1999) Atlantic sea surface temperatures and eastern United States climate, 1950-1992. *8th American Meteorological Society Conference on Climate Variations*, Denver, CO.
- Zdanowiczl, C.M., G.A. Zielinski, D.A. Robinson & C.P. Wakel (1998) Northern Hemisphere snow cover control on atmospheric dust loading: evidence from a new arctic ice core. *Abstracts: Dust Aerosols, Loess and Global Change Interdisciplinary Conference*, Seattle, WA.
- Robinson, D.A. (1998) Northern Hemisphere Snow Extent During the Satellite Era. *Abstracts: Middle States Division of the Association of American Geographers Meeting*.
- Robinson, D.A. (1998) The Montague snowstorm of January 11-12, 1997. *Proceedings of the 55th Eastern Snow Conference*.
- Hartley, S. & D.A. Robinson (1998) A shift in winter season timing in the northern Plains as indicated by temporal analysis of heating degree days. *Abstracts: Association of American Geographers 94th Annual Meeting*.
- Robinson, D.A. (1997) Monitoring Snow Cover From Space. *Transactions American Geophysical Union*, 78.
- Frei, A., M.G. Hughes & D.A. Robinson (1997) North American snow extent: November through April 1910-1993. *Abstracts: Association of American Geographers 93rd Annual Meeting*, 83.
- Frei, A., M.G. Hughes & D.A. Robinson (1997) Fluctuations in North American snow extent: 1910-1994. *Transactions American Geophysical Union*, 78.
- Serreze, M.C., M.P. Clark, D.L. McGinnis & D.A. Robinson (1997) The Pacific North American teleconnection signal of eastern U.S. snowfall. *Abstracts: Association of American Geographers 93rd Annual Meeting*, 238.
- Frei, A., M.G. Hughes & D.A. Robinson (1997) North American regional and continental scale snow extent: November through April 1910-1993. *Proceedings of the Seventh Conference on Climate Variations*, American Meteorological Society.
- Robinson, D.A., A. Frei & J.J. Wright (1996) Northern hemisphere snow cover fluctuations during the satellite era. *Abstracts: Association of American Geographers 92nd Annual Meeting*, 251.
- Frei, A. & D.A. Robinson (1996) Regional snow cover fluctuations in the northern hemisphere derived from satellite observations. *Abstracts: Association of American Geographers 92nd Annual Meeting*, 93.
- Robinson, D.A. (1995) Variations in snow cover over northern hemisphere lands: 1972-present. *Transactions American Geophysical Union*, 76.
- Robinson, D.A., D.J. Leathers, M.A. Palecki and K.F. Dewey (1995) Annual cycle of daily temperature range across the United States. *Association of American Geographers 91st Annual Meeting*.
- Frei, A. & D.A. Robinson (1995) Northern hemisphere regional snow cover: A comparison of observations and model results. *Association of American Geographers 91st Annual Meeting*.

- Frei, A. & D.A. Robinson (1994) A regional analysis of northern hemisphere snow cover extent. *Middle States Division of the Association of American Geographers Meeting*.
- Robinson, D.A. (1994) Issues concerning the quality of daily climatic data. *Abstracts: Association of American Geographers 90th Annual Meeting*, 320.
- Frei, A. & D. A. Robinson (1994) Comparisons of GCM Northern Hemisphere snow cover simulations to observations. *Abstracts: Association of American Geographers 90th Annual Meeting*, 112-113.
- Hughes, M.G., D.A. Robinson & R.D. Brown (1994) Snow cover variability over the United States Great Plains and the Canadian prairies. *Abstracts: Association of American Geographers 90th Annual Meeting*, 169.
- Spies, T.E., D.A. Robinson & S.L. Madry (1993) GIS in the development of regional microwave-based snow cover algorithms. *Proceedings of the 8th Annual GRASS GIS User's Conference*.
- Robinson, D.A., D.J. Leathers, M.A. Palecki & K. Dewey (1993) Climate variability as seen in daily temperature structure. *Program and Abstracts: Minimax Workshop, DOE/NOAA*, 16.1-16.4.
- Robinson, D.A. (1993) Hemispheric snow cover from visible and microwave satellite sensors. *Abstracts: Association of American Geographers 89th Annual Meeting*, 202.
- Frei, A. & D.A. Robinson (1993) Northern Hemisphere snow climatology: comparing satellite data to modeling output. *Abstracts: Association of American Geographers 89th Annual Meeting*, 75.
- Leathers, D.J. & D.A. Robinson (1993) The association between extremes in North American snow cover extent and United States temperature. *Abstracts: Association of American Geographers 89th Annual Meeting*, 133.

PROFESSIONAL PRESENTATIONS

Conference presentations:

Presented 148 papers at regional, national and international conferences: 1980-present and 127 invited lectures: 1987-present.

Presentations at conferences since 1993:

- New Jersey Climate Variability and Change. Restoration and Resilience in New Jersey's Forests Conference, Hillsborough, NJ, 2013 (invited)
- Sandy's Fury. 5th Annual S.T.E.M. Conference. Garden State Louis Stokes Alliance for Minority Participation, Piscataway, NJ, 2013 (keynote)
- Applications of Remotely Sensed Snow Cover Information to Regional and Hemispheric Climate Studies. NASA Snow Remote Sensing Workshop, Boulder CO. 2013 (invited)
- Sandy Strikes the Garden State: Where Do We Go From Here? Mid Atlantic Conference of the American Water Resources Association, West Windsor, NJ, 2013 (invited)
- New Jersey State Climate Office Service and Sandy. New Jersey Department of Environmental Protection Hurricane Sandy Research Forum, Trenton, NJ, 2013.
- Northern Hemisphere Snow Cover Extent. Climate Data Records in Operation Workshop. Asheville, NC, 2013 (invited)
- Urban Influences on Temperature in New Jersey. DIMACS/CCICADA Workshop on Urban Planning for Climate Events, Piscataway, NJ, 2013 (invited)
- Sandy's Fury: Reflections from the Office of the NJ State Climatologist. American Association of State Climatologists Annual Meeting. St. Louis, MO, 2013 (invited)
- Forthcoming Northern Hemisphere Snow and Ice Earth System Data Records. American Geophysical Union Fall Meeting, San Francisco, CA, 2013.
- Sandy's Fury. DIMACS/CCICADA Workshop on S&T Innovations in Hurricane Sandy Research, Piscataway, NJ, 2013 (invited)
- Sandy from Meteorological and Climatological Perspectives, Sandy mini-conference, Piscataway, NJ 2013 (with Steven Decker)
- Flood Mitigation and Hazard Reduction Now, Raritan-Millstone Flood Commission conference, Branchburg, NJ, 2013 (invited)
- Sandy's Fury from Weather and Climate Perspectives. Panel on Superstorm Sandy: Transportation Challenges and Research Opportunities in the Aftermath of a Disaster. National Transportation Research Board Annual Meeting, Washington, DC, 2013 (invited)
- How Is New Jersey's Climate Changing and What Should We Expect? Sustainable Jersey Climate Change and Flooding Forum, Egg Harbor Township, NJ, 2013 (invited)
- How Is New Jersey's Climate Changing and What Should We Expect? Sustainable Jersey Climate Change and Flooding Forum, New Brunswick, NJ, 2013 (invited)

Climate Change Communication from a State Climate Services Perspective. Special Panel at American Meteorological Society Annual Meeting, Austin, TX, 2013 (invited)

Variability in the annual cycle of Northern Hemisphere snow extent using a newly complete climate data record. American Geophysical Union Fall Meeting. San Francisco, CA, 2012.

Hemispheric to Regional Dimensions of Snow Cover Extent, 69th Annual Eastern Snow Conference, Claryville, NY, 2012 (invited keynote)

Potential Climate Change Impacts on Flooding in the Passaic River Basin. Passaic River Basin Flood Preparedness Workshop. Wayne, NJ, 2012 (invited)

Observing New Jersey's Weather in Support of Emergency Operations, NJ Emergency Preparedness Conference, Atlantic City, NJ, 2012

Recent NJ Flooding: a Weather/climate Perspective. Treating Flooding as the "New Normal" session. New Jersey Future Redevelopment Forum, New Brunswick, NJ, 2012 (invited)

Whys and Wherefores of Raritan Flooding. Blue Infrastructure Mitigation and Managing When There is Too Much Water Symposium. Sustainable Raritan River Engineering Council, Sayreville, NJ, 2012 (invited)

Hemispheric Snow Cover Extent Since the Late 1960s. Annual Meeting of the Association of American Geographers, New York City, NY, 2012 (invited)

New Jersey Precipitation Observations from Multiple Sources. 99th Annual Meeting of the New Jersey Mosquito Control Association, Atlantic City, NJ, 2012

Irene: A Physical Perspective. Annual Meeting of the Association of American Geographers, New York City, NY, 2012 (invited)

Hemispheric snow cover during the satellite era. 24th Conference on Climate Variability and Change, American Meteorological Society, New Orleans, LS, 2012.

Integrated Northern Hemisphere terrestrial snow extent climate datasets. American Geophysical Union Fall Meeting, San Francisco, CA, 2011

New Jersey's Changing Climate and Potential Infrastructure Issues. Preparing New Jersey for Climate Change: A Workshop for Decision Makers, New Brunswick, NJ, 2011 (invited)

An updated record of Northern Hemisphere spring snow cover extent with estimates of uncertainty, 1922-2010. American Geophysical Union Fall Meeting, San Francisco, CA, 2011.

Hurricane Irene and New Jersey Climate Extremes. Hurricane Irene Symposium, Rutgers University, Piscataway, 2011 (invited)

Inland Climate Change Issues: Contributions from State Climate Offices. Inland Impacts of Climate Change Workshop, Northeast Regional Climate Center, Ithaca, NY, 2011 (invited)

Development of a New Jersey Snowfall Climatology (1895-Present). 19th Conference on Applied Climatology, American Meteorological Society, Asheville, NC, 2011

Quality Snow Observations: A Jersey to Global Perspective. Federal Emergency Management Agency/National Oceanic and Atmospheric Administration snow advisory working group. Estes Park, CO, 2011 (invited)

NJ Pinelands Climate. Pinelands Short Course. Pemberton, NJ, 2011 (invited)

What is happening with the cryosphere? 6th European Association of Remote Sensing Labs Land Ice and Snow Special Interest Group Workshop, Bern, Switzerland, 2011 (keynote).

Comparing GlobSnow and NOAA IMS snow maps. 6th European Association of Remote Sensing Labs Land Ice and Snow Special Interest Group Workshop, Bern, Switzerland, 2011 (invited).

New Jersey's Changing Climate. National Resource Conservation Service "All New Jersey Employees" meeting. Bordentown, NJ, 2010 (invited)

Delaware River Flooding, Past, Present, Future?. Flood Warning User Forum, Delaware River Basin. Easton, PA, (keynote)

Raritan Basin Climate: Past to Future. 2nd Annual Sustainable Raritan River Symposium, New Brunswick, NJ, 2010 (invited)

The Climatological Dimensions of Extreme Weather Events. DIMACS/CCICADA Workshop on Modeling and Mitigation of the Impacts of Extreme Weather Events to Human Health Risks, Piscataway, NJ, 2010 (invited)

Northern Hemisphere Snow Cover Extent During the Satellite Era. Annual Meeting of the Association of American Geographers, Washington, DC, 2010 (invited)

Climate and the Raritan River Basin. Ecology of the Raritan Symposium. Rutgers University, New Brunswick, NJ, 2010 (invited)

Northern Hemisphere Snow Cover Extent During the Satellite Era. 22nd Symposium on Climate Variability and Change, American Meteorological Society, Atlanta, GA, 2010.

State Climate Offices Providing Stakeholder-driven Climate Services at the Local Level. 18th Conference on Applied Climatology, American Meteorological Society, Atlanta, GA, 2010.

A Northern Hemisphere Snow Extent Climate Data Record. 2009 American Geophysical Union Fall Meeting. San Francisco, CA, 2009. (invited)

Development of Northern Hemisphere Snow Extent Earth System Data Records. 2009 American Geophysical Union Fall Meeting. San Francisco, CA, 2009. (invited)

Northern Hemisphere snow extent during the satellite era. International Association for Cryospheric Sciences Conference, Montreal, Quebec, 2009 (invited)

New Jersey Flood Frequency – Variability or Trend? New Jersey Association for Floodplain Management Annual Conference, Somerset, NJ, 2009 (keynote)

Climate Change and New Jersey's Freshwater System. Symposium on Safeguarding New Jersey's Wildlife and Natural Systems in a Changing Climate, Bordentown, NJ, 2009 (invited)

New Jersey's Changing Climate. Documents Association of New Jersey, Princeton, NJ, 2009 (keynote)

New Jersey's Changing Climate. NJ Agricultural Summit, Bordentown, NJ, 2009 (keynote)

New Jersey's Community Collaborative Rain, Hail and Snow Network. Science Education for New Civic Engagements and Responsibilities Mid Atlantic Spring Conference. Piscataway, NJ, 2009

Real time monitoring of weather conditions for homeland security purposes. 8th NJ Universities Homeland Security Research Consortium Symposium. Princeton, NJ, 2008.

Elements of Successful Cryospheric Climate Data Records. 2008 American Geophysical Union Fall Meeting. San Francisco, CA, 2008

CoCoRaHS: Community Collaborative Rain, Hail and Snow Network. 6th Annual Volunteer Monitoring and Education Summit, NJ Department of Environmental Protection, Whippany, NJ, 2008.

New Jersey's weather hazards. Weather and Environmental Hazards: The Challenges of Awareness, Research and Education in New Jersey. Kean University, 2008 (keynote).

The weather outside is frightful...or is it? New Jersey's Annual Afterschool Conference, New Jersey School Age-Care Coalition, Princeton, NJ, 2008.

Historical evaluation of NOAA snow maps. Snow Mapping Workshop, National Ice Center, Suitland, MD, 2008

The New Jersey Weather and Climate Network: a dense, multipurpose network of networks. 17th Conference on Applied Climatology, American Meteorological Society, Whistler, BC, 2008

Operational ranking of U.S. snowfall events. 17th Conference on Applied Climatology, American Meteorological Society, Whistler, BC, 2008.

New Jersey's water resources: a state climatologist's perspective. Rutgers Climate and Environmental Change Initiative Conference on the impacts of climate change on water resources. New Brunswick, NJ, 2008 (invited)

Northern Hemisphere snow extent monitoring. Snow Workshop. Environment Canada, Toronto, ON, 2008.

An improved Northern Hemisphere snow extent data record. American Geophysical Union Fall Meeting. San Francisco, CA, 2007.

Temporal and spatial changes in Northern Hemisphere floating climatological seasons. 2007 American Geophysical Union Fall Meeting. San Francisco, 2007

The April 2007 Nor'easter. Annual Conference of the NJ Association for Floodplain Management, Somerset, NJ, 2007 (invited).

A climate data record of hemispheric snow cover extent during the satellite era. Joint Meeting of the Canadian Meteorological and Oceanographical Society, the American Meteorological Society's Ninth Conference on Polar Meteorology and Oceanography and the Eastern Snow Conference, St. John's, Newfoundland, 2007.

Climate change and impacts on water resource management. 17th Annual Regional Assembly, Regional Plan Association, New York, NY, 2007 (invited).

Tropical storm and hurricane climatology with a NJ focus. Workshop on Hurricane Readiness for Coastal Communities, NJ Emergency Preparedness Conference. Atlantic City, 2007 (invited).

New Jersey's changing climate. 2007 Meadowlands Symposium. Lyndhurst, NJ, 2007.

A hemispheric snow cover extent climate data record. Annual Meeting of the Association of American Geographers, San Francisco, CA, 2007

New Jersey's Changing Climate. 22nd Annual New Jersey Environmental Education Conference, The Alliance for New Jersey Environmental Education, Princeton, NJ, 2007 (invited).

State climatologists serving the public through interactions with the media. 16th Conference on Applied Climatology, American Meteorological Society, San Antonio, TX, 2007 (invited)

Issues of drought within a state climate office. 16th Conference on Applied Climatology, American Meteorological Society, San Antonio, TX (2007)

Improved monitoring of hemispheric snow cover extent. 19th Conference on Climate Variability and Change, American Meteorological Society, San Antonio, TX (2007)

New Jersey Drought Monitoring. Conference on Managing Drought and Water Scarcity in Vulnerable Environments, Geological Society of America, Longmont, CO, 2006.

Monitoring drought in the Garden State. Annual Conference of the Middle States Division of the Association of American Geographers, New Brunswick, NJ, 2006.

Addressing drought: a state climatologist's perspective. NOAA and the Drought Challenge, Santa Fe, NM, 2006. (invited)

The NJ WeatherNet. Stevens-NJ Sea Grant Coastal Stakeholders Workshop, Hoboken, NJ, 2006. (invited)

Quality control and trends in 20th century US snowfall. American Association of State Climatologists 31st annual meeting, Rapid City, SD, 2006.

Issues with identification of trends in 20th century US snowfall. Eastern Snow Conference 63rd Annual Meeting, Newark, DE, 2006.

Monitoring New Jersey drought. National Integrated Drought Information System Interim Steering Group Meeting, Lincoln, NE, 2006. (invited)

Trends and variability of snowfall and snow cover across North America and Eurasia. Part 2: What the data say. 17th Symposium on Global Change and Climate Variations. American Meteorological Society, Atlanta, GA, 2006.

Elements of a successful climate data records generation program. 2005 American Geophysical Union Fall Meeting. San Francisco, CA, 2005. (invited)

Trends and variability of snowfall and snow cover across North America and Eurasia. Part 1: Data Quality and homogeneity analysis. 2005 American Geophysical Union Fall Meeting. San Francisco, CA, 2005.

Trends and variability of snowfall and snow cover across North America and Eurasia. Part 2: What the data say. 2005 American Geophysical Union Fall Meeting. San Francisco, CA, 2005.

The New Jersey Weather and Climate Network: providing environmental information for a myriad of applications. 15th Conference on Applied Climatology, American Meteorological Society, Savannah, GA, 2005.

Northern Hemisphere snow cover variability over the past century. First Climate and Cryosphere (CliC) International Science Conference, Beijing, China, 2005

Snow mass over North America: observations and results from the second phase of the Atmospheric Model Intercomparison Project (AMIP-2). First Climate and Cryosphere (CliC) International Science Conference, Beijing, China, 2005

Blended snow cover products. NASA EOS Snow and Ice Products User Workshop, Landover, MD, 2004

Satellite-derived climate data record of snow cover into the 21st century. Association of American Geographers 100th Annual Meeting. Philadelphia, PA., 2004.

Climate services from the state climatologist perspective. 14th Applied Climatology Conference. Seattle, WA. American Meteorological Society, 2004.

Northern Hemisphere snow cover variability. 15th Symposium on Global Change and Climate Variations and 14th Applied Climatology Conference. Seattle, WA. American Meteorological Society, 2004.

A climate report card for New Jersey. 15th Symposium on Global Change and Climate Variations and 14th Applied Climatology Conference. Seattle, WA. American Meteorological Society, 2004.

Snow melt season in the central Arctic. Central Arctic: Battleground of Natural and Man-Made Climate Forcing, Lamont International Mini-conference. Lamont-Doherty Earth Observatory of Columbia University, Palisades, NY, 2004.

Midwest Winter Weather. Midwest Extreme and Hazardous Weather Regional Conference, Central Illinois Chapter of the American Meteorological Society, Champaign, IL, 2003.

Recent variability of northern hemisphere snow cover. Seventh Conference on Polar Meteorology and Oceanography, American Meteorological Society, Hyannis, MA, 2003.

The Northern Hemisphere's spring snow "drought". Annual Meeting of the Association of American Geographers, New Orleans, LA, 2003.

The Northern Hemisphere's spring snow drought (invited). Symposium on Deciphering the Complex Changes in Global Snow and Ice. American Association for the Advancement of Science Annual Meeting, Boston, MA, 2002.

A Blended Snow Cover Dataset. Snow Watch 2002, Silver Spring, MD, 2002.

The Northern Hemisphere Spring Snow "Drought". Snow Watch 2002, Silver Spring, MD, 2002.

Quality assessment of monthly temperature data. 13th Conference on Applied Climatology, American Meteorological Society, Portland, OR, 2002.

Snow cover data for applied climate studies. 13th Conference on Applied Climatology, American Meteorological Society, Portland, OR, 2002.

Developing a blended continental snow cover dataset. Symposium on Observations, Data Assimilation, and Probabilistic Prediction, American Meteorological Society, Orlando, FL, 2002.

Development of an SQL database with real-time Java maps for the NJ WxNet. 18th International Conference on Interactive Information Processing Systems for Meteorology, Oceanography and Hydrology, American Meteorological Society, Orlando, FL, 2002.

The New Jersey Weather and Climate Network. New Jersey Hurricane Conference, Atlantic City, NJ, 2001.

Snow cover and water equivalent in the Great Plains. Investigators Workshop, NASA GAPP Program, Potomac, MD, 2001.

A Garden State Soaking from Hurricane Floyd. Annual Meeting of the Association of American Geographers, New York, NY, 2001.

Evaluating Northern Hemisphere snow cover during the satellite era: variations in extent and associations with temperature. 12th Symposium on Global Change and Climate Variations. American Meteorological Society, Albuquerque, NM, 2001.

Educational outreach activities of a state climate office. 10th Symposium on Education. American Meteorological Society, Albuquerque, NM, 2001.

Northern Hemisphere snow cover: 1966-present. 25th Annual Climate Diagnostics and Prediction Workshop, Palisades, NY. National Oceanic and Atmospheric Administration, 2000.

Snow-temperature associations across Northern Hemisphere lands. Annual Meeting of the Association of American Geographers, Pittsburgh, PA, 2000.

Weekly Northern Hemisphere Snow Maps: 1966-1999. 12th Conference on Applied Climatology, American Meteorological Society, Asheville, NC, 2000.

Hurricane Floyd precipitation in New Jersey. 12th Conference on Applied Climatology, American Meteorological Society, Asheville, NC, 2000.

Issues concerning the quality of climate data. Workshop: Hedging With Weather Derivatives: How reliable are seasonal predictions of temperature and precipitation anomalies? Risk Prevention Initiative: Bermuda Biological Station for Research, St. Georges, Bermuda, 1999.

Northern Hemisphere snow extent during the satellite era. 5th Conference of Polar Meteorology and Oceanography, American Meteorological Society, Dallas, TX, 1999.

Transition from NOAA weekly to daily hemispheric snow charts. 10th Symposium on Global Change, American Meteorological Society, Dallas, TX, 1999.

Northern Hemisphere snow extent during the satellite era. Middle States Division of the Association of American Geographers Meeting, New Brunswick, NJ, 1998.

The Montague, NY snowstorm of January 11-12, 1997. 55th Eastern Snow Conference, Jackson, NH, 1998. (keynote)

Gathering climatic data of the highest quality. 10th Conference on Applied Climatology, Reno, NV, 1997.

A Northern Hemisphere snow cover climatology using satellite information. 10th Conference on Applied Climatology, Reno, NV, 1997.

A multi-source snow cover database for northern hemisphere lands. 10th Conference on Applied Climatology, Reno, NV, 1997.

Monitoring Snow Cover from Space. Spring Meeting of the American Geophysical Union, Baltimore, MD, 1997.

North American snow extent: November through April 1910-1993. Annual Meeting of the Association of American Geographers, Fort Worth, TX, 1997.

Hemispheric snow cover and surface albedo for model validation. International Glaciological Society Meeting, Victoria, BC, 1996.

Evaluating snow cover over northern hemisphere lands using satellite and in situ observations. 53rd Eastern Snow Conference, Williamsburg, VA, 1996.

Variations in Snow Cover Over Northern Hemisphere Lands: 1972-present. Fall Meeting of the American Geophysical Union, San Francisco, CA, 1995.

An analysis of the NOAA satellite-derived snow cover record, 1972-present. MODIS Snow and Ice Workshop, Reston, VA, 1995.

Annual cycle of daily temperature range across the United States. Annual Meeting of the Association of American Geographers, Chicago, IL, 1995

Recent variations and regional relationships in northern hemisphere snow cover. International Glaciological Society Meeting, Columbus, OH, 1994.

Issues concerning the quality of daily climatic data. Annual Meeting Association of American Geographers, San Francisco, CA, 1994.

Snow cover variability over the United States Great Plains and the Canadian prairies. Annual Meeting Association of American Geographers, San Francisco, CA, 1994.

Northern Hemisphere snow cover: recent variations in historic perspective. 18th Annual Climate Diagnostics Workshop, Boulder, CO, 1993.

Climate variability as seen in daily temperature structure. Minimax Workshop, DOE/NOAA, College Park, MD, 1993.

Relationships between snow cover extent and surface air temperature over North America. 50th Annual Meeting of the Eastern Snow Conference, Quebec City, Quebec, 1993.

Hemispheric snow cover from visible and microwave satellite sensors. Annual Meeting Association of American Geographers, Atlanta, GA, 1993.

Recent trends in northern hemisphere snow cover. Fourth Symposium on Global Change Studies, American Meteorological Society, Anaheim, CA, 1993.

Historical daily climatic data for the United States. Eighth Conference on Applied Climatology, American Meteorological Society, Anaheim, CA, 1993.

Monitoring snow cover on the Tibetan Plateau using microwave satellite data. ESA/NASA International Workshop on Passive Microwave Remote Sensing Research Related to Land-Atmosphere Interactions, St-Lary, France, 1993.

Invited presentations since 1987:

China National Meteorological Bureau Modern Meteorology Management Delegation, Piscataway, NJ 2015

New Jersey Utilities Association, Galloway, NJ, 2014

Northern NJ-Newark/Jersey City Urban Area Security Initiative meeting, Parsippany, NJ, 2014

Madison Public Library, Madison, NJ, 2014

Sustainable Cherry Hill, Cherry Hill, NJ, 2014

Princeton Flying Tigers, Hillsborough, NJ, 2014

Physics Department, The College of New Jersey, Lawrenceville, NJ, 2014

NJ Public Works Association Annual Meeting, Atlantic City, NJ 2014

Consortium of Universities for the Advancement of Hydrologic Sciences (webinar), 2014

Closter Nature Center, Closter, NJ, 2014

ExxonMobil Research and Engineering Center, Annandale, NJ, 2014

St. James Elementary School, Red Bank, NJ, 2014

Sunset Central Bergen Rotary, Paramus, NJ 2014

Rutgers Silver Knights, New Brunswick, NJ, 2014

Hillsborough Middle School, Hillsborough, NJ, 2014

Ying Hua International School, Princeton, NJ, 2014

Climate Solutions University (webinar), 2014

Shrewsbury River Flood Warning System Stakeholders, Rumson, NJ, 2014

S.T.E.M. Professional Lecture Series, Passaic County Community College, Paterson, NJ, 2013

Lawrence Brook Watershed Partnership, Milltown, NJ, 2013

Rural Awareness Organization, Quakertown, NJ, 2013

Bradley Beach Middle School, Bradley Beach, NJ, 2013

Upper Deerfield Township Environmental Commission, Upper Deerfield, NJ, 2013

Landscape Architecture Resiliency Panel, Rutgers University, New Brunswick, NJ, 2013

Whitney Symposium: Upward Bound Program, Piscataway, NJ, 2013

Valley Settlement House, West Orange, NJ, 2013

Morven Minority Summer Intern Program, Princeton, NJ 2013

Rutgers Junior Leadership Training Program, New Brunswick, NJ, 2013

The Nature Conservancy, New Jersey Chapter, Highlands, NJ, 2013
 Ivy+ IT Auditors Conference, New Brunswick, NJ, 2013
 Rutgers Retired Professors Association, New Brunswick, NJ, 2013
 New Jersey Emergency Preparedness Conference Workshop on Hazardous Weather and Flooding Preparedness, Atlantic City, NJ, 2013
 Franklin Township, NJ (Somerset County) Senior Citizen Center, 2013
 Meadow Lake Senior Living Community, East Windsor, NJ, 2013
 Concordia Astronomy and Science Club, Monroe, NJ, 2013
 Chevron Services Company (webinar), 2013
 New Jersey Bar Association, New Brunswick, NJ, 2013
 National Academies Board of Atmospheric Sciences and Climate, Washington, DC, 2013
 New Jersey Chapter of the Solid Waste Association of North America, Atlantic City, NJ, 2013
 Model Forest Policy Program, Climate Solutions University webinar presentation: "Climate Assessment: Networks and Resources", 2013
 Keyport Yacht Club, Keyport, NJ, 2013
 Stony Brook – Millstone Watershed Association, Pennington, NJ, 2013
 DeVry University, North Brunswick, NJ, 2013
 Stonebridge at Montgomery Senior Living Community, 2013
 Liberty Science Center, Jersey City, NJ, 2012
 Raritan Headwaters Association, Flemington, NJ, 2012
 Model Forest Policy Program, Climate Solutions University webinar presentation: "Climate Assessment: Networks and Resources", 2012
 NJ-4H Climate and Environmental Change Teen Summit, New Brunswick, NJ 2012
 Rutgers Cooperative Extension 4-H Master Tree Stewards, Westfield, NJ, 2012
 American Meteorological Society Delaware/Philadelphia Chapter, Mt. Holly, NJ, 2012
 New Jersey Association of City and County Health Officials Annual Meeting, Holmdel, NJ, 2012
 St. Benedict Prep School, Newark, NJ, 2012
 Community Collaborative Rain, Hail and Snow Network webinar presentation: "In the Mood for Snow", 2011
 NOAA Geophysical Fluid Dynamics Laboratory, Princeton, NJ, 2011
 Brick Kiwanis Club, Brick, NJ, 2011
 Valley Settlement House, West Orange, NJ, 2011
 Milltown Environmental Commission, Piscataway, NJ, 2011
 Livingston Water Summit, Livingston, NJ, 2011
 Rutgers Faculty Retirees Association, New Brunswick, NJ, 2011
 Higher Education, Resources and Opportunities for Exceptional Scholars Conference, New Brunswick, NJ, 2011
 Prudential Fixed Income Group, West Orange, NJ, 2011
 Raritan Valley Community College Environmental Science Seminar, Branchburg, NJ, 2011
 North Jersey Transportation Authority, Newark, NJ, 2010
 Valley Settlement House, West Orange, NJ, 2010
 NJ 4-H Climate Change Investigations Professional Development Workshop, New Brunswick, NJ, 2010
 Concordia Astronomy and Science Club, Monroe, NJ, 2010
 Hunterdon County Planning Board, Flemington, NJ, 2010
 Delaware Valley Geographic Association, Fort Washington, PA, 2010
 Sustainable Cherry Hill Association, Cherry Hill, NJ, 2010
 Rutgers Global Affairs Colloquium on Global Threats, Rutgers Center on Public Security, Newark, NJ 2009
 Marine Activities Resources and Education (MARE) follow-up Workshop, New Brunswick, NJ, 2009
 New Jersey Museum, Trenton, NJ, 2009
 Department of Landscape Architecture, Rutgers University, New Brunswick, NJ, 2009
 Marine Activities Resources and Education (MARE) Workshop, Tuckerton, NJ, 2009
 Valley Settlement House, West Orange, NJ, 2009
 Clifton High School, Clifton, NJ, 2009
 Long Hill Library, Long Hill Township, NJ, 2009
 Great Swamp Watershed Association, Harding Township, NJ, 2009
 New Jersey Clean Water Council, Lawrenceville, NJ, 2009
 Department of Statistics, Rutgers University, Piscataway, NJ, 2009

Raritan Valley District Leaders Round Table, Boy Scouts of America, Manville, NJ, 2009
 Drexel University, Philadelphia, PA, 2009
 NJ Agribusiness Association Annual Conference, Bordentown, NJ, 2008
 Stout Lecture, Department of Geosciences, University of Nebraska, Lincoln, NE, 2008
 Springfield, NJ Public Library, Springfield, NJ, 2008
 Atlantic County Library, Mays Landing, NJ, 2008
 Madison, NJ Public Library, Madison, NJ, 2008
 Blair Academy, Blairstown, NJ, 2008
 Mid-Atlantic Chapter of the Urban and Regional Information Systems Association Annual Meeting, Mount Laurel, NJ, 2008 (Keynote)
 School of Meteorology, University of Oklahoma, Norman, OK, 2008
 Millburn High School, Millburn, NJ 2008
 NJ Cranberry Growers Association Annual Meeting, Bordentown, NJ, 2008
 National Weather Service Forecast Office, Mt. Holly, NJ, 2008
 Liberty Science Center, Jersey City, NJ, 2007
 NJ Department of Environmental Protection, Trenton, NJ, 2007
 United States Geological Survey, West Trenton, 2007
 NJ Section of the American Water Resources Association, Flemington, NJ, 2007
 NJ Chapter of the National Association of Water Companies, Jamesburg, NJ, 2007
 Schiff Nature Preserve, Mendham, NJ, 2007
 Chelsea at Warren Assisted Living Center, 2007
 Flat Rock Brook Nature Center, Englewood, NJ 2007
 NJ American Water Works Association, Atlantic City, NJ, 2007
 Dickinson College, Carlisle, PA, 2007
 Wild Birds Unlimited, Cherry Hill, NJ, 2007
 Passaic Flood Warning Users Group, Wayne, NJ, 2007
 Rutgers Environmental Steward Program, Roseland, NJ, 2007
 Rutgers Environmental Steward Program, Hillsborough, NJ, 2006, 2007, 2008, 2009
 Rutgers Environmental Steward Program, Bordentown, NJ, 2006, 2007, 2008, 2010
 Issues in Environmental Pollution, Cook College, New Brunswick, NJ, 2006, 2007, 2008, 2009, 2010
 Shippensburg University, Shippensburg, PA, 2006
 National Environmental Satellite, Data and Information Service, National Oceanic and Atmospheric Administration, Camp Springs, MD 2006
 National Weather Service Forecast Office, Mt. Holly, NJ 2006
 Stonebridge at Montgomery Senior Living Community, 2006
 Annual Emma Lausten Horticulture Symposium, Bordentown, NJ, 2006
 NJ Cranberry Growers Association Annual Meeting, Bordentown, NJ, 2006
 Flood No More Storm Water Management Symposium, Bordentown, NJ, 2005
 NJ Catholic Coalition for Environmental Justice Annual Convention, Lakewood, NJ, 2005
 China Meteorological Administration climate modeling group, Beijing, 2005
 87th Annual New Jersey Farm Bureau Convention, East Brunswick, NJ, 2005
 Department of Geography, Northern Illinois University, 2004
 Department of Geology, Rutgers University, 2004
 Environmental Measurements Laboratory, US Department of Homeland Security, New York, NY, 2003
 New Jersey Public Policy Seminar Series, NJ State House, Trenton, NJ, 2003
 New Jersey Emergency Preparedness Conference, Atlantic City, NJ, 2003
 New Jersey Nursery and Landscape Association, Somerset, NJ, 2003
 Center for Environmental Indicators, Rutgers University, New Brunswick, NJ, 2003
 New Jersey Forestry Association, North Branch, NJ, 2002
 New Jersey Society of Professional Journalists, New Brunswick, NJ, 2002
 Raritan Basin Watershed Management Project, Piscataway, NJ, 2002
 New Jersey Department of Environmental Protection, Trenton, NJ, 2002
 International Arctic Research Center, University of Alaska, Fairbanks, 2001
 Geophysical Institute, University of Alaska, Fairbanks, 2001
 Water and Environmental Research Center, Institute of Northern Engineering, University of Alaska, Fairbanks, 2001
 New Jersey Institute of Technology, 2001
 Winter Operations Conference, New Jersey Department of Transportation, 2000

Environmental and Occupational Health Sciences Institute, Rutgers, 2000
 Geology Museum Open House, Rutgers, 2000
 National Snow and Ice Data Center, University of Colorado, 2000
 NASA Goddard Institute for Space Studies, 1998, 2000
 Canadian Atmospheric Environment Service, Downsview, Ontario, 1999
 Satellite Applications Branch, National Weather Service, World Weather Building, National Oceanic and Atmospheric Administration, 1999
 NJ Earth Science Teachers Association conferences, Kean College, 1995, 1997, 1999
 Department of Earth and Environmental Studies, Montclair State University, 1999
 22nd Annual New Jersey Science Convention, Somerset, NJ, 1998
 Marine Sciences Research Center, State University of New York-Stony Brook, 1998
 Center for Ocean, Land and Atmosphere, 1997
 World Weather Building, National Oceanic and Atmospheric Administration, 1996
 International Space University (several lectures), Stockholm, Sweden, 1996
 Middle Atlantic Hazardous Weather Conference for Educators, Randolph, NJ, 1996
 National Weather Service Operational Satellite Hydrology Office, Chanhassen, MN, 1995
 Department of Geography, University of Nebraska, Lincoln, 1995
 Remote Sensing Training and Teaching Convocation, Ramapo College, 1995
 National Research Council Weather Modernization Panel, Woods Hole, MA, 1995
 Lamont-Doherty Earth Observatory of Columbia University, Palisades, NY, 1993
 Canadian Climate Centre, Downsview, Ontario, 1992
 New York Academy of Science, New York, NY, 1992
 NASA Goddard Space Flight Center, Greenbelt, MD, 1991
 University of Delaware, Newark, DE, Department of Geography, 1991
 World Resources Institute, Washington, DC, 1990
 University of Nebraska, Lincoln, NE, Department of Geography, 1989
 New York City/Long Island Chapter of the American Meteorological Society, 1989
 University of North Carolina-Asheville, Department of Meteorology, 1988
 Asheville, NC Chapter of the American Meteorological Society, 1988
 St. Louis Chapter of the American Meteorological Society, 1987

PROFESSIONAL ACTIVITY

Appointed/elected positions:

2014- Member, Committee on Effective Communication of Weather and Climate Information, American Meteorological Society
 2013-2014 Chair, Committee on Linkages between Arctic Warming and Mid-Latitude Weather Patterns: A Workshop, National Academy of Sciences Board on Atmospheric Sciences and Climate
 2013-2014 Chair, WERA1012 Managing and Utilizing Precipitation Observations from Volunteer Networks, National Information Management and Support System, Western Association of Agricultural Experiment Station Directors
 2013-2014 Member, Organizing committee for Hurricane Sandy Symposium at 2014 American Meteorological Society Annual Conference
 2013-2014 Member, Core Development Team, New Jersey Hazard Mitigation Plan
 2013- Member, NASA International Snow Working Group-Remote Sensing
 2013- Member, Steering committee for the NOAA Climate Predictions Application Science Workshop
 2013- Member, Physical Climate Indicators Working Group, National Climate Assessment
 2013- Participant, Eastern Region Climate Team, National Environmental Science and Data Information Service
 2012-2013 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
 2012- Member, Steering Committee Steering Group for the Consortium for Climate Risk in the Urban Northeast, NOAA Regional Integrated Sciences and Assessment Program
 2012- Member, Chesapeake Bay Steering Committee, National Integrated Drought Information System
 2011- Member Steering Committee: Northeast Climate Assessment. National Climate

Assessment, US Global Climate Research Program

2011- Member: Participatory Planning Scenarios Group, National Climate Assessment, US Global Climate Research Program

2011- Member, National Academy of Sciences Board on Atmospheric Sciences and Climate

2011-2013 Member, Federal Emergency Management Agency/National Oceanic and Atmospheric Administration snow advisory working group

2010- Member, Climate Adaptation Task Force, Sustainable Jersey and the NJ Department of Environmental Protection (also member of Public Health subgroup)

2010- Member, Climate and Atmospheric Sciences Standing Committee, NJ Department of Environmental Protection

2009- Editorial Board, *Physical Geography*

2007- Member, Learning and Teaching Advisory Committee, Liberty Science Center

2006- Member, National Oceanic and Atmospheric Administration Science Advisory Board Climate Working Group (NOAA's lead climate advisory committee)

2006- Member, National Integrated Drought Information System Implementation Team

2005- Member, NJ State Hazard Mitigation Team, NJ Office of Emergency Management

2003- Member, External Advisory Committee: National Oceanic and Atmospheric Administration – Cooperative Remote Sensing Science and Technology (CREST) Center

2014 Organizing Committee: 12th Annual Climate Prediction Applications Science Workshop

2002-2013 Executive committee: American Association of State Climatologists

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 (climate monitoring and cryosphere chapters)

2014 Organizing committee: 1st International Satellite Snow Products Intercomparison Workshop, College Park, MD

2013 Co-chair, Planning Meeting on Bridging the Gaps In Modeling Crop Productivity within Earth System Models. National Academy of Sciences Board on Atmospheric Sciences and Climate and Board on Agriculture and Natural Resources

2011 Member, Visiting (Advisory) Committee, Data Conservancy Project (NSF supported)

2009-2011 Member, National Academy of Sciences Climate Research Committee

2007-2008 Core Planning Group: New Jersey State Hazard Mitigation Plan

2006-2008 Chair, National Research Council Committee: Archiving and Accessing Environmental and Geospatial Data at the National Ocean and Atmospheric Administration

2007 Ad-hoc Member, National Drought Product Team, National Weather Service

2006-2007 Nominating Committee: American Association of State Climatologists

2004-2008 Member, Applied Climatology Committee, American Meteorological Society

2004-2008 Director, Cryosphere Specialty Group, Association of American Geographers

2003-2008 Advisory Committee: NOAA Climate Reference Network (2004: renamed NOAA Integrated Surface Observing System)

2003-2006 Advisory Council, Consortium for Atlantic Regional Assessment (CARA)

2003-2005 Chair, National Research Council Committee: Climate Data Records from Operational Satellites

2003-2004 President, American Association of State Climatologists

2003-2004 Executive Committee, National Association of State Universities and Land-Grant Colleges

2002-2005 Associate Editor, *Professional Geographer*

2001-2002 Member, Millstone River Watershed Technical Advisory Committee

2000-2008 Advisory Panel: NOAA Climate and Global Change Program – Climate Change Data and Detection Element

1997-2000 Member: New Jersey Council for Global Change Education

2000 Member, Development Committee: Defining the Role of the Nationally Recognized State Climate Office in the National Climate Services Partnership.

1997-2000 Chair, American Meteorological Society Committee on Polar Meteorology and Oceanography

1996-2000 Chair, Ad hoc MODIS (Moderate Resolution Imaging Spectroradiometer) Cryosphere Advisory Committee

- 1999 National Drought Policy Commission: Monitoring and Prediction Working Group
- 1998 Advisory Committee: Climate Change in the Metro East Coast Region: A Regional Impacts Workshop. Columbia University, New York.
- 1997-1998 Member, National Research Council Panel on the Modernization of the U.S. Cooperative Climate Observing Program
- 1996-1998 Chair, Climate Specialty Group, Association of American Geographers
- 1997 Member: National Weather Service Montague, NY, January 1997 Snowfall Evaluation Committee
- 1993-1997 Member, National Research Council Global Energy and Water Cycle Experiment (GEWEX) Panel
- 1994-1997 Associate Editor, *Professional Geographer*
- 1994-1997 Member, American Meteorological Society Committee on Polar Meteorology and Oceanography
- 1996 Member: World Meteorological Society Climate Observing System/Global Terrestrial Observing System Working Group on the Cryosphere
- 1993-1995 Director, Climate Specialty Group, Association of American Geographers
- 1990-1995 Member, NASA Earth and Space Science Master Directory Advisory Group
- 1989-1993 Member, National Aeronautics and Space Administration Special Sensor Microwave Imager (SSM/I) Products Working Team
- 1991-1992 President, New Jersey Chapter of the American Meteorological Society
- 1991 Member, NOAA Advisory Committee on the Modernization of the United States Cooperative Observers Program
- 1991 Member, NOAA Cryosphere-High Latitude-Climate Science Planning Working Group
- 1989-1991 Vice President, New Jersey Chapter of the American Meteorological Society
- 1986-1989 Member, First International Satellite Cloud Climatology Project Regional Experiment (FIRE) Research Team
- 1984 Member, NASA International Satellite Land Surface Climatology Project Data Preservation Committee

Reviewing:

- 1995- Promotion reviews for faculty members at universities throughout the United States (numerous)
- 1985- Manuscript reviewer for: *Earth Interactions*, *American Geophysical Union Maurice Ewing Series*, *Annals of Glaciology*, *Bulletin of the American Meteorological Society*, C.E. Merrill Publishing Co., Eastern Snow Conference, Western Snow Conference, European Space Agency, *Geophysical Research Letters*, Harper and Row, International Association of Hydrological Sciences, *International Journal of Climatology*, *Journal of Applied Meteorology and Climatology* (formerly *Journal of Applied Meteorology*), *Journal of Climate* (formerly *Journal of Climate and Applied Meteorology*), *Journal of Geophysical Research*, Mosby-Year Book, *Physical Geography*, Prentice Hall, *Consequences*, *Professional Geographer*, *Atmosphere/Environment*, *Tellus*, *Atmosfera*, *Nature*, *Science*, *Water Resources Research*, *Climate Dynamics*, *Hydrologic Processes*, *Meteorological Applications*, *Remote Sensing of the Environment*, New Jersey Department of Environmental Protection, *Climatic Change*, *Pure and Applied Geophysics*, *Meteorological Applications*, *Climate Research*, NJ PIRG Environment New Jersey program, *Journal of the American Water Resources Association*, *Environment, Engineering and Geoscience*, *Bulletin of the NJ Academy of Sciences*, *United Nations Environment Programme*, *Journal of Atmospheric and Oceanic Technology*, *Meteorology and Atmospheric Physics*, *UNEP/GRID-Arendal (website)*, *Natural Hazards*, *Recent Findings in Arctic Science*, *Prometheus Books*, *New York City Panel on Climate Change*, *Louisiana State University Press*, *Advances in Water Resources*, *Environmental Research Letters*, *Journal of Hydrometeorology*, *African Journal of Agricultural Research*, *Journal of Service Climatology*, *NOAA Earth System Research Lab online information pages*, *PLoS One (Public Library of Science)*, *Cryospheric Sciences Discussions*, *Hydrology and Earth System Science Discussions*, *The Cryosphere*

- 1985- Proposal reviewer for: National Science Foundation (various programs), National Aeronautics and Space Administration, National Oceanic and Atmospheric Administration (2), Department of Energy, California Space Institute, Idaho Board of Education, National Geographic Society, National Institute for Global Environmental Change (several regional centers), California Energy Commission,, Canadian Foundation for Innovation, American Association for the Advancement of Science, National Science and Engineering Research Council of Canada
- 2013 Red Team Review Committee for NASA snow proposal
- 2013 Review Snow Load white paper for the US Army Corps of Engineers Cold Regions Research and Engineering Lab
- 2013 Review Northeast and Alaskan chapters for the National Climate Assessment program.
- 2012 Review "Climate of Alaska" (Stewart et al) and Climate of the Northeast US (Kukel et al) reports for the US National Climate Assessment
- 2012 Partnership for the Delaware Estuary, Five-year Indicator Report
- 2011 Review committee: University of Delaware EPSCoR program
- 2011 External review committee: Department of Geography, University of Maryland, Baltimore County
- 2010 External review committee: Department of Geography, University of New Hampshire
- 2009 Review committee: U.S. Federal Highway Administration proposal "Characterization of Climate Change Effects and Impacts on the U.S. Highway System"
- 2009 Review panel: U.S. Department of Energy, Office of Science, Biological and Environmental Research, Climate and Environmental Sciences Division (CESD) national laboratory science plans for climate change research
- 2009 Review snow indicators section in US Environmental Protection Administration climate change indicators report
- 2009 Proposal review panel member: National Oceanic and Atmospheric Administration, Climate Change Data and Detection Program
- 2009 Review National Research Council report "Ensuring the Integrity, Accessibility, and Stewardship of Research Data in the Digital Age"
- 2008 External review committee: Department of Geography, Oklahoma State University
- 2007 Proposal review panel member: National Oceanic and Atmospheric Administration, Climate Test Bed Program
- 2007 Promotion review panel: International Research Institute for Climate and Society, Columbia University
- 2006 Evaluation panel member: Science Products at the National Snow and Ice Data Center's NASA Distributed Active Archive Center
- 2005 Proposal review panel member: National Oceanic and Atmospheric Administration, Regional Integrated Sciences and Assessments Program
- 2005 Proposal review panel member: National Oceanic and Atmospheric Administration, National Climate Transition Program
- 2002 Reviewer of "The Philadelphia Area Weather Book", by J. Nese and G. Schwartz, Temple University Press.
- 1999,2001 Evaluation panel member: NASA Land Surface Hydrology Program
- 1997 Evaluation panel member: NASA/NOAA Enhanced Data Sets for Analysis and Applications Program
- 1996 Reviewer of "The Snow Booklet", by N.J. Doesken and A. Judson, Colorado State University Department of Atmospheric Science, 86pp, 1996.
- 1993 Proposal review panel member: National Science Foundation Polar Programs Division
- 1988 Evaluation panel member: NASA Earth Observing System Interdisciplinary Proposals

Miscellaneous:

- 2010- Data Provider and Indicator Reviewer: Climate Change Indicators in the United States. US Environmental Protection Agency report (1st and 2nd editions).
- 2009- Exhibit leader: Rutgers Day (Dept. Geography and Office of the NJ State Climatologist exhibits), New Brunswick, NJ
- 2008- Co-coordinator: NJ Community Collaborative Rain, Hail and Snow Network, Office of the

- NJ State Climatologist, Rutgers University.
- 2008- Video classroom seminars for “Science in Cinema” program with high schools across NJ in other states and in India
- 1999- Presentations concerning the NJ Weather and Climate Network to:
Atlantic County Emergency Managers; Rutgers Agricultural Research Experiment Center, Bridgeton; NJ Mosquito Commission, NJ Department of Transportation, NJ Department of Environmental Protection, South Jersey Resource and Conservation Development Council, NJ Hurricane Preparedness Conference, Public Service Electric and Gas, Conectiv Energy, GPU Energy (First Energy), NJ Turnpike Authority, Passaic Flood Warning Users Group
- 1998-2011 Occasional articles on New Jersey weather and climate for New Jersey Flows, a publication of the New Jersey Water Resources Research Institute, Rutgers.
- 2007- Annual presentations to Rutgers NJAES Environmental Stewards classes
- 2013 Interviewed for several National Geographic Society television specials
- 2013 Interviewed for Public Broadcasting System television special on Typhoon Haiyan
- 2014 Panel Member: American Meteorological Society Washington Forum. International Session on Typhoon Haiyan
- 2013 Climatological Analysis of Conditions in Northeast New Jersey from January 25 – February 3. Report prepared for the NJ State Police Office of Emergency Management in preparation for Superbowl XLVIII
- 2013 Panelist at “Chasing Ice” film presentation, Rutgers University, Piscataway, NJ
- 2013 Panelist at Bridging the Climate Divide: Informing the Response to Hurricane Sandy and Implications for Future Vulnerability Conference, Rutgers Climate Institute, New Brunswick, NJ
- 2013 Participant in Rutgers Undergraduate Climate Change Education Workshop
- 2013 Participant in “White Arctic, Blue Arctic: Exploring Sea Ice Restoration Workshop”, Columbia University, New York, NY
- 2013 Interviewed for video on the 200th anniversary of the Lambertville-New Hope Bridge. Lambertville Historical Society
- 2012 Host and presentation: East Newark Middle School classes. What Makes NJ’s Weather So Interesting
- 2012 Panelist and presenter: Flooding in the Raritan River Region: FEMA Project Dinner and Discussion, New Brunswick, NJ
- 2012 Panel member: Extreme Weather and Climate Change: How Can We Address Uncertainty, Rutgers University, New Brunswick, NJ
- 2012 Contributor: US Environmental Protection Agency report, Climate Change Indicators in the United States, 2012
- 2012 Participant: Union of Concerned Scientists webinar on winter climate change 2011
- 2012 Contributor: State of the Climate in 2011. *Bulletin of the American Meteorological Society*, 93.
- 2012 Consultant: North Jersey Transportation Planning Authority Climate Change Vulnerability and Risk Assessment of NJ’s Transportation Infrastructure project
- 2011-2012 Member, Risk Assessment Group: Federal Emergency Management Agency Raritan River Basin Project, Rutgers University
- 2011 Invited participant: Northeast US: Impacts, Vulnerabilities, and Adaptation Workshop, US Climate Assessment, New York, NY
- 2011 Contributor: State of the Climate in 2010. *Bulletin of the American Meteorological Society*, 92, S1-S266.
- 2011 Planning Committee: National Oceanic and Atmospheric Administration/Federal Emergency Management Agency Snow Workshop, Estes Park, CO.
- 2011 Invited participant: Tracking climate change impacts and vulnerabilities: physical climate indicators for the National Climate Assessment. National Climate Assessment of the U.S. Global Change Research Program. Washington, DC
- 2011 Participant: Terrestrial Regional North American Hydroclimate Experiment Initial Community Discussion Workshop, Silver Spring, MD
- 2011 Session leader. NJAES-4H Climate and Environmental Change Summit, New Brunswick, NJ

- 2010 Invited testimony: Developing drought: Public hearing, NJ Department of Environmental Protection, Millburn (August) and Trenton (September), NJ.
- 2010 Contributor: State of the Climate in 2009. *Bulletin of the American Meteorological Society*, 91, S1-S218.
- 2010 Economic Assessment of Climate Change Impacts in New Jersey: Progress Report Discussion, NJ Department of Environmental Protection, Trenton, NJ
- 2010 Data Provider and Indicator Reviewer: Climate Change Indicators in the United States. US Environmental Protection Agency report.
- 2010 Workshop leader: Using the New Jersey Weather & Climate Network for Monitoring Potentially Hazardous Situations, NJ Office of Emergency Management, NJ State Police Headquarters, West Trenton, NJ (held twice)
- 2010 Host: Chinese Meteorological Administration Delegation (visit to Office of NJ State Climatologist by 23 officials)
- 2010 Session leader. NJAES-4H Climate and Environmental Change Summit, New Brunswick, NJ
- 2009 Organizer: Second-annual Town Hall Meeting on Cryospheric Climate Data Records. 2009 American Geophysical Union Fall Meeting. San Francisco
- 2009 Invited testimony: NJ Clean Water Council Public Hearing: Water Policy and Climate Change, Trenton, NJ
- 2009 Collaborate with the president of the American Association of State Climatologists on the preparation of Congressional testimony concerning the role of state climatologist offices in a proposed national climate services program
- 2009 Scientific contributor: Koc, N., B. Njastad, R. Armstrong, R.W. Corell, D.D. Jensen, K.R. Leslie, A. Rivera, Y. Tandong & J-G Winther (eds.) (2009). Melting snow and ice: a call for action. Centre for Ice, Climate and Ecosystems, Norwegian Polar Institute. 92pp.
- 2009 Contributor: State of the Climate in 2008. *Bulletin of the American Meteorological Society*, 90, S1-S196.
- 2009 Manage American Association of State Climatologist program that distributed \$30,000 of grants (supported by NOAA) to 15 states for the preparation and distribution of monthly climate reports
- 2009 Session leader. NJAES-4H Climate and Environmental Change Summit, New Brunswick, NJ
- 2009 Participant in Western Education Extension Research Activity (WERA) workshop on volunteer precipitation measurement programs, Estes Park, CO
- 2009 Co-organizer and panel moderator. The Climate Ahead: Climate Change and Extreme Weather Events. Rutgers Climate and Environmental Change Initiative, New Brunswick, NJ
- 2009 Panel member. International Water Issues Forum. Rutgers U., New Brunswick, NJ
- 2008-10 Project consultant: Impact of Future Loss of Summer Arctic Sea Ice on Northern Hemisphere Snow Cover. NASA PIs: J. Stroeve, A. Frei, G. Gong
- 2008 Organizer: Town Hall Meeting on cryospheric climate data records. 2008 American Geophysical Union Fall Meeting. San Francisco
- 2008 Advise 11 "For Inspiration and Recognition of Science and Technology (FIRST) Lego League" teams from NJ middle schools. 2008 challenge: "Climate Connections" (phone interviews, visits to teams, teams visited Rutgers)
- 2008 Participant: Climate services round table: National Oceanic and Atmospheric Administration headquarters, Silver Spring, MD
- 2008 Roundtable member: The Role of Applied Climatology in a Changing Climate. 17th Conference on Applied Climatology, American Meteorological Society, Whistler, BC
- 2008 Contributor: State of the Climate in 2007. *Bulletin of the American Meteorological Society*, 89, S1-S179.
- 2008 Participant: Sparta Mountain Day, Sparta, NJ
- 2008 Presentation: Scotch Plains – Fanwood 6th grade classes, Livingston Campus
- 2008 Invited presentation: White House Office of Science and Technology Council's Subcommittee on Water Availability and Quality (under the Committee on Environment and Natural Resources): Topic: US cooperative weather/climate observing networks.

- 2008 Invited presentation: National Oceanic and Atmospheric Administration Data Archive and Access Requirements Working Group, Boulder, CO.
- 2008 Workshop co-leader: Environmental Education Program, The Peopling of Philadelphia Collaborative, Inc, New Brunswick, NJ.
- 2007 Invited testimony to the NJ State Assembly Coastal New Jersey Evacuation Task Force, Beach Haven, NJ.
- 2007 Contributor: State of the Climate in 2006. *Bulletin of the American Meteorological Society*, 88, S1-S135.
- 2007 Invited presentation: National Oceanic and Atmospheric Administration Data Archive and Access Requirements Working Group, Chicago, IL.
- 2007 Invited participant: NOAA Climate Board Long-Range Planning Workshop, Chicago, IL.
- 2007 Feature segment interview regarding NJ coastal hazards. "Safety Links" community television show. SCAN Learning Center, Eatontown, NJ.
- 2007 Invited participant: Hurricane Evacuation Workshop, NJ State Police Office of Emergency Management, West Trenton, NJ.
- 2007 Invited participant: New York City Meteorology Network Workshop, City College of New York, New York City, NY.
- 2006 Invited presentation: National Oceanic and Atmospheric Administration Data Archive and Access Requirements Working Group, Washington, DC.
- 2006 Invited participant: Conference on Climate Change Impacts on U.S. Transportation, The Transportation Research Board and Division on Earth and Life Studies, National Academies, Washington, DC.
- 2006 Contributor: State of the Climate in 2005. *Bulletin of the American Meteorological Society*, 87, S1-S102.
- 2006 Invited testimony regarding water supply issues: NJ State Senate Environment Committee, Trenton, NJ.
- 2005 Invited panelist: Climate Variability and Change Session, US. Climate Change Science Program Workshop: Climate Science in Support of Decisionmaking, Crystal City, VA
- 2005 Invited testimony: Developing drought: Public hearing, NJ Department of Environmental Protection, Trenton, NJ.
- 2005 Invited panelist: Locating Observing Stations Where It Counts: What do We Have? What are We Missing? 15th Conference on Applied Climatology, American Meteorological Society, Savannah, GA.
- 2005 Session Chair: Climate Observing Networks. 15th Conference on Applied Climatology, American Meteorological Society, Savannah, GA.
- 2005 Workshop leader: Environmental Education Program, The Peopling of Philadelphia Collaborative, Inc, Cream Ridge, NJ.
- 2005 Invited workshop guest and lunch time speaker: The Essex-Stevens Model: Extending the Model into High School, Stevens Institute of Technology, Hoboken, NJ
- 2005 Invited participant: Second Annual All-Hazards Preparedness Expo. NJ Department of Transportation. Trenton, NJ.
- 2005 Contributor: State of the Climate in 2004. *Bulletin of the American Meteorological Society*, 86, S1-S86.
- 2005 Session Chair: 3rd Climate Prediction Applications Science Workshop, National Oceanic and Atmospheric Administration, Palisades, NY.
- 2004 Panel on Evaluation of Climate Change Indicators for Environmental Protection Agency. Board of Atmospheric Sciences and Climate, National Academies, Washington, DC
- 2004 Session Chair: NASA EOS Snow and Ice Products User Workshop, Landover, MD
- 2004 Invited participant: NOAA Climate Board Long-Range Planning Workshop, Warrenton, VA.
- 2004 Invited participant: First Annual All-Hazards Preparedness Expo. NJ Department of Transportation. Trenton, NJ.
- 2004 Contributor: State of the Climate in 2003. *Bulletin of the American Meteorological Society*, 85, S1-S72.
- 2002-04 Invited participant: New Jersey Emergency Preparedness Conference(s), Atlantic City, NJ.
- 2003 Invited participant: Rutgers University Homeland Conference. Presentation: The

- NJ Weather and Climate Network: harnessing real-time information for homeland security
- 2003 Organizer: AASC/NWS/NCDC/RCC Climate Services Partnership Workshop, Silver Spring, MD
- 2003 Invited participant: Workshop on New Jersey Fire Weather and Climate Networks in the Pine Barrens. NJ Forest Fire Service and USDA Forest Service, Trenton, NJ
- 2003 Contributor: State of the Climate in 2002. *Bulletin of the American Meteorological Society*, 84, S1-S68.
- 2002 Invited panelist: U.S. Climate Change Science Program Planning Workshop, Washington, DC
- 2002 Co-Organizer: Symposium on Deciphering the Complex Changes in Global Snow and Ice. American Association for the Advancement of Science Annual Meeting, Boston, MA
- 2002 Invited testimony regarding ongoing drought: NJ State Assembly Environment and Solid Waste Committee
- 2002 Invited participant: 2002 Transportation Summit, New Jersey Quality Initiative, New Jersey Department of Transportation
- 2002 Invited participant: 2002 Status of New Jersey's Water and Ecological Resources, With Drought Update. NJ State House.
- 2002 Co-organizer: Snow Watch 2002, Silver Spring, MD
- 2002 Contributor: Climate Assessment for 2001. *Bulletin of the American Meteorological Society*, 83, 1-61.
- 2002 Invited participant: Forestry Symposium, Cook College, New Jersey Agricultural Experiment Station
- 2001 Invited Participant: Northeast Integrated Climate Assessment Meeting, University of New Hampshire, Durham, NH
- 2001 External reviewer for Kean University Department of Meteorology and Geology
- 2001 Invited Participant: Climate and Vector Control Workshop, NOAA Office of Global Programs
- 2000 Contributing Author: Intergovernmental Panel on Climate Change Third Assessment Report, Chapter 2: Observed Climate Variability and Change
- 2000 Session chair: Eastern Region Meeting of the Geological Society of America, New Brunswick, NJ
- 1999 Invited Participant: Northeast State Climatologists Conference, Northeast Regional Climate Center, Ithaca, NY.
- 1998 Invited Participant: Climate and Global Change Panel Meeting, Key Largo, FL, National Oceanic and Atmospheric Administration
- 1998 Atmospheric Model Intercomparison Project II (AMIP II) Diagnostic Subproject : Snow Cover
- 1999 Chair, Program Committee, Fifth Conference on Polar Meteorology and Oceanography, American Meteorological Society, Dallas, TX
- 1998 Invited Participant: NASA Goddard Institute for Space Studies Workshop on Land Surface Representation in Global Climate Models, New York, NY
- 1997 Participant: Atmospheric Model Intercomparison Project II (AMIP II) Diagnostic Subproject : Snow Cover
- 1994-97 Participant: Atmospheric Model Intercomparison Project (AMIP) Diagnostic Subproject No. 8: Polar Phenomena and Sea Ice
- 1996 Invited participant: National Weather Service Snow Measurement Workshop, Boulder, CO
- 1996 Invited participant: National Polar-orbiting Operational Environmental Satellite System (NPOESS) climate workshop, College Park, MD
- 1995 Invited participant & panel member: Global Climate Observing System meeting, Asheville, NC
- 1995 Invited participant: Earth Observation Satellite Data and Information System (EOSDIS) Users Conference, Lansdown, VA
- 1994 Invited contributor: Environmental Data Report 1993-94, United Nations Environment Programme

- 1994 Invited contributor: Fifth Annual Climate Assessment 1993, Climate Analysis Center, National Weather Service, U.S. Department of Commerce
- 1993 Invited participant: Workshop on Human Dimensions of Global Environmental Changes: Links between EOS and Social Science Variables, NASA Goddard Space Flight Center, Greenbelt, MD
- 1993 Group chair, NOAA Earth System and Data Information Management Program Workshop on Cryospheric Data Rescue and Access, Pennsylvania State University, State College, PA
- 1992 Invited participant: Workshop on Decade-to-Century Time Scales of Climate Variability, National Research Council, Board on Atmospheric Sciences and Climate, National Academy of Sciences, Irvine, CA
- 1992 Invited participant: Comprehensive Satellite/*In Situ* Global Climate Data Product Workshop, NOAA/National Environmental Satellite, Data, and Information Service, Camp Springs, MD
- 1990 Host scientists from the Lanzhou Institute of Glaciology and Geocryology, Lanzhou, China at Rutgers
- 1988 Invited participant: Arctic Environmental Data System Workshop, Boulder, CO

CURRENT MEMBERSHIP IN PROFESSIONAL ASSOCIATIONS

Association of American Geographers
 American Association of State Climatologists
 American Meteorological Society
 American Geophysical Union
 Eastern Snow Conference

POST DOCTORAL/DISSERTATION/THESIS SUPERVISION

Post Doctoral Supervision

Gina Henderson, 2010-11
 Suzanne Hartley, 1996-97
 Marilyn G. Hughes, 1995-97
 Imtiaz Rangwala (co-supervisor), 2011-
 Debjani Ghatak (co-supervisor), 2011-

Ph.D. Committees

Samiah Moustafa, 2015* (* anticipated date)
 Asher Siebert, Chair, 2014*
 John Mioduszewski, Chair, 2014*
 Ross Alter, Reader and Examiner, 2014 "Evidence for the influence of irrigation on precipitation intensity and totals in the Midwestern United States: observational and modeling perspectives"
 Mira Losic, Reader and Examiner, 2014. "Impacts of Volcanic Eruptions and Geoengineering on Arctic Climate"
 Sari Metsamaki, Reader and Examiner, 2013, "Fractional Snow Cover Mapping Method for Optical Remote Sensing Data Applicable to Continental Scale". School of Engineering, Aalto University, Espoo, Finland
 Tabby Fenn, Examiner (qualifying exam), 2013
 Tom Collow, Examiner (qualifying exam), 2011
 Irene Zager, Examiner (qualifying exam), 2010
 Patricia Ann Sayers, Reader and Examiner, 2012 "A Paradigm Shift in the Conceptualization of the Relationship Between Climate/Weather and Chronic Diseases such as Congestive Heart Failure, Chronic Obstructive Pulmonary Disease and Asthma (at University of Medicine and Dentistry of New Jersey)"
 Debjani Ghatak, Reader and Examiner, 2010 (at The City University of New York) "Cryospheric Teleconnections: The Response of Northern Hemisphere Snow to Atmospheric and Arctic Sea Variations"
 Gina Henderson, Reader and Examiner, 2010 "A General Circulation Model (GCM) Investigation of Snow cover-Atmosphere Interactions in the Northern Hemisphere using an Interactive Slab Ocean Model " (at the University of Delaware)

M. Deniz Kustu, Reader and Examiner, 2010 “ Large-Scale Water Cycle Perturbation due to Irrigation Pumping in the US High Plains.”

D. Nelun Fernando, Chair, 2010 “Predicting and Monitoring Droughts in the Humid Subtropics: a Case Study on Sri Lanka”

Rosana Grafals-Soto, Reader and Examiner, 2010 “The Effect of Location of Remnant Fences on Vegetation and Morphology of Developed Foredunes”

Adelle Thomas, Examiner (qualifying exam), 2010

Nicole Davi, Chair, 2009 “Reconstructed Drought Variability Across Mongolia Based on Tree Ring Records”

Mariana Mossler, Reader and Examiner, 2009 “Coastal Planning “Down the Shore”: Geographical Applications in New Jersey:

Natasa Skific, Reader and Examiner, 2009 “Changes in Arctic Moist Static Transport and Moisture Convergence in the 21st Century”

Toby Applegate, Examiner (qualifying exam), 2008

Yufei Wang, Examiner (qualifying exam), 2008 “Climate Change and its Ecological and Social-Economic Impact: Evidence from China’s Historical Documents”

John Krasting, Reader and Examiner, 2008 “Variations in Northern Hemisphere Snowfall: An Analysis of Historical Trends and the Projected Response to Anthropogenic Forcing in the Twenty-First Century”

Michael Ferrari, Reader and Examiner, 2008 “Mid and High Latitude Hydroclimatology: A Modeling Study of the Observations and Future Temperature Trends in the Fraser and Lena River Basins”

Imtiaz Rangwala, Reader and Examiner, 2008 “Influence of Increasing Surface Humidity on Winter Warming at High Altitudes Through the 21st Century”

Gwangyong Choi, Chair, 2007 “Recent Early Spring Onset in the Northern Hemisphere”

David W. Gwynn, Examiner (qualifying exam), 2007 “An Object-Oriented Approach to Change Detection: A Case Study of Urbanizing Landscapes”

Alex Standish, Reader and Examiner, 2006 “Geographic Education, Globalization, and Changing Conceptions of Citizenship in American Schools: 1950-2005”

Wendy Mitteager, Reader and Examiner, 2004 “Understanding the Relationship Between Landscape Features on Municipally-Managed Dunes and Residential Private Lots on an Urban Shoreline: New Jersey”

Gavin Gong, Reader and Examiner, 2003 (at the Massachusetts Institute of Technology) “Winter Climate Response to Continental Snow Anomalies”

John Dobosiewicz, Reader and Examiner, 2003 “An Assessment of Spatial Variability in Water Level Observations and Susceptibility to Inundation from Coastal Storms in a Developed Estuary, Raritan Bay, New Jersey”

Daniel Graybeal, Reader and Examiner, 2001 (at University of Delaware) “A Snow Hydroclimatology of the Central and Southern Appalachian Mountains, USA”

Michael Craghan, Reader and Examiner, 1999 “An Investigation of Sediment Delivery and Accumulation on a Developed Estuarine Shore: Manasquan, New Jersey”

Andrew Grundstein, Reader and Examiner, 1999 (at University of Delaware) “A Climatology of Snow Water Equivalent in the Northern Great plains of the United States”

Anthony Broccoli, Reader and Examiner, 1998 “Tropical Temperatures at the Last Glacial Maximum: An Atmosphere-Mixed Layer Ocean Model Simulation and Comparison with Paleotemperature Reconstructions”

Allan Frei, Chair 1997 “Towards a Snow Cover Fingerprint for Climate Change Detection”

Andrew Ellis, Reader and Examiner, 1997 (at University of Delaware) “Simulating the Influence of Snow Cover on Cold Airmasses Over the Great Plains of the United States”

Sandra Luque, Reader and Examiner, 1996 “Structure and Dynamics of the New Jersey Pine Barrens Landscape”

Roger Balm, Reader and Examiner, 1995 “Resilience, Resourcefulness and the Necessity of Scarcity: the Case of Malta (Mediterranean Sea)”

Susan Millar, Reader and Examiner, 1995 “Clast Fabric in Periglacial Mass-movement Deposits”

David Walland, Reader, 1995 (at University of Melbourne)

Marilyn G. Hughes, Chair, 1994 “Historic Snow Cover and Climate Change in the Central United States”

Sandra Luque, Reader and Examiner, 1994 "The Structure and Dynamics of the Pine Barrens Landscapes"

Susan Millar, Reader and Examiner, 1994 "A Comparative Analytic Approach to Relict Solifluction Identification"

Keith Harrington, Reader and Examiner, 1994 "Global Climate Change and Drought in New Jersey"

Jianping Xu, Reader, 1994 "An Investigation of Yellowstone Fires' 1988 Behavior Using AVHRR Data and GIS"

Judah Cohen, Reader and Examiner, 1993 (at Columbia University) "The Effect of Climate Perturbations on Extratropical Cyclogenesis Along the East Coast of North America"

John Tiefenbacher, Reader and Examiner, 1992 "Residential Exposure to Pesticide Drift Due to Suburban Growth in Agricultural Areas"

Masters Committees

Erik Maietta, Reader, 2013 (Dept. Landscape Architecture, Rutgers) "Exploring the Influence of Climate Change on Native Woody Plants of the Northeast"cx

Alison Hayes, Reader, 2012 (at University of Delaware) "A Synoptic Climatology of Severe Convective Winds in the Northeastern United States"

Christopher Thuman, Reader and Examiner, 2009 (at Rutgers Newark) "Summertime Urban Heat Island in Newark, New Jersey and its Relationship with Urban Particulate Matter"

Morgan F. Schaller, Reader and Examiner, 2007 "A Groundwater-Surface Water Partition for the Contiguous United States and Select Case Studies"

Gregory Mitterman, Examiner, 2007

Wai M. Angel Ling, Examiner, 2005

Margaret Holzer, Chair, 2004 "Synoptic and Diurnal Characteristics of the Northern New Jersey Heat Island"

Kelly Sponberg, Reader and Examiner, 2004 "Hazards Within and Without: The Effect of Globalization and New Technologies on Meteorological Services of Least Developed Countries"

Joshua Halofsky, Reader and Examiner, 2003 "The Importance of Scale in Managing and Modeling Wildfires"

Nicole Davi, Chair, 2002 "Boreal Temperature Variability Inferred From Maximum Latewood Density and Ring Width Data From the Wrangell Mountain Region, Alaska"

Jorgelina Hardoy, Reader and Examiner, 2002 "Natural Hazards: Towards an Integrated Discourse or New Labels for Old Ideas"

Tehmina Khan Zaidi, Reader and Examiner, 2002 "Linking 'Experience' with 'Ideology' and 'Reality': Kashmir Revisited"

Junko Noguchi, Reader and Examiner, 2002 "The Kyoto Protocol: The Struggle to Reconcile 'Equity' and 'Efficiency' through the Involvement of Developing Countries".

John Creilson, Chair 2001 "Association between western Atlantic sea surface temperature anomalies and precipitation variability over the northeastern United States"

Paul Montesano, Reader and Examiner, 2001

Sean Helfrich, Chair, 2000 "Snowfall Variability in Eastern North America"

Frank Musunda, Chair, 2000. "Summer Temperature Variability in New Jersey Over the Last Century"

Marc Chiacchio, Reader and Examiner, 2000 "The Evaluation and Improvement of Downward Longwave Flux Algorithms in the Polar Night for the Cloud and the Earth's Radiant Energy System (CERES) Program".

Paul S. Wichansky, Reader and Examiner, 1999 "A Diagnosis of Upper-Atmospheric Effects Upon Surface Precipitation Intensity for a Sample of East Coast Snow Storms".

Johnnie Woo, Reader and Examiner, 1998 "Statistical relationships between upper-level indicators and central pressure tendency of cyclones for the eastern United States"

Charles R. Colvard Jr., Reader and Examiner, 1998 "Jamming in Yellowstone: Mapping Large Woody Debris in America's First National Park"

Lena Raberg, Examiner, 1998

Melina Patterson, Chair, 1997 "Schools and the Construction of the local: Place, Race and Politics in Bergen County"

Steven K. Neumiller, Reader and Examiner, 1997 "HSPA: Hydrological Simulation Program-ARC"

Claire Gargan, Reader and Examiner, 1997 "Infant Sleep Position and SIDS: The New Jersey Response"

Richard Hartman, Chair, 1996 "An Analysis of Seasonal Precipitation in New Jersey Incorporating Daily Data"

Greg John, Reader and Examiner, 1996 "An Expansion of AQIAS: An Expert System Using dBase for Sate of New Jersey Air Quality Regulations and Applications"

James DeFilippis, Examiner, 1996

Pingnan Xiang, Reader and Examiner, 1995 "Analysis of ERS-1 SAR Data in Combination with Landsat-TM Data for Estimation of Forest Structure and Forest Type Discrimination"

Anne Zeidman, Examiner, 1995

Janine McGregor, Examiner, 1995

John Fagan, Reader and Examiner, 1995 "Sampling Designs for the Measurement of Active-layer Thickness"

Howard Schmidt, Chair, 1994 "Historic New Jersey Temperatures and Their Role in Detecting Future Climate Change"

Basil Newmerzhucky, Reader and Examiner, 1994 "Precipitation Anomalies Due to the Philadelphia-Camden Urban Effect"

Curtis Freitag, Examiner, 1994

Paul Wichansky, Reader and Examiner, 1994

Rachel Gross, Reader and Examiner, 1994

Andrew Ellis, Reader and Examiner, 1994 (at University of Delaware) "Mechanisms Responsible for Increases in Eastern Great Lakes Snowfall"

Shu-Peng Ho, Reader and Examiner, 1993 "An expert system for validation and screening of air quality data"

George Wright, Reader and Examiner, 1993

Roger Balm, Examiner, 1993

Sanjay Kharod, Examiner, 1993

Darren Coffey, Examiner, 1993

Mariana Mossler, Examiner, 1993

Scott C. VanBlarcum, Reader and Examiner, 1992 "Modeling Present and Future River Runoff Using Global Atmospheric Models"

James C. Clarke, Reader and Examiner, 1992 "An Expert System for Guiding the Development of Air Quality Impact Assessments"

Sandra Luque, Reader and Examiner, 1992 "Natural and Human Processes Interacting to Cause Landscape Change. The Pine Barrens Landscape: A Changing Resource"

Stephen Norville, Examiner, 1992

Denis Jones, Examiner, 1992

Roni Pillsbury, Examiner, 1992

Patricia Heaney, Examiner, 1992

Therese Spies, Chair, 1991 "Remote Sensing of Snow Cover in Western China"

Stephan Kuhl, Reader and Examiner, 1990 "Predicting Monthly River Runoff Using Atmospheric Global General Circulation Models"

RUTGERS UNIVERSITY SERVICE

New Brunswick Campus-wide

2014 Campus Strategic Planning Coordinating Committee

2104 Presentation to visiting out-of-state guidance counselors

2013- Member, Internal Advisory Committee, Rutgers Climate Institute

2009- Rutgers Day booth: "Ask the State Climatologist"

2006- Member, Rutgers Climate Initiative Executive Committee

2001-01 New Brunswick Computer Advisory Committee

1998-99 Advisory Committee on Instructional Computing

School or Arts and Sciences (formerly: Faculty of Arts and Sciences)

2007-09 Discovery Day speaker

2004-05 Promotions and Review Committee

2002 Member, Ad Hoc Shared Appointments Committee

1998-99 Computer Advisory Committee

1994-96 Member, Appointments and Promotions Committee

School of Environmental and Biological Sciences (formerly: Cook College)

- 2005- Annual presentations to Meteorology Club
- 1993- Curriculum Coordinator: Geography
- 2003-04 Honors Advisor for Joshua A. McGrath
- 2001-02 Honors Committee Member for John P. Krasting
- 1996 Honors Advisor for Jason Scotti

Rutgers College

- 1990-06 Faculty Fellow
- 1991-00 Rutgers College Curriculum Committee

Graduate School

- 2005- Member, GeoSpatial Information Science Program
- 1998- Member, Global Environmental Change Program
- 1990- Member, Quaternary Studies Program
- 2009 Workshop presentation on "The Job Talk" as part of Jobs in Academe series
- 2001-03 Nominating Committee Subcommittee: Student Appeals
- 2001-03 Member, Nominating Committee

Geography (undergraduate and graduate)

- 2013- Graduate Admissions Committee
- 2011- Graduate Program Executive Committee
- 1989- Full member, Graduate faculty
- 1996-2003; 2005-2011 Chair (on leave 7/99-6/00)
- 2004-05 Undergraduate director
- 1999-2000 Participant in the "Great Raritan Flood Project"
- 1994-98 Graduate director
- 1993-94, fall 2008 Undergraduate director
- 1989-92 Undergraduate advisor, geography majors and minors
- 1990-91 Graduate admissions committee
- 1989-90 Undergraduate recruitment coordinator
- 1989-90 Undergraduate affirmative action coordinator

Atmospheric Science Graduate Program

- 2005- Full member, Graduate Faculty (founding member)
- 2012- Member, Travel fund committee
- 2006-09 Membership and nominations committee (Chair 2008-09)
- 2005-06 Member, Graduate admissions committee

Meteorology

- 1989-99 Full member, Graduate Faculty (program closed)

Center for Environmental Prediction

- 2004- Executive board

Rutgers Homeland Security Research Initiative

- 2005- Executive board

Environmental Sciences

- 1994- Full member, Graduate Faculty

Geology

- 1991- Full member, Graduate Faculty

General

- 1990- Faculty Advisor, Rutgers Undergraduate Geographical Society
- 2008 Participant: "Get Inside Your Professor's Head" panel discussion sponsored by the Livingston Campus Office of Undergraduate Education
- 2005-09 Editorial Board and Environmental chapter lead author: *Mapping New Jersey*, 2009 Rutgers University Press
- 2004 "New Jersey 101": Invited lecture to the Rutgers New Faculty Traveling Seminar
- 2003 "New Jersey Climate": Invited lecture to the Rutgers Alumni Association Annual Alumni College, Mohonk Mountain, NY.
- 1997-04 Editorial Board: *The Encyclopedia of New Jersey*, Rutgers University Press, 2004
- 2001 Exhibitor: NJ Weather and Climate Network, Rutgers reception for State legislators and guests, War Memorial Auditorium, Trenton
- 2000 Luncheon speaker: Douglass College Alumni Day
- 1998 Discussion leader: "Technology in the Classroom". New Brunswick

- Undergraduate Teaching Symposium
- 1997 Presentation: "Innovations in instructional technology: Getting the whole department involved"; Lecture Series: Instructional Technology, Faculty Innovators
- 1997 Participant: Panel discussion associated with the White House Conference on Climate Change
- 1995-96 Livingston Campus Computing Pilot Project
- 1995 Chair, Instructional Computing Committee, Livingston Campus

NEW JERSEY STATE CLIMATOLOGIST RESPONSIBILITIES

- a) Maintain an active research program related to New Jersey weather and climate.
- b) Collect and archive New Jersey climatic data. Including operating the real-time NJ Weather and Climate Network (<http://njwx.org>) and daily NJ Community Collaborative Rain, Hail and Snow Network (<http://cocorahs.org>)
- c) Through various outreach programs, provide climate education and information to the citizens of New Jersey. Includes giving several hundred interviews each year to the media and writing a monthly weather/climate narrative published on the state climate website (<http://njclimate.org>)

PUBLIC SERVICE

- 2013- Trustee: The Nature Conservancy (New Jersey chapter)
- 2011- Advise a number of Lego League teams as they develop projects
- 1985- Invited speaker at a number of "North Jersey Weather Observers" meetings, on topics ranging from summer snow to global and regional climate change to correct climatologic observing procedures
- 1980- Invited speaker in elementary and high school classrooms, at high school career days, at science fairs and to scout groups
- 2013 Invited participant: Great Conversationalists. Morris (County) Arts (fund raiser)
- 2003-11 Assistant Scoutmaster, Boy Scout Troop 489 Millstone/Hillsborough, NJ
- 1999-2003 Scoutmaster, Boy Scout Troop 489 Millstone/Hillsborough, NJ
- 1997-99 Assistant Scoutmaster, Boy Scout Troop 89, Hillsborough, NJ
- 2001 Invited speaker: "Take Our Sons to Work Day", Merrill Lynch, Somerset, NJ
- 2001 Invited presenter: NJ Weather and Climate in the Classroom, Plainfield High School Earth Science Teachers Workshop.
- 2001 Invited presenter: Weather and Climate in the Classroom, Kearny Public Schools Science Teachers Workshop.
- 2000 Invited speaker: Northern New Jersey Sail and Power Squadron
- 1999 Invited speaker: North Brunswick Kiwanis Club
- 1996-99 Assistant Scoutmaster, Boy Scout Troop 89, Hillsborough, NJ
- 1995, 97 Invited speaker: Museum of American Weather conferences, Haverhill, NH
- 1996 Invited speaker: International Weather Watchers Annual Meeting, Washington, DC
- 1995 Invited Speaker: Old Guard, Westfield, NJ
- 1994 Invited Speaker: Flemington Baptist Church, Flemington, NJ
- 1991-93 Moderator: New Jersey State Finals, National Geography Bee
- 1992 Invited speaker and panelist: Society of Professional Journalists: New Jersey Chapter: Global Change in the Press
- 1991 Invited Speaker: 1991 Winter Weather Conference, Rutgers University,
- 1990 Invited Speaker: New Brunswick Adult Education Center
- 1990 Invited Speaker: Temple Shalom Department of Adult Education, Plainfield, NJ
- 1987 Organizer and speaker: Northeast Climate Symposium, Montclair State University
- 1987 Invited Speaker: Annual Meeting of the Association of American Weather Observers, Pinkham Notch, NH
- 1987 Consultant: PROJECT SPACE, Ramapo College
- 1986-87 President: North Jersey Weather Observers
- 1986 Evaluation panel member: proposals to the New Jersey Department of Higher Education concerning "Science, Math, and Computer Science Education for K-12 Teachers"
- 1985-86 Board of Directors: Association of American Weather Observers