

**DAVID A. ROBINSON**

Department of Geography  
Office of the NJ State Climatologist  
Rutgers University  
54 Joyce Kilmer Avenue  
Piscataway, NJ 08854

Phone: 848-445-4741  
Fax: 732-445-0006  
Email: david.robinson@rutgers.edu  
Website (research): snowcover.org  
Website (state climate): njclimate.org

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**Education**

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

**Academic Appointments**

Distinguished Professor, Department of Geography, Rutgers University, 2018–present.

Professor, Department of Geography, Rutgers University, 1995–2018.

New Jersey State Climatologist, 1991–present.

Graduate Faculty (founding member), Atmospheric Science Program, Rutgers University, 2005–present.

Graduate Faculty, Environmental Sciences Program, Rutgers University, 1994–present.

Graduate Faculty, Geology Program, Rutgers University, 1991–present.

Graduate Faculty, Geography Program, Rutgers University, 1989–present.

Graduate Faculty, Meteorology Program, Rutgers University (program closed), 1989–1999.

Adjunct Research Scientist, Lamont–Doherty Earth Observatory, Columbia University, 1988–2003.

Associate Professor, Department of Geography, Rutgers University, 1991–1995.

Assistant Professor, Department of Geography, Rutgers University, 1988–1991.

Visiting Scientist, United States National Climatic Data Center, 1988.

Adjunct Professor, Bergen Community College, Paramus, NJ, 1986–1988.

Adjunct Professor, College of New Rochelle, New Rochelle, NY, 1984–1987.

Associate Research Scientist, Lamont-Doherty Earth Observatory, Columbia University, 1984–1988.

Graduate Research Assistant, Lamont-Doherty Earth Observatory, Columbia University, 1978–1984.

Research Assistant, Lamont-Doherty Earth Observatory, Columbia University, 1977–1978.

### **Administrative Appointments**

Chair, Department of Geography, Rutgers University, 1996–2003; 2005–2011 (on leave 7/99–6/00).

Director, Undergraduate Program, Department of Geography, Rutgers University, 1990–1994; 1998.

Director, Graduate Program, Department of Geography, Rutgers University, 1994–98; 2001.

### **Awards and Honors**

Lifetime Achievement Honors, American Association of Geographers, 2017.

Lifetime Floodplain Management Achievement Award: New Jersey Association for Floodplain Management, 2014.

Presidential Public Service Award, Rutgers College Class of 1962, 2014.

Fellow, American Meteorological Society, 2012.

National Associate. National Research Council of the National Academies, 2008.

Environmental Hero Award, National Oceanic and Atmospheric Administration, 2008.

Lifetime Achievement Award: Climate Specialty Group, American Association of Geographers, 2008.

Trustees' Research Fellowship: Rutgers University, 1991–1992.

Henry Rutgers Research Fellowship: Rutgers University, 1988–1990.

Sigma Xi member, 1986.

### **Grants and Contracts**

Principal investigator, co-principal investigator or sponsor on 124 external and 5 internal Rutgers research grants totaling. \$15,052,224. Funding is listed for grants active from July 2017 onward.

#### *Awarded external*

Disease Outcomes in Older Adults Under Extreme Heat, Air Pollution and Medication Use, National Institutes of Health: National Institute on Aging, 2019–2024 (\$166,050).

The New Jersey Mesonet: Continued Operations and Maintenance. New Jersey Department of Environmental Protection, 2019–2021 (\$180,000).

Update of NJ State All-hazards Mitigation Plan, Michael Baker International, 2019–2020 (\$11,249).

Snow Cover Climate Data Record Sustainment and Maintenance. NOAA, 2019–2020 (\$50,000).

NOAA National Weather Service National Mesonet Expansion. Stinger Ghaffarian Technologies/Synoptic, Inc., 2018–2020 (\$300,117).

NJFireNet: continuation. USDA Forest Service, 2018–2020 (\$35,000).

Snow Cover Climate Data Record Sustainment and Maintenance. NOAA, 2018–2019 (\$50,000).

Ongoing Monitoring and Interpretation of New Jersey's Weather for Emergency Management Decision Makers. NJ Office of Emergency Management, NJ State Police, 2018–2019 (\$50,000).

The New Jersey Mesonet: Continued Operations and Maintenance. New Jersey Department of Environmental Protection, 2018–2019 (\$180,000).

Lawn Watering Observation Services. Suez Water Management and Services Inc., 2018 (\$20,350).

Enhanced Historical Monitoring of Snow Cover Across Northern Hemisphere Lands. NOAA, 2017–2019 (\$283,452).

NJFireNet: continuation. USDA Forest Service, 2017–2018 (\$25,000).

Ongoing Monitoring and Interpretation of New Jersey’s Weather for Emergency Management Decision Makers. NJ Office of Emergency Management, NJ State Police, 2017–2018 (\$50,000).

Snow Cover Climate Data Record Sustainment and Maintenance. NOAA, 2017–2018 (\$50,000).

Lawn Watering Observation Services. Suez Water Management and Services Inc., 2017–2018 (\$34,100).

NOAA National Weather Service National Mesonet Expansion. Stinger Ghaffarian Technologies/Synoptic, Inc., 2017–2018.

Ongoing Monitoring and Interpretation of New Jersey’s Weather for Emergency Management Decision Makers. NJ Office of Emergency Management, NJ State Police, 2016–2017.

NJFireNet: continuation. USDA Forest Service, 2016–2017 (\$25,000).

Snow Cover Climate Data Record Sustainment and Maintenance. NOAA, 2016–2017.

Delaware River Railway Weather Station Project. Gloucester County, NJ, 2015–2019.

Toward Improving Understanding of Extreme Snow Melt Runoff Events Under Past, Present, and Future Climate. NOAA, 2014–2018.

Lawn Watering Observation Services. Suez Water Management and Services Inc., 2016–2017.

NOAA National Weather Service National Mesonet Expansion. Global Science and Technology, 2015–2017.

Ongoing Monitoring and Interpretation of New Jersey’s Weather for Emergency Management Decision Makers. NJ Office of Emergency Management, NJ State Police, 2015–2016.

Lawn Watering Observation Services. United Water Company, 2015–2016.

Snow Cover Climate Data Record Sustainment and Maintenance. NOAA, 2015–2016.

NJFireNet: continuation. USDA Forest Service, 2015–2016.

The New Jersey Mesonet: Continued Operations and Maintenance. New Jersey Department of Environmental Protection, 2015–2016.

Snow Ablation Characteristics and Melt–Discharge Relationships in the Columbia Basin. NOAA National Centers for Environmental Prediction/Global Science and Technology, 2014–2016.

NOAA National Weather Service National Mesonet Expansion. Global Science and Technology, 2014–2015.

Ongoing Monitoring and Interpretation of New Jersey’s Weather for Emergency Management Decision Makers. NJ Office of Emergency Management, NJ State Police, 2014–2015.

NJFireNet: continuation. USDA Forest Service, 2014–2015.

The New Jersey Mesonet: Continued Operations and Maintenance. New Jersey Department of Environmental Protection, 2014–2015.

Snow Cover Climate Data Record Sustainment and Maintenance, NOAA, 2014–2015.

Best Practices in Coastal Storm Risk Communication. NOAA Sea Grant. (C. Cuite, PI), 2014–2015.

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, 2013–2014.

NJFireNet: continuation. USDA Forest Service, 2013–2014.

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, 2013–2015.

Monthly Reports of New Jersey Weather and Climate, American Association of State Climatologists, 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, 2012–2013.

NOAA National Weather Service National Mesonet Expansion. Global Science and Technology, 2011–2014.

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, 2011–2013.

Monthly Reports of New Jersey Weather and Climate, American Association of State Climatologists, 2012.

NJFireNet: continuation. USDA Forest Service, 2011–2012.

Monthly Reports of New Jersey Weather and Climate, American Association of State Climatologists, 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, 2010–2011.

Monthly Reports of New Jersey Weather and Climate, American Association of State Climatologists, 2010.

NJFireNet: continuation. USDA Forest Service, 2010–2011.

U.S. Freshwater Resources in the Coming Decades: An Integrated Climate–Hydrologic Modeling Study. Environmental Protection Agency (Y. Fan, PI), 2010–2014.

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, 2009–2010.

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, 2009.

Development of an Integrated Northern Hemisphere Snow and Ice Operational Climate Data Record. NOAA, 2008–2011.

Development of Northern Hemisphere Snow Climate Data Records. NASA, 2008–2014.  
The NJ Mesonet: Ongoing Operations and Maintenance. NJ Department of Environmental Protection, 2008–2011.

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, 2008–2009.

Implementation of maintenance decision support system in New Jersey. NJ Institute of Technology/NJ Department of Transportation, 2007–2009.

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

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

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

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

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

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

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, 2005–2008.

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, 2005–2006.

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

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

Operational Monitoring of Global Snow Cover. NOAA, 2004–2005.

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

The NJ Weather Safety Network: Development, Operations and Training. NJ Office of Emergency Management, NJ State Police, 2004–2005.

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.

A Hybrid Approach for Evaluating and Predicting Interactions Between the Seasonal Snowpack and the Atmosphere. NASA, 2001–2004.

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, 2002–2003.

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

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

A Blended Northern Hemisphere Snow Dataset. NOAA, 2000–2004.

Collaborative Research on the Snow–Soil Moisture–Monsoon Relationship. National Science Foundation (NSF) (Atmospheric Sciences), 2000–2002.

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

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

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

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

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

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, 1997–2000.

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, 1994–1999.



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

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

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

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

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, 1993–1997.

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, 1993–1996.

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

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

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, 1991–1994.

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

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

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

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

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

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

Variability and Climate Significance of Snow in the Arctic Basin. NSF (Climate Dynamics),

1987–1989.

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

Seasonal Snow Cover Dynamics. NSF (Climate Dynamics), 1986–1987.

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

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

*Awarded internal*

Raritan Basin Weather and Climate Monitoring and Information Access. Rutgers University Raritan River Consortium, 2017–2018 (\$7,500).

Emergency Shelter Location and Resource Allocation. University Center for Disaster Preparedness and Emergency Response, Rutgers University (N. Fefferman and M. Baykal Gursoy, co-PIs), 2010–2011.

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, 2002–2004.

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

**Publications**

Author or co-author of 113 refereed articles, 19 peer-reviewed book chapters, 6 published databases, 109 non-refereed articles and technical reports, and 7 panel reports.

*Dissertation*

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

*Journal articles, published or in press*

Suriano, Z.J., D.A. Robinson and D.J. Leathers (2019). Changing snow depth climatology of the North American Great Lakes basin (USA): Implications and trends. *Anthropocene*, 26, doi:10.1016/j.ancene.2019.100208.

Washington, B., L. Seymour, T.L. Mote, D. Robinson, and T. Estilow, 2018. Identifying and extracting a seasonal streamflow signal from remotely sensed snow cover in the Columbia River Basin. *Remote Sensing Applications: Society and Environment*, 14, 207–223, doi:10.1016/j.rsase.2018.03.003.

Xue Y., I. Diallo, W. Li, J.D. Neelin, P.-C. Chu, R. Vasic, W. Guo, Q. Li, D.A. Robinson, Y. Zhu, C. Fu, and C. Oaida (2018). Spring land surface and subsurface temperature anomalies and subsequent downstream late spring-summer droughts/floods in North America and East Asia. *Journal of Geophysical Research Atmospheres*, 123, 5001–5019, doi:10.1029/2017JD028246.

Ballinger, T.J., R.V. Rohli, M.J. Allen, D.A. Robinson, and T.W. Estilow (2018) Half century perspectives on North American spring snowline and snow cover associations with the Pacific/North American pattern. *Climate Research*, 71, 204–216, doi: 10.3354/cr01499.

Stroeve, J., J. Mioduszewski, A. Rennermalm, L. Boisvert, M. Tedesco, and D. Robinson (2017) Investigating the local scale influence of sea ice on Greenland surface melt. *The Cryosphere*, 11, 2363–2381, doi:10.5194/tc-11-2363-2017.

Mahmood, R., R. Boyles, K. Brinson, C. Fiebrich, S. Foster, K. Hubbard, D. Robinson, J. Andresen, and D. Leathers (2017) Mesonets: meso-scale weather and climate observations for the U.S. *Bulletin of the American Meteorological Society*, doi:10.1175/BAMS-D-15-00258.1.

Kliver, D., T. Mote, D. Leathers, G.R. Henderson, W. Chan, and D.A. Robinson (2016) Creation and validation of a comprehensive 1° by 1° daily gridded North American dataset for 1900–2009: snowfall. *Journal of Atmospheric and Oceanic Technology*, 33, 857–871, doi:10.1175/JTECH-D-15-0027.1.

Rawlins, M.A., R.S. Bradley, H.F. Diaz, J.S. Kimball, and D.A. Robinson (2016) Future decreases in freezing days across North America. *Journal of Climate*, 29, 6923–6935, doi:10.1175/JCLI-D-15-0802.1.

Kunkel, K.E., D.A. Robinson, S. Champion, X. Yin, T. Estilow, and R.M. Frankson (2016) Trends in Northern Hemisphere snow extremes. *Current Climate Change Reports*, 2, 65–73, doi:10.1007/s40641-016-0036-8.

Xue, Y., C. Oaida, I. Diallo, J. Neelin, S. Li, F. DeSales, Y. Gu, D. Robinson, R. Vasic, and Y. Lan (2016) Spring land temperature anomalies in northwestern U.S. and the summer drought over southern plains and adjacent areas. *Environmental Research Letters*, 11, doi:10.1088/1748-9326/11/4/044018.

Kim, Y., J. Kimball, D. Robinson, and C. Derksen (2015) New satellite climate data records indicate strong coupling between recent frozen season changes and snow cover over high northern latitudes. *Environmental Research Letters*, 10, doi:10.1088/1748-9326/10/8/084004.

Mioduszewski, J.R., A. K. Rennermalm, D. A. Robinson, and L. Wang (2015) Controls on spatial and temporal variability in Northern Hemisphere terrestrial snow melt timing, 1979–2012. *Journal of Climate*, 28, 2136–2153, doi:10.1175/JCLI-D-14-00558.1.

Estilow, T. W., A.H. Young, and D.A. Robinson (2015) A long-term Northern Hemisphere snow cover extent data record for climate studies and monitoring. *Earth Syst. Sci. Data*, 7, 137–142, doi:10.5194/essd-7-137-2015.

Mioduszewski, J., Rennermalm, A., D.A. Robinson, and T. Mote (2014) Attribution of

snow melt onset in northern Canada. *Journal of Geophysical Research – Atmospheres*, 119, 9638–9653, doi:10.1002/2013JD021024.

Lawrimore, J. T.R. Karl, M. Squires, D.A. Robinson, and K.E. Kunkel (2014) Trends and variability in severe snowstorms east of the Rocky Mountains. *Journal of Hydrometeorology*, 15, 1762–1777, doi:10.1175/JHM-D-13-068.1.

Squires, M.S., J. H. Lawrimore, R. Heim Jr., D.A. Robinson, M.R. Gerbush, and T.W. Estilow (2014) The regional snowfall index. *Bulletin of the American Meteorological Society*, December 2014, 1835–1848, doi:10.1175/BAMS-D-13-00101.1.

Foster, J.L., J. Cohen, D.A. Robinson, and T.W. Estilow (2013). A look at the date of snowmelt and correlations with the Arctic Oscillation. *Annals Glaciology*, 54(62), 196–204, doi:10.3189/2013AoG62A090.

Rupp, D.E., P.W. Mote, N.L. Bindoff, P.A. Stott, and 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, and 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, and 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, and D.A. Robinson (2011) A review of global satellite-derived snow products. *Advances in Space Research*, 50, 1007–1029, doi:10.1016/j.asr.2011.12.021.

Decker, S.G., and 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, and D. Robinson (2011) Climate change summits for teens. *Green Teacher*, 93, 25–27.

Brown, R.D., and D.A. Robinson (2011) Northern Hemisphere spring snow cover variability and change over 1922–2010 including an assessment of uncertainty. *The*

*Cryosphere*, 5, 219–229, doi:10.5194/tc-5-219-2011.

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, and 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, and 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, and 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, and S. Kang (2010) Changing Northern Hemisphere snow seasons. *Journal of Climate*, 23, 5305–5310, doi:10.1175/2010JCLI3644.1.

Kunkel, K.E., M. Palecki, L. Ensor, D. Easterling, K.G. Hubbard, D. Robinson, and K. Redmond (2009) Trends in twentieth-century US extreme snowfall seasons. *Journal of Climate*, 22, 6204–6216, doi:10.1175/2009JCLI2631.1.

Yang, D., Y. Zhao, R. Armstrong, and D.A. Robinson (2009) Yukon River streamflow response to seasonal snowcover changes. *Hydrological Processes*, 23, 109–121, doi:10.1002/hyp.7216.

Kunkel, K.E., L. Ensor, M. Palecki, D. Easterling, D. Robinson, K.G. Hubbard, and 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, doi:10.1016/j.jglr.2008.11.003.

Kunkel, K.E., M. Palecki, L. Ensor, K.G. Hubbard, D.A. Robinson, K. Redmond, and 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, doi:10.1175/2008JTECHA1138.1.

Foster, J., D. Hall, D.A. Robinson, and T. Estilow (2008) Spring snow melt timing and changes over Arctic lands. *Polar Geography*, 31, 145–157, doi:10.1080/10889370802580185.

- Ye, H., D. Yang, and D.A. Robinson (2008) Winter rain on snow and its association with air temperature in northern Eurasia. *Hydrological Processes*, 22, 2728–2736, doi:10.1002/hyp.7094.
- Kunkel, K.E., M.A. Palecki, K.G. Hubbard, D.A. Robinson, K.T. Redmond, and D.R. Easterling (2007) Trend identification in twentieth-century U.S. snowfall: the challenges. *Journal of Atmospheric and Oceanic Technology*, 24, 64–73, doi:10.1175/JTECH2017.1.
- Yang, D., Y. Zhao, R. Armstrong, D. Robinson, and 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, and 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 – Atmospheres*, 111, D24111, doi:10.1029/2006JD007337.
- Choi, G., W-T Kwon, and D.A. Robinson (2006) Seasonal onset and duration in South Korea. *Journal of the Korean Geographical Society*, 41 (4), 435–456.
- Frei, A., R. Brown, J.A. Miller, and 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, doi:10.1175/JHM443.1.
- Gong, G., D. Entekhabi, J. Cohen, and 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, and D. Robinson (2004) The role of airmass types and surface energy fluxes in snow cover ablation in the central Appalachians. *Journal of Applied Meteorology*, 43, 1887–1898, doi:10.1175/JAM2172.1.
- Pielke, R.A., Sr., G.E. Liston, W.L. Chapman, and D.A. Robinson (2004) Actual and insolation-weighted Northern Hemisphere snow cover and sea-ice between 1973–2002. *Climate Dynamics*, 22, 591–595, doi:10.1007/s00382-004-0401-5.
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Arthur, J.L., G.R. Henderson, D.J. Leathers, D.A. Robinson, and T. Mote (2016) A climatology of peak stream discharge in relation to rapid ablation events in the Chesapeake basin: 1950–2009. *15<sup>th</sup> Annual Student Conference*. American Meteorological Society. New Orleans, LA.

Choi, G., and D.A. Robinson (2016) Changing global seasonal onsets and durations. *28<sup>th</sup> Conference on Climate Variability and Change*. American Meteorological Society, New Orleans, LA.

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Robinson, D.A. (2012) Hemispheric to regional dimensions of snow cover extent. *69<sup>th</sup> Annual Eastern Snow Conference*. Claryville, NY.

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Robinson, D.A., M. Gerbush, and S. Kealy (2012) New Jersey precipitation observations from multiple sources. *99<sup>th</sup> Annual Meeting of the New Jersey Mosquito Control Association*. Atlantic City, NJ.

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Brown, R.D., and D.A. Robinson (2011) An updated record of Northern Hemisphere spring snow cover extent with estimates of uncertainty, 1922–2010. *2011 American Geophysical Union Fall Meeting*. San Francisco, CA, C14A-07.

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Robinson, D.A., G. Henderson, M. Anderson, D. Hall, T. Mote, C. Fowler, J. Maslanik and S. Drobot (2011) Development of Snow Cover Climate Data Records Over Land, and Ice. *World Climate Research Programme Open Science Conference: Climate Research in Service to Society*. Denver, CO.

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Mioduszewski, J.R., A.K. Rennermalm, and D.A. Robinson (2011) An integrated characterization of the surface radiation balance during spring snowmelt in central Eurasia. *11<sup>th</sup> Conference on Polar Meteorology and Oceanography*. American Meteorological Society, Boston, MA, P5.1.

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Frei, A., M. Tedesco, S. Lee, J. Foster, D.K. Hall, R. Kelly, and D.A. Robinson (2011) A review and assessment of current-generation satellite-based snow products. *68<sup>th</sup> Annual Eastern Snow Conference*. Montreal, Quebec.

Robinson, D.A. (2011) What is happening with the cryosphere? *6<sup>th</sup> European Association of Remote Sensing Labs Land Ice and Snow Special Interest Group Workshop*. Bern, Switzerland, 10.

Robinson, D.A. (2011) Comparing GlobSnow and NOAA IMS snow maps. *6<sup>th</sup> European Association of Remote Sensing Labs Land Ice and Snow Special Interest Group Workshop*. Bern, Switzerland, 62.

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Mote, T.L., and D.A. Robinson (2010) Assessment of the stability of satellite snow cover CDRs using station snow depth observations, *2010 American Geophysical Union Fall Meeting*. San Francisco, CA, C21C-0568.

Lawrimore, J.H., M.F. Squires, and D.A. Robinson (2010) Development and Application of a Regional Snowfall Impact Scale. *2010 American Geophysical Union Fall Meeting*. San Francisco, CA, NH21B-1405.

Gerbush, M., D.A. Robinson, T.W. Estilow, M.F. Squires, J.H. Lawrimore, and R.R. Heim (2010) Using regional snowfall indices to evaluate climatological trends in high impact snow snowstorms. *2010 American Geophysical Union Fall Meeting*. San Francisco, CA, NH21B-1404.

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Squires, M.F., J.H. Lawrimore, R.R. Heim, D.A. Robinson, M.R. Gerbush, and T.W. Estilow (2010) Development of regional snowfall indices. *Abstracts: 18<sup>th</sup> Conference on Applied Climatology*. American Meteorological Society, Atlanta, GA, 9.3.

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Ghatak, D., A. Frei, G. Gong, J.C. Strove, and D.A. Robinson (2009) Interaction between Northern hemisphere snow and preceding summer Arctic sea ice. *2009 American Geophysical Union Fall Meeting*. San Francisco, CA, GC51A-0717.

Choi, G., D.A. Robinson, and S. Kang (2009) Changes in Northern Hemisphere vegetation and carbon dioxide seasons. *2009 American Geophysical Union Fall Meeting*. San Francisco, CA, B31B-0339.

Stroeve, J.C., A. Frei, G. Gong, D. Ghatak, D.A. Robinson, and D. Kindig (2009) Precipitation Impacts of a Shrinking Arctic Sea Ice Cover. *2009 American Geophysical Union Fall Meeting*. San Francisco, CA, C41A-0425.

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Robinson, D.A. (2007) State climatologists serving the public through interactions with the media. *16<sup>th</sup> Conference on Applied Climatology*. American Meteorological Society, San Antonio, TX.

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Robinson, D.A., and T. Estilow (2007) Improved monitoring of hemispheric snow cover extent. *19<sup>th</sup> Conference on Climate Variability and Change*. American Meteorological Society, San Antonio, TX.

Kunkel, K.E., M.A. Palecki, K.G. Hubbard, D.A. Robinson, K.T. Redmond, D.R. Easterling, and L. Ensor (2007) U.S. snowfall trends for 1900–2004. *19<sup>th</sup> Conference on Climate Variability and Change*. American Meteorological Society, San Antonio, TX.

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Robinson, D.A., and R.R. Heim (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, C12A-06.

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cover and atmospheric circulation in the Northern Hemisphere, 1967–2004. *Abstracts: 2005 American Geophysical Union Fall Meeting*. San Francisco, CA, C11C-06.

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Choi, G., and D.A. Robinson (2005) Potential relationships between vernal snow extent and atmospheric circulation in the northern hemisphere. *Association of American Geographers 101<sup>st</sup> Annual Meeting*. Denver, CO.

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Frei, A., R. Brown, C. Derksen, G. Gong, J.A. Miller, and D.A. Robinson (2005) Simulations of North American snow cover by AGCMs and AOGCs. *Proceedings of the 62<sup>nd</sup> Eastern Snow Conference*. Waterloo, Ontario.

Choi, G., W-T Kwon, and 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, and D.A. Robinson (2004) Multi-urban heat islands in Seoul, Korea. *Proceedings 30th International Geographical Congress*. Glasgow, UK.

Choi, G., D.W. Gwynn, and D.A. Robinson (2004) Using ASTER TIR imagery to Identify heat islands: a case study of New Jersey. *2004 Spring Conference*. Korean Geographical Society.

Robinson, D.A. (2004) Satellite-derived climate data record of snow cover into the 21<sup>st</sup> century. *Association of American Geographers 100<sup>th</sup> Annual Meeting*. Philadelphia, PA.

Frei, A., H. Ye, R. Brown, and D.A. Robinson (2004) Multidecadal variability of North American snow cover. *Association of American Geographers 100<sup>th</sup> Annual Meeting*. Philadelphia, PA.

Leathers, D.J., and D.A. Robinson (2004) Snow cover ablation in the Appalachian Mountains: a microclimatic study. *Association of American Geographers 100<sup>th</sup> Annual Meeting*. Philadelphia, PA.

Hall, D.K., J.L. Foster, and 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*, Anchorage, AK.

Zhao, Y., D. Yang, D. Robinson, T. Estilow, M.J. Brodzik, and R. Armstrong (2003) Streamflow response to snowcover extent and mass changes in large northern rivers. *54th Arctic Science Conference*. American Association for the Advancement of Science, Fairbanks, AK.

Robinson, D.A., and 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.

Brown, R., B. Brasnett, and D.A. Robinson (2003) Development of a gridded North American snow depth and water equivalent dataset for GCM evaluation – results with an enhanced snowpack model. *Snow Watch 2002*. Silver Spring, MD. *Glaciological Data*, Report GD-32, National Snow and Ice Data Center, Boulder, CO, 12.

Frei, A., J. Miller, D.A. Robinson, R. Brown, T. Mote, and 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.

Yang, D., D. A. Robinson, Y. Zhau, and T. Estilow (2003) Streamflow response to snow cover extent change in large Siberian rivers. *Snow Watch 2002*. Silver Spring, MD. *Glaciological Data*, Report GD-32, National Snow and Ice Data Center, Boulder, CO, 17.

Roads, J. and 30 others (2003) GCIP water and energy budget synthesis (WEBS). *17<sup>th</sup> Conference on Hydrology*. American Meteorological Society, Long Beach, CA, paper 50322.

Choi, G., W.T. Kwon, and D.A. Robinson (2003) Changes of natural seasonal cycles during the 20<sup>th</sup> century in South Korea. *Association of American Geographers 99<sup>th</sup> Annual Meeting*. New Orleans, LA.

Mote, T.L., and 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, and A. Grundstein (2002) Evaluation of AMIP-2 snow cover simulations. *AMIP-2 Conference*. Paris, France.

Yang, 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, and D.A. Robinson (2002) The observed Relationship between snow cover, soil moisture, and the Indian summer monsoon. *27<sup>th</sup> General Assembly of the European Geophysical Society*. Nice, France.

Brown, R., B. Brasnett, and 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. *59<sup>th</sup> Eastern Snow Conference*. Stowe, VT.

Robinson, D.A., D.J. Leathers, T.L. Mote, A. Grundstein, and 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, and 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, and G. Srinivasan (2001) The relationship between soil moisture, snow cover, and the Asian monsoon. *Proceedings of the 4<sup>th</sup> International GEWEX Meeting*. Paris, France.

Robinson, D.A. (2001) A Garden State Soaking from Hurricane Floyd. *Abstracts*:



*Association of American Geographers 97<sup>th</sup> Annual Meeting*. New York, NY.

Ramsay, B.H., and D.A. Robinson (2001) Comparison of the NESDIS weekly and daily Northern Hemisphere snow cover products. *58<sup>th</sup> Eastern Snow Conference*. Ottawa, Ontario.

Robinson, D.A. (2000) Weekly Northern Hemisphere Snow Maps: 1966–1999. *12<sup>th</sup> Conference on Applied Climatology*. American Meteorological Society, Asheville, NC.

Robinson, D.A. (2000) Hurricane Floyd precipitation in New Jersey. *12<sup>th</sup> Conference on Applied Climatology*. American Meteorological Society, Asheville, NC.

Robinson, D.A., and A. Bamzai (2000) Snow-temperature associations across Northern Hemisphere lands. *Association of American Geographers 96<sup>th</sup> Annual Meeting*. Pittsburgh, PA.

Ramsay, B., D. Tarpley, and 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, and A. Frei (1999) Evaluation of Snow Water Equivalent Across Grassland Regions: An Initial Report. *NASA Land Surface Hydrology Program Investigators Meeting*. Columbia, MD.

Frei, A., A.W. Nolin, M.C. Serreze, R.L. Armstrong, D.L. McGinnis, and 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.

Hartley, S., and D.A. Robinson (1999) Atlantic sea surface temperatures and eastern United States climate, 1950–1992. *8<sup>th</sup> American Meteorological Society Conference on Climate Variations*. Denver, CO.

Zdanowiczl, C.M., G.A. Zielinski, D.A. Robinson, and C.P. Wakel (1998) Northern Hemisphere snow cover control on atmospheric dust loading: evidence from a new arctic ice core. *Dust Aerosols, Loess and Global Change Interdisciplinary Conference*. Seattle, WA.

Robinson, D.A. (1998) Northern Hemisphere Snow Extent During the Satellite Era. *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 55<sup>th</sup> Eastern Snow Conference*.

Hartley, S., and D.A. Robinson (1998) A shift in winter season timing in the northern Plains as indicated by temporal analysis of heating degree days. *Association of American Geographers 94<sup>th</sup> Annual Meeting*.

Robinson, D.A. (1997) Monitoring Snow Cover from Space. *Transactions American Geophysical Union*, 78.

Frei, A., M.G. Hughes, and D.A. Robinson (1997) North American snow extent: November through April 1910–1993. *Association of American Geographers 93<sup>rd</sup> Annual Meeting*, 83.

Frei, A., M.G. Hughes, and 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, and D.A. Robinson (1997) The Pacific North American teleconnection signal of eastern U.S. snowfall. *Association of American Geographers 93<sup>rd</sup> Annual Meeting*, 238.

Frei, A., M.G. Hughes, and 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, and J.J. Wright (1996) Northern hemisphere snow cover fluctuations during the satellite era. *Association of American Geographers 92<sup>nd</sup> Annual Meeting*, 251.

Frei, A., and D.A. Robinson (1996) Regional snow cover fluctuations in the northern hemisphere derived from satellite observations. *Association of American Geographers 92<sup>nd</sup> 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 91<sup>st</sup> Annual Meeting*.

Frei, A., and D.A. Robinson (1995) Northern hemisphere regional snow cover: A comparison of observations and model results. *Association of American Geographers 91<sup>st</sup> Annual Meeting*.

Frei, A., and 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 90<sup>th</sup> Annual Meeting*, 320.

Frei, A., and D. A. Robinson (1994) Comparisons of GCM Northern Hemisphere snow cover simulations to observations. *Association of American Geographers 90<sup>th</sup> Annual Meeting*, 112–113.

Hughes, M.G., D.A. Robinson, and R.D. Brown (1994) Snow cover variability over the United States Great Plains and the Canadian prairies. *Association of American Geographers 90th Annual Meeting*, 169.

Spies, T.E., D.A. Robinson, and 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, and K. Dewey (1993) Climate variability as seen in daily temperature structure. *Minimax Workshop*, DOE/NOAA, 16.1–16.4.

Robinson, D.A. (1993) Hemispheric snow cover from visible and microwave satellite sensors. *Association of American Geographers 89th Annual Meeting*, 202.

Frei, A., and D.A. Robinson (1993) Northern Hemisphere snow climatology: comparing satellite data to modeling output. *Association of American Geographers 89th Annual Meeting*, 75.

Leathers, D.J., and D.A. Robinson (1993) The association between extremes in North American snow cover extent and United States temperature. *Association of American Geographers 89th Annual Meeting*, 133.

## **Professional Presentations**

### *Conference presentations*

Presented 195 papers at regional, national and international conferences (1980–present) and 195 invited lectures (1987–present).

### *Presentations at conferences since 1993*

Northern Hemisphere Continental Snow Cover During Transition Seasons: Linking the Arctic and Midlatitudes. 33<sup>rd</sup> Conference on Climate Variability and Change. American Meteorological Society, Boston, MA, 2020.

Locals Trusting Locals: Applied State Climate Services. 25<sup>th</sup> Conference on Applied Climatology, American Meteorological Society, Boston, MA, 2020 (INVITED).

Climate Change and New Jersey Precipitation, NJ Future Water Round Table (remote presentation), 2019 (INVITED).

Snow Cover Extent Monitoring Using the NOAA Snow Product. Snow Watch Conference, World Meteorological Organization, Montreal, Canada, 2019 (INVITED).

Observing Weather and Climate in the Raritan Basin, Resilience and the Raritan Conference, New Brunswick, NJ, 2019 (INVITED).

Enhanced Monitoring of Snow Cover Extent Across Northern Hemisphere Lands. Eastern Snow Conference, Fairlee, VT, 2019.

Atmospheric Conditions and General Climate Systems as Related to New Jersey. NJ Water Monitoring Council, Lawrenceville, NJ, 2019 (INVITED).

Climate Change and New Jersey Extreme Weather. 5<sup>th</sup> Annual Conference of NJ Voluntary Organizations Active in Disasters, East Windsor, NJ, 2019 (INVITED).

New Jersey's Changing Climate, 106<sup>th</sup> Annual NJ Mosquito Control Convention, Cape May, NJ, 2019 (INVITED).

New Jersey's Evolving Climate. New Jersey State Agricultural Convention, Atlantic City, NJ, 2019 (KEYNOTE).

Extreme Weather and Other Mounting Climate Change Impacts: The Future is Now. Urgent Threats Forum, New York University, New York, 2018 (INVITED).

New Jersey's Precipitation Regime. NJ Water Resources Association Future Risk Symposium: Future Flooding in Riverine Systems, Hillsborough, NJ, 2018 (KEYNOTE).

Climate Change in New Jersey Communities of Color. Ethnic Media Services and the Rutgers Climate Institute Media Roundtable, New Brunswick, NJ, 2018 (INVITED).

Extreme Heat: Short and Long Term Impacts. International Center for Enterprise Preparedness Forum, New York University, New York, 2018 (INVITED).

Not Your Grandparents' State Climatologist. 19<sup>th</sup> Southern New England Weather Conference, Foxborough, MA, 2018 (INVITED).

Assessment of the Stability of Satellite-derived Snow Extent Using Station Snow Depth Observations. Eastern Snow Conference, College Park, MD, 2018.

Middle East Snow Cover Variability and Associated Atmospheric and Hydrologic Conditions. Eastern Snow Conference, College Park, MD, 2018.

A Community Science Program Providing Valuable Precipitation Data to Guide Decision Making. American Geophysical Union Fall Meeting. New Orleans, LA, 2017 (INVITED).

Snowpack Variation and Hydrologic Impacts Across the Middle East and North Africa. American Geophysical Union Fall Meeting. New Orleans, LA, 2017.

Sandy Roared: Revisiting Physical Aspects of the Storm. Superstorm Sandy: Five Years Later Conference. Meadowlands Environmental Research Institute, Lyndhurst, NJ, 2017 (KEYNOTE).

The Role of a State Climate Office in State and Local Hazard Mitigation Planning. 23<sup>rd</sup> Conference on Applied Climatology, American Meteorological Society, Asheville, NC, 2017.

Weather Information for the Emergency Management Community. 2017 New Jersey Emergency Preparedness Conference, Atlantic City, NJ, 2017.

Exploring NJ Climate Variability and Change. 21<sup>st</sup> Annual New Jersey Land Conservation Rally, New Brunswick, NJ, 2017 (KEYNOTE).

Exploring NJ Climate Variability and Change. 41<sup>st</sup> Annual Rutgers Home Gardeners School, New Brunswick, NJ, 2017 (KEYNOTE).

The Importance of In Situ Snow Cover Observations in Monitoring Climate Variability and Change. Annual Meeting of the American Association of Geographers, Boston, MA, 2017.

Superstorm Sandy: Lessons Regarding Warnings and Responses. 12<sup>th</sup> Symposium on Societal Applications: Policy, Research and Practice. American Meteorological Society, Seattle, WA, 2017 (INVITED).

50 Years of Satellite Snow Cover Extent Mapping Over Northern Hemisphere Lands. 29<sup>th</sup> Conference on Climate Variability and Change, American Meteorological Society, Seattle, WA, 2017.

The Interactive Multi-sensor Snow and Ice Mapping System (IMS) Over the Last Two Decades. American Geophysical Union Fall Meeting. San Francisco, CA, 2016.

50 Years of Satellite Snow Extent Mapping Over Northern Hemisphere Lands. American Geophysical Union Fall Meeting. San Francisco, CA, 2016.

Exploring New Jersey Climate Variability and Change. 43<sup>rd</sup> Annual Environmental Congress, Association of New Jersey Environmental Commissions. West Windsor, NJ, 2016 (KEYNOTE).

50 Years of Satellite Snow Extent Mapping Over Northern Hemisphere Lands. 73<sup>rd</sup> Eastern Snow Conference. Columbus, OH, 2016.  
NOAA Satellite Snow Cover Extent Climate Data Record at the Half-Century Mark. Snow Watch 2016. Columbus, OH, 2016 (INVITED).

Satellite Monitoring of Snow Cover Extent for Hydrological Purposes. Symposium in Honor of Eric Wood: Observations and Modeling Across Scales. Princeton, NJ, 2016.

State Climate Offices Assisting Decision Makers. National Weather Service National Climate Services Meeting, Silver Spring, MD, 2016 (INVITED).

Developing a Coastal Storm Severity Index. 2016 New Jersey Emergency Preparedness Conference, Atlantic City, NJ, 2016.

Climate Change and Land Use. 20<sup>th</sup> Annual New Jersey Land Conservation Rally, Trenton, NJ, 2016 (INVITED).

Pinelands Weather and Climate: Past, Present and Future. Pinelands Short Course, Galloway Township, NJ, 2016 (INVITED).

Societal Benefits of Mesonets: a New Jersey Example. 22<sup>nd</sup> Conference on Applied Climatology and 18<sup>th</sup> Symposium on Meteorological Observations and Instrumentation. American Meteorological Society, New Orleans, LA, 2016 (INVITED).

Anticipating Climate Variability: A Local View, Locals Trusting Locals. 22<sup>nd</sup> Conference on Applied Climatology and 7<sup>th</sup> Conference on Weather, Climate, Water, and the New Energy Economy. American Meteorological Society, New Orleans, LA, 2016 (INVITED).

New Jersey and New York Mesonets. Catskills Extreme Events Workshop, New York City, NY, 2016.

Snow Cover Extent CDR: Applications and Societal Benefits. NOAA Climate Data Record Annual Meeting, National Centers for Environmental Information, Asheville, NC, 2015 (INVITED).

Declining spring snow cover over Northern Hemisphere lands. European Geophysical Union General Assembly 2015, Vienna, Austria, 2015.

Assessment of the Stability of a Satellite Snow Extent CDR from Station Snow Depth Observations. 2<sup>nd</sup> International Satellite Snow Products Intercomparison Workshop, Boulder, CO, 2015.

Climate Change and the Raritan Basin. Raritan Headwaters Association State of the Watershed Conference, Oldwick, NJ, 2015 (KEYNOTE).

Exploring New Jersey's Climate Variability and Change. Sustainable Jersey Summit, Ewing, NJ, 2015 (INVITED).

New Jersey's Weather and Climate: Accessing and Analyzing Data. Workshop presentation with M. Holzer, NJ Science Convention, Princeton, NJ, 2015 (INVITED).

Exploring New Jersey's Climate Variability and Change. NJ Science Convention, Princeton, NJ, 2015 (KEYNOTE).

Climate Variability and Change in the Mid Atlantic. Extreme Events and Climate Adaptation Planning Workshop, U.S. Environmental Protection Agency, Edison, NJ, 2015 (KEYNOTE).

Best Practices in Coastal Storm Risk Communication. 2015 New Jersey Emergency Preparedness Conference, Atlantic City, NJ (with C. Cuite and R. Shwom), 2015.

Weather Information for the Emergency Management Community. 2015 New Jersey Emergency Preparedness Conference, Atlantic City, NJ (with M. Gerbush), 2015.

Weather Trends and Hot Summer Days. Why Smog Matters Symposium, NJ Department of Environmental Protection, Piscataway, NJ, 2015 (INVITED).

Exploring New Jersey Climate Variability and Change. Annual Conference of the Geological Association of New Jersey, Stockton, NJ, 2015 (INVITED).

Exploring Tri-State Climate Variability and Change. 5<sup>th</sup> Tri-State Weather Conference, Western Connecticut University, Danbury, CT, 2014 (INVITED).

The Passaic River Basin and Climate Change. Passaic River Symposium VI, Montclair, NJ, 2014 (KEYNOTE).

New Jersey Climate Variability and Change. Restoration and Resilience in New Jersey's Forests Conference, Hillsborough, NJ, 2013 (INVITED).

Sandy's Fury. 5<sup>th</sup> 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).

Evaluating Recent Weather and Climate Variability. Ivy+ IT Auditors Conference, New Brunswick, NJ, 2013 (INVITED).

Weather or Not? New Jersey Climate Change. New Jersey Emergency Preparedness Conference Workshop on Hazardous Weather and Flooding Preparedness, Atlantic City, NJ, 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, 69<sup>th</sup> Annual Eastern Snow Conference, Claryville, NY, 2012 (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. 99<sup>th</sup> Annual Meeting of the New Jersey Mosquito Control Association, Atlantic City, NJ, 2012 (KEYNOTE).

Climate Change and Public Health. New Jersey Association of City and County Health Officials Annual Meeting, Holmdel, NJ, 2012 (KEYNOTE).

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. 24<sup>th</sup> Conference on Climate Variability and Change, American Meteorological Society, New Orleans, LA, 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).

New Jersey's Changing Climate. Higher Education, Resources and Opportunities for Exceptional Scholars Conference, New Brunswick, NJ, 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? 6<sup>th</sup> 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. 6<sup>th</sup> 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, 2010 (KEYNOTE).

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

Changing Climate from a Scientist's View: With a New Jersey Focus. NJ 4-H Climate Change Investigations Professional Development Workshop, 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. 22<sup>nd</sup> Symposium on Climate Variability and Change, American Meteorological Society, Atlanta, GA, 2010.

State Climate Offices Providing Stakeholder-driven Climate Services at the Local Level. 18<sup>th</sup> 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 Weather and Future Impacts of Climate Change. Marine Activities Resources and Education (MARE) Follow-up Workshop, New Brunswick, NJ, 2009 (INVITED).

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. 8<sup>th</sup> 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. 6<sup>th</sup> Annual Volunteer Monitoring and Education Summit, NJ Department of Environmental Protection, Whippany, NJ, 2008.

New Jersey's Weather. 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 (INVITED).  
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. 17<sup>th</sup> Conference on Applied Climatology, American Meteorological Society, Whistler, BC, 2008.

Operational Ranking of U.S. Snowfall Events. 17<sup>th</sup> 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).

Climate Change: Real? Important? Mid-Atlantic Chapter of the Urban and Regional Information Systems Association Annual Meeting, Mount Laurel, NJ, 2008 (KEYNOTE).

Tracking New Jersey's Weather and Climate. NJ Cranberry Growers Association Annual Meeting, Bordentown, NJ, 2008 (INVITED).

Keeping an Eye on New Jersey's Weather and Climate. NJ Agribusiness Association Annual Conference, Bordentown, NJ, 2008 (INVITED).

Northern Hemisphere Snow Extent Monitoring. Snow Workshop. Environment Canada, Toronto, Ontario, 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. 17<sup>th</sup> 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, NJ, 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. 22<sup>nd</sup> 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. 16<sup>th</sup> Conference on Applied Climatology, American Meteorological Society, San Antonio, TX, 2007 (INVITED).

Issues of Drought Within a State Climate Office. 16<sup>th</sup> Conference on Applied Climatology, American Meteorological Society, San Antonio, TX, 2007.

Improved Monitoring of Hemispheric Snow Cover Extent. 19<sup>th</sup> 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 20<sup>th</sup> Century US snowfall. American Association of State Climatologists 31<sup>st</sup> annual meeting, Rapid City, SD, 2006.

Issues with Identification of Trends in 20<sup>th</sup> Century US Snowfall. Eastern Snow Conference 63<sup>rd</sup> 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.

Water in New Jersey. Annual Emma Lausten Horticulture Symposium, Bordentown, NJ, 2006 (INVITED).

New Jersey Weather Resources for Cranberry Farmers. NJ Cranberry Growers Association Annual Meeting, Bordentown, NJ, 2006 (INVITED).

Keeping a Watchful Eye on New Jersey's Weather and Climate. Flood No More Storm Water Management Symposium, Bordentown, NJ, 2005 (INVITED).

Climate Change and the Garden State. NJ Catholic Coalition for Environmental Justice Annual Convention, Lakewood, NJ, 2005 (INVITED).

Climate Issues for New Jersey's Farmers. 87<sup>th</sup> Annual New Jersey Farm Bureau Convention, East Brunswick, NJ, 2005 (INVITED).

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. 15<sup>th</sup> 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 100<sup>th</sup> 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 (INVITED).

Recent Variability of Northern Hemisphere Snow Cover. Seventh Conference on Polar Meteorology and Oceanography, American Meteorological Society, Hyannis, MA, 2003.

New Jersey Weather and Climate Network. New Jersey Emergency Preparedness Conference, Atlantic City, NJ, 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. Symposium on Deciphering the Complex Changes in Global Snow and Ice. American Association for the Advancement of Science Annual Meeting, Boston, MA, 2002 (INVITED).

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. 13<sup>th</sup> Conference on Applied Climatology, American Meteorological Society, Portland, OR, 2002.

Snow Cover Data for Applied Climate Studies. 13<sup>th</sup> 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 a SQL Database with Real-time Java Maps for the NJ WxNet. 18<sup>th</sup> 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. 12<sup>th</sup> Symposium on Global Change and Climate Variations. American Meteorological Society, Albuquerque, NM, 2001.

Educational Outreach Activities of a State Climate Office. 10<sup>th</sup> Symposium on Education. American Meteorological Society, Albuquerque, NM, 2001.

Northern Hemisphere Snow Cover: 1966–present. 25<sup>th</sup> 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.

Winter Weather in New Jersey. Winter Operations Conference, New Jersey Department of Transportation, West Windsor, NJ, 2000 (INVITED).

Weekly Northern Hemisphere Snow Maps: 1966–1999. 12<sup>th</sup> Conference on Applied Climatology, American Meteorological Society, Asheville, NC, 2000.

Hurricane Floyd Precipitation in New Jersey. 12<sup>th</sup> 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 (INVITED).

Northern Hemisphere Snow Extent During the Satellite Era. 5<sup>th</sup> Conference of Polar Meteorology and Oceanography, American Meteorological Society, Dallas, TX, 1999.

Transition from NOAA Weekly to Daily Hemispheric Snow Charts. 10<sup>th</sup> 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).

The Weather and Climate of New Jersey. 22<sup>nd</sup> Annual New Jersey Science Convention, Somerset, NJ, 1998 (INVITED).

Gathering Climatic Data of the Highest Quality. 10th Conference on Applied Climatology, Reno, NV, 1997.

A Northern Hemisphere Snow Cover Climatology Using Satellite information. 10<sup>th</sup> 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. 18<sup>th</sup> 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 non-conference presentations since 1987*

Women's League of Rutgers, New Brunswick, NJ, 2019.

Puffin Society, Teaneck, NJ, 2019.

Somerset Run, Somerset, NJ, 2019.  
 Highland Park Civics for the Community Series, Highland Park, NJ, 2019.  
 Monroe Township Green, Health and Wellness Fair, Monroe, NJ, 2019.  
 Watershed Institute, Hopewell Township, NJ, 2019.  
 Langosta Lounge, Asbury Park, NJ, 2019.  
 League of Women's Voters, New Providence, NJ, 2019.  
 New Jersey Department of Environmental Protection, Trenton, NJ, 2019.  
 Great Swamp Watershed Association, Morristown, NJ, 2019.  
 Princeton Plasma Physics Lab Science on Saturday Series, Princeton, NJ, 2019.  
 Rutgers Climate Institute Luncheon, New Brunswick, NJ, 2019.  
 Duke Farms Master Ecologists Program, Hillsborough, NJ, 2019.  
 NJ Chapter of The Nature Conservancy, Princeton, NJ, 2018.  
 Concordia Astronomy and Science Club, Monroe, NJ, 2018.  
 Lamont-Doherty Earth Observatory of Columbia University, Palisades, NJ, 2018.  
 Chinese Meteorological Administration Delegation, Newark, NJ, 2018.  
 Watershed Institute, Princeton, NJ, 2018.  
 Rutgers Upward Bound Program, Piscataway, NJ, 2018.  
 NJ Agricultural Experiment Station Extension Specialists, New Brunswick, NJ, 2018.  
 PCUSA Walk for a Fossil Free World, (remote from NJ to Kentucky), 2018.  
 NJ Department of Environmental Protection, Trenton, NJ, 2018.  
 NJ Office of Emergency Management, West Trenton, NJ, 2018.  
 Livingston Public Library, Livingston, NJ, 2018.  
 AARP Retired Professors Association, New Brunswick, NJ, 2018.  
 Central New Jersey Mensa Association, Woodbridge, NJ, 2018.  
 All Saints School, Manahawkin, NJ, 2018.  
 Jacobsen Elementary School, Surf City, NJ, 2018.  
 Pequannock Township Public Library, Pompton Plains, NJ, 2018.  
 Great Swamp Watershed Association, Morristown, NJ, 2018.  
 Pinelands Short Course, Stockton University, Galloway, NJ, 2018.  
 Raritan Valley Group of the Sierra Club New Jersey Chapter, Iselin, NJ, 2018.  
 Princeton Public Library, Princeton, NJ, 2018.  
 Ridgewood Public Library, Ridgewood, NJ, 2017.  
 Rockaway Public Library, Rockaway, NJ, 2017.  
 Valley Settlement House, West Orange, NJ, 2017.  
 Duke Farms Climate Science and Sustainable Actions Academy, Hillsborough, NJ, 2017.  
 Flat Rock Brook Nature Center, Englewood, NJ, 2017.  
 Friends of the East Brunswick Environmental Commission, East Brunswick, NJ, 2017.  
 Montville Public Library, Montville, NJ, 2017.  
 Colgate-Palmolive Global Technology Center, Piscataway, NJ, 2017.  
 Lord Stirling Park Environmental Education Center, Basking Ridge, NJ, 2017.  
 Old Guard, New Providence, NJ, 2017.  
 Guangdong Provincial Department of Water Resources water resource experts,  
 Piscataway, NJ, 2016.  
 Burlington County Master Gardeners, Westampton, NJ, 2016.  
 Hunterdon County Master Gardeners, Flemington, NJ, 2016.  
 Sierra Club, Clinton, NJ, 2016.  
 Rutgers-Camden Business Outlook, Cherry Hill, NJ, 2016.

Mercer County Master Gardeners, Lawrenceville, NJ, 2016.  
 Justice Stewart Pollock Environmental Inn of Court, Hillsborough, NJ, 2016.  
 Timberlane Middle School, Pennington, NJ, 2016.  
 Duke Farms, Hillsborough, NJ, 2016.  
 Mendham Public Library, Mendham, NJ, 2016.  
 Somerset County Master Gardeners, Bridgewater, NJ, 2016.  
 Lafayette Elementary School, Chatham, NJ, 2016.  
 NOAA Eastern Region Climate Services Webinar Series, 2016.  
 Climate and Environmental Change Teen Summit, New Brunswick, NJ, 2016.  
 NOAA Climate Stewards Education Project Webinar Series, 2015.  
 Canal Walk Senior Community Men's Club, Somerset, NJ, 2015.  
 Valley Settlement House, West Orange, NJ, 2015.  
 Great Swamp Watershed Association, Morristown, NJ, 2015.  
 Passaic Municipal Alliance of the Great Swamp Watershed Association, Morristown, NJ, 2015.  
 Blair Academy Skeptics Society, Blairstown, NJ, 2015.  
 N.J. Pinelands Commission Research Series, New Lisbon, NJ, 2015.  
 NOAA Cooperative Remote Sensing and Technology Center, New York City, NY, 2015.  
 Raritan Valley River Flood Control Commission, Somerville, NJ, 2015.  
 39<sup>th</sup> Annual New Jersey Science Convention (Banquet Speaker), Princeton, NJ, 2015.  
 US EPA Region 2 Extreme Events and Climate Adaptation Planning Workshop, Edison, NJ, 2015.  
 Eva Samo Lecture: South Orange-Maplewood Adult School, Maplewood, NJ, 2015.  
 Union of Concerned Scientists Webinar Series, 2015.  
 East Brunswick Women's Club, East Brunswick, NJ, 2015.  
 Brandeis University Alumni Association, East Brunswick, NJ, 2015.  
 New Jersey Chapter of the Nature Conservancy, West Orange, NJ, 2015.  
 China National Meteorological Bureau Modern Meteorology Management Delegation, Piscataway, NJ, 2015.  
 Rutgers Environmental Steward Program, South Brunswick, NJ, 2015–present.  
 Department of Geography, University of Connecticut, Storrs, CT, 2014.  
 Princeton Garden Club, Princeton, NJ, 2014.  
 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.  
 Rutgers Retired Professors Association, New Brunswick, 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: “Climate Assessment: Networks and Resources,” (webinar), 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: “Climate Assessment: Networks and Resources,” (webinar), 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.  
 St. Benedict Prep School, Newark, NJ, 2012.  
 Community Collaborative Rain, Hail and Snow Network: “In the Mood for Snow,” (webinar), 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.  
 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.  
 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.  
 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.  
 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 Skeptics Society, Blairstown, NJ, 2008.  
 School of Meteorology, University of Oklahoma, Norman, OK, 2008.  
 Millburn High School, Millburn, NJ, 2008.  
 National Weather Service Forecast Office, Mt. Holly, NJ, 2008.  
 Scotch Plains – Fanwood 6<sup>th</sup> grade (at Rutgers' Livingston Campus), 2008.  
 Liberty Science Center, Jersey City, NJ, 2007.  
 NJ Department of Environmental Protection, Trenton, NJ, 2007.  
 United States Geological Survey, West Trenton, NJ, 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, Warren, NJ, 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.  
 Flood Warning Users Group, Wayne, NJ, 2007.  
 Issues in Environmental Pollution Class, Cook College, New Brunswick, NJ, 2006–2010.  
 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.  
 China Meteorological Administration climate modeling group, Beijing, 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 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, Newark, NJ, 2001.  
 Plainfield High School Earth Science Teachers Workshop, Plainfield, NJ, 2001.  
 Kearny Public Schools Science Teachers Workshop, Kearny, NJ, 2001.  
 Merrill Lynch, Somerset, NJ, 2001.  
 Northern New Jersey Sail and Power Squadron, 2000.  
 Environmental and Occupational Health Sciences Institute, Piscataway, NJ, 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.  
 Kiwanis Club, North Brunswick, NJ, 1999.  
 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, Montclair, NJ, 1999.  
 Marine Sciences Research Center, State University of New York-Stony Brook, 1998.  
 Center for Ocean–Land–Atmosphere Studies, Calverton, MD, 1997.  
 Museum of American Weather conferences, Haverhill, NH, 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.  
 International Weather Watchers Annual Meeting, Washington, DC, 1996.  
 Old Guard, Westfield, NJ, 1995.  
 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, Mahwah, NJ, 1995.  
 National Research Council Weather Modernization Panel, Woods Hole, MA, 1995.  
 Flemington Baptist Church, Flemington, NJ, 1994.  
 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.  
 Society of Professional Journalists: New Jersey Chapter, New Brunswick, NJ, 1992.  
 Winter Weather Conference, New Brunswick, NJ, 1991.  
 NASA Goddard Space Flight Center, Greenbelt, MD, 1991.  
 University of Delaware Department of Geography, Newark, DE, 1991.  
 World Resources Institute, Washington, DC, 1990.  
 New Brunswick Adult Education Center, New Brunswick, NJ, 1990.  
 Temple Shalom Department of Adult Education, Plainfield, NJ, 1990.  
 University of Nebraska Department of Geography, Lincoln, NE, 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.  
 Northeast Climate Symposium, Montclair State University, Upper Montclair, NJ, 1987.  
 Association of American Weather Observers, Pinkham Notch, NH, 1987.

## **Professional Activities**

### *Appointed/elected positions*

National Mesonet Program, Advisory Board, member, 2017–present.

Steering Committee: National Soil Moisture Network, member, 2017–present.

Research Committee of the Eastern Snow Conference, member, 2016–present.

World Meteorological Organization Global Cryosphere Watch Snow Watch Team, member, 2015–present.

Watershed Association Science Advisory Committee, member, 2015–present.

NJ Sea Level Rise and Coastal Storms Science and Technical Advisory Panel, Rutgers Climate Institute and Bloustein School of Planning and Public Policy, member, 2015 present.

NASA International Snow Working Group Remote Sensing Steering Committee, member, 2014–present.

Satellite Snow Product Intercomparison and Evaluation Experiment Science Committee, member, 2014–present.

NOAA Climate Challenge Advisory Committee, member, 2014–present.

NOAA Eastern Region Climate Team, National Environmental Science and Data

Information Service, participant, 2013–present.

NASA International Snow Working Group-Remote Sensing, member, 2013–present.

Working Group for Network for Environment and Weather Applications, New York State Integrated Pest Management Program (covers Northeastern states), member, 2013–present.

Climate Adaptation Task Force, Sustainable Jersey and the NJ Department of Environmental Protection (also member of Public Health, Forest and Urban Climate subgroups), member, 2010–present.

Climate and Atmospheric Sciences Standing Committee, NJ Department of Environmental Protection, member, 2010–present.

NJ State Hazard Mitigation Core Development Team, NJ Office of Emergency Management, member, 2005–present.

National Weather Service StormReady Community Program, advisory board, 2001–present.

New Jersey Department of Environmental Protection Internal Drought Task Force, member, 1999–present.

Port Authority of New York and New Jersey Working Group on Climate Change Impacts, member, 2017–2019.

Passaic River Basin Climate Resilience Plan Technical Advisory Committee, member, 2017–2019.

National Academy of Sciences Board on Atmospheric Sciences and Climate, member, 2011–2018.

Committee on Effective Communication of Weather and Climate Information, American Meteorological Society, member, 2014–2018.

Ad-Hoc Committee on Naming Winter Storms, American Meteorological Society, member, 2016–2018.

Physical Climate Indicators Working Group, National Climate Assessment, member, 2013–2017.

Committee on Exploring the Development of a Coastal Zone Severity Index: Rutgers University, University of Delaware and Delaware Department of Natural Resources and Environmental Control participants, member, 2014–2018.

Committee for 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, member, 2011–2015.



Steering Group for the Consortium for Climate Risk in the Urban Northeast, NOAA Regional Integrated Sciences and Assessment Program, member, 2012–2014.

Integration of Social and Behavioral Research into Meteorological Products, Practice and Policies Scoping Meeting, National Academy of Sciences, chair, 2015.

12<sup>th</sup> Annual Climate Prediction Applications Science Workshop, organizing committee, 2014.

1st International Satellite Snow Products Intercomparison Workshop, College Park, MD, organizing committee, 2014.

Committee on Linkages between Arctic Warming and Mid-Latitude Weather Patterns: A Workshop, National Academy of Sciences Board on Atmospheric Sciences and Climate, chair, 2013–2014.

WEA1012 Managing and Utilizing Precipitation Observations from Volunteer Networks, National Information Management and Support System, Western Association of Agricultural Experiment Station Directors, chair, 2013–2014.

Organizing committee for Hurricane Sandy Symposium at 2014 American Meteorological Society Annual Conference, member, 2013–2014.

Chesapeake Bay Steering Committee, National Integrated Drought Information System, member, 2012–2014.

Northeast Climate Assessment. National Climate Assessment Steering Committee, US Global Climate Research Program, member, 2011–2014.

NOAA Climate Predictions Application Science Workshop Steering Committee, member, 2013.

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, co-chair, 2013.

American Meteorological Society writing team for Policy Statement on the Free and Open Exchange of Environmental Data, member, 2012–2013.

NASA Remote Sensing of Seasonal Snow Steering Committee, member, 2012–2013.

Federal Emergency Management Agency/National Oceanic and Atmospheric Administration Snow Advisory Working Group, member, 2011–2013.

National Oceanic and Atmospheric Administration Science Advisory Board Climate Working Group (NOAA's lead climate advisory committee), member, 2006–2013.

American Association of State Climatologists, executive committee, 2002–2013.

Participatory Planning Scenarios Group, National Climate Assessment, US Global Climate Research Program, member, 2011–2012.

Learning and Teaching Advisory Committee, Liberty Science Center, member, 2007–2012.

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

National Academy of Sciences Climate Research Committee, member, 2009–2011.

External Advisory Committee: NOAA Cooperative Remote Sensing Science and Technology (CREST) Center, member, 2002–2011.

National Integrated Drought Information System Implementation Team, member, 2006–2010.

National Research Council Committee: Archiving and Accessing Environmental and Geospatial Data at the National Ocean and Atmospheric Administration, chair, 2006–2008.

National Drought Product Team, National Weather Service, ad-hoc member, 2007.

Nominating Committee: American Association of State Climatologists, member, 2006–2007.

Applied Climatology Committee, American Meteorological Society, member, 2004–2008.

Cryosphere Specialty Group, Association of American Geographers, director, 2004–2008.

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

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

National Research Council Committee: Climate Data Records from Operational Satellites, chair, 2003–2005.

American Association of State Climatologists, president, 2003–2004.

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

Millstone River Watershed Technical Advisory Committee, member, 2001–2002.

Advisory Panel: NOAA Climate and Global Change Program – Climate Change Data and Detection Element, member, 2000–2008.

New Jersey Council for Global Change Education, member, 1997–2000.

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

American Meteorological Society Committee on Polar Meteorology and Oceanography, Member 1994–1997; chair, 1997–2000.

Ad hoc MODIS (Moderate Resolution Imaging Spectroradiometer) Cryosphere Advisory Committee, chair, 1996–2000.

National Drought Policy Commission: Monitoring and Prediction Working Group, member, 1999.

Advisory Committee: Climate Change in the Metro East Coast Region: A Regional Impacts Workshop. Columbia University, New York, member, 1998.

National Research Council Panel on the Modernization of the U.S. Cooperative Climate Observing Program, member, 1997–1998.

Climate Specialty Group, Association of American Geographers, director 1993–1995; chair, 1996–1998.

National Weather Service Montague, NY, January 1997 Snowfall Evaluation Committee, member, 1997.

National Research Council Global Energy and Water Cycle Experiment (GEWEX) Panel, member, 1993–1997.

World Meteorological Society Climate Observing System/Global Terrestrial Observing System Working Group on the Cryosphere, member, 1996.

NASA Earth and Space Science Master Directory Advisory Group, member, 1990–1995.

NASA Special Sensor Microwave Imager (SSM/I) Products Working Team, member, 1989–1993.

New Jersey Chapter of the American Meteorological Society, vice president, 1989–1991; president, 1991–1992.

NOAA Advisory Committee on the Modernization of the United States Cooperative Observers Program, member, 1991.

NOAA Cryosphere-High Latitude-Climate Science Planning Working Group, member, 1991.

First International Satellite Cloud Climatology Project Regional Experiment (FIRE) Research Team, member, 1986–1989.

NASA International Satellite Land Surface Climatology Project Data Preservation

Committee, member, 1984.

*Editorial*

Editorial Board, *Physical Geography*, 2009–2012.

Associate Editor, *Professional Geographer*, 2002–2005.

Associate Editor, *Professional Geographer*, 1994–1997.

*Manuscript and Book Reviews*

*Advances in Water Resources*  
*African Journal of Agricultural Research*  
American Geosciences Institute  
*American Geophysical Union Maurice*

*Ewing Series*

*Annals of Glaciology*

*Atmosfera*

*Atmosphere/Environment*

*Atmospheric Science Letters*

*Bulletin of the American Meteorological*  
*Society*

*Bulletin of the NJ Academy of Sciences*

C.E. Merrill Publishing Co.

*Consequences*

*Climate and Society*

*Climate Dynamics*

*Climate Research*

*Climatic Change*

Colorado State University

*Cryospheric Sciences Discussions*

*Earth Interactions*

Eastern Snow Conference

*Encyclopedia of Greater Philadelphia*

*Environment, Engineering and Geoscience*

*Environmental Research Letters*

European Space Agency

*Geophysical Research Letters*

Harper and Row

*Hydrologic Processes*

*Hydrology and Earth System Science*

*Discussions*

International Association of Hydrological  
Sciences

*International Journal of Climatology*

*Journal of Applied Meteorology and*  
*Climatology (formerly Journal of Applied*  
*Meteorology)*

*Journal of Atmospheric and Oceanic*  
*Technology*

*Journal of Climate (formerly Journal of*  
*Climate and Applied Meteorology)*

*Journal of Geophysical Research*

*Journal of Hydrometeorology*

*Journal of the American Water Resources*  
*Association*

*Journal of Service Climatology*

*Journal of Weather*

*Louisiana State University Press*

*Meteorological Applications*

*Meteorology and Atmospheric Physics*

Mosby-Yearbook

*NOAA Earth System Research Lab online*  
*information pages*

*Natural Hazards*

*Nature*

New Jersey Department of Environmental  
Protection

New Jersey PIRG Environment NJ program

New York City Panel on Climate Change

*Physical Geography*

*PLoS One (Public Library of Science)*

Prentice Hall

*Professional Geographer*

Prometheus Books

*Pure and Applied Geophysics*

*Recent Findings in Arctic Science*

*Remote Sensing*

*Remote Sensing of the Environment*

*Review of Scientific Reports*

*Science*

*Tellus*

*Temple University Press*

*The Cryosphere*

United Nations Environment Programme

*UNEP/GRID-Arendal (website)*  
US Army Corps of Engineers Cold Regions  
Research and Engineering Lab  
*Water Resources Research*

*Weather, Climate and Society*  
Western Snow Conference  
*WIREs Water*

*Proposal review*

American Association for the Advancement  
of Science  
California Energy Commission  
Canadian Foundation for Innovation  
California Space Institute  
Idaho Board of Education  
National Aeronautics and Space  
Administration  
National Geographic Society

National Institute for Global  
Environmental Change  
National Oceanic and Atmospheric  
Administration  
National Science and Engineering Research  
Council of Canada  
National Science Foundation  
U. S. Department of Energy

*Review committee*

NASA New Investigators Program Cryosphere Panel, 2018.

Consortium of Universities for the Advancement of Hydrologic Science Pathfinder  
Fellowship Application Committee, 2013.

Partnership for the Delaware Estuary, Five-year Indicator Report, 2012.

U.S. Federal Highway Administration proposal “Characterization of Climate Change Effects  
and Impacts on the U.S. Highway System,” 2009.

NOAA Climate Change Data and Detection Program, 2009.

International Research Institute for Climate and Society, Columbia University, 2007.

NOAA Climate Test Bed, 2007.

Science Products at the National Snow and Ice Data Center’s NASA Distributed Active  
Archive Center, 2006.

NOAA Regional Integrated Sciences and Assessments Program, 2005.

NOAA, National Climate Transition Program, 2005.

Evaluation panel member: NASA Land Surface Hydrology Program, 1999 and 2001.

NASA/NOAA Enhanced Data Sets for Analysis and Applications Program, 1997.

NSF Polar Programs Division, 1993.

NASA Earth Observing System Interdisciplinary Proposals, 1988.

New Jersey Department of Higher Education evaluation panel "Science, Math, and Computer Science Education for K-12 Teachers," 1986.

*External program review*

University of Delaware EPSCoR program, 2011.  
Department of Geography, University of Maryland, Baltimore County, 2011.  
Department of Geography, University of New Hampshire, 2010.  
Department of Geography, Oklahoma State University, 2008.  
Department of Meteorology and Geology, Kean University, 1995 and 2001.

*Miscellaneous review*

Promotion reviews for 70 faculty members at universities throughout the United States and Canada.

"North Carolina Climate Science Report." Springer. (in press).

"Handbook on Atmospheric Measurements" (in press)

"Climate Analysis," Ropelewski and Arkin, Cambridge University Press, 2019.

"Climate of Alaska" (Stewart et al) and "Climate of the Northeast US" (Kunkel et al) reports for the US National Climate Assessment, 2013.

Snow indicators section in US Environmental Protection Administration climate change indicators report, 2009 and 2013.

National Research Council report "Ensuring the Integrity, Accessibility, and Stewardship of Research Data in the Digital Age, 2009.

*Miscellaneous activities (not directly associated with the state climate office)*

State of the Climate. Annual report for the *Bulletin of the American Meteorological Society*. Contribution includes an evaluation of Northern Hemisphere and U.S. snow cover extent, contributor, 2001–present.

Lehigh University, Bethlehem, PA, visiting scholar, 2019.

Intergovernmental Panel on Climate Change (climate monitoring and cryosphere chapters), contributor, 2<sup>nd</sup>–5<sup>th</sup> reports 1995–2014.

Climate Science Day on Capitol Hill, Washington, DC (organized by multiple science organizations), invited participant, 2017.

Cryosphere Remote Sensing. 2016 American Geophysical Union Fall Meeting. San Francisco, CA, session co-chair, 2016.

"Arctic Alerts 2016" briefing at Hart Senate Building, sponsored by The Study of Environmental Arctic Change (SEARCH), Washington, DC, participant, 2016.

“Arctic Alerts 2016” briefing at The National Press Club, sponsored by The Study of Environmental Arctic Change (SEARCH), Washington, DC, participant, 2016.

Strategies for maintaining and expanding local and regional surface observing networks breakout group. AMS Observing the Environment from the Ground Up Forum. Washington, DC, facilitator, 2016.

Adapting to Climate Variability and its Impacts on Energy Sector Resilience, 22<sup>nd</sup> Annual Conference on Applied Climatology and 7<sup>th</sup> Conference on Weather, Climate, and the New Energy Economy. American Meteorological Society, New Orleans, LA, panel member, 2016.

Climate Change Indicators in the United States. US Environmental Protection Agency report (1<sup>st</sup> and 2<sup>nd</sup> editions), Data Provider and Indicator Reviewer: 2009–2016.

University of Connecticut, Storrs, CT, visiting scientist, 2014.

American Meteorological Society Washington Forum. International Session on Typhoon Haiyan, panel member, 2014.

Video classroom seminars for “Science in Cinema” program with high schools across NJ in other states and in India, 2008–2014.

Interviewed for several National Geographic Society television specials, 2013.

Interviewed for Public Broadcasting System television special on Typhoon Haiyan, 2013.

“Chasing Ice” film presentation, Rutgers University, Piscataway, NJ, panelist, 2013.

“White Arctic, Blue Arctic: Exploring Sea Ice Restoration Workshop,” Columbia University, New York, NY, participant, 2013.

Extreme Weather and Climate Change: How Can We Address Uncertainty, Rutgers University, New Brunswick, NJ, panelist, 2012.

Union of Concerned Scientists webinar on winter climate change, participant, 2012.

NOAA/Federal Emergency Management Agency Snow Workshop Planning Committee, Estes Park, CO, member, 2011.

Terrestrial Regional North American Hydroclimate Experiment Initial Community Discussion Workshop, Silver Spring, MD, invited participant, 2011.

“Climate Change Indicators in the United States.” US Environmental Protection Agency report, data provider and indicator reviewer, 2010.

Second-annual Town Hall Meeting on Cryospheric Climate Data Records. American

Geophysical Union Fall Meeting. San Francisco, CA, organizer, 2009.

Koc, N., B. Njastad, R. Armstrong, R.W. Corell, D.D. Jensen, K.R. Leslie, A. Rivera, Y. Tandong and J-G Winther (eds.) (2009). Melting snow and ice: a call for action. Centre for Ice, Climate and Ecosystems, Norwegian Polar Institute. 92pp., scientific contributor, 2009.

International Water Issues Forum. Rutgers University, New Brunswick, NJ, panel member, 2009.

Impact of Future Loss of Summer Arctic Sea Ice on Northern Hemisphere Snow Cover. NASA PIs: J. Stroeve, A. Frei, G. Gong, project consultant, 2008–2010.

Town Hall Meeting on cryospheric climate data records. American Geophysical Union Fall Meeting. San Francisco, CA, organizer, 2008.

Climate services round table: NOAA headquarters, Silver Spring, MD, participant, 2008.

The Role of Applied Climatology in a Changing Climate. 17<sup>th</sup> Conference on Applied Climatology, American Meteorological Society, Whistler, BC, round table member, 2008.

White House Office of Science and Technology Council's Subcommittee on Water Availability and Quality (under the Committee on Environment and Natural Resources), Executive Office Building, Washington, DC, invited presentation, 2008.

NOAA Data Archive and Access Requirements Working Group, Boulder, CO, invited presentations, 2008.

Environmental Education Program, The Peopling of Philadelphia Collaborative, Inc., New Brunswick, NJ, workshop co-leader, 2008.

NOAA Data Archive and Access Requirements Working Group, Chicago, IL, invited presentation, 2007.

NOAA Climate Board Long-Range Planning Workshop, Chicago, IL, invited participant, 2007.

NOAA Data Archive and Access Requirements Working Group, Washington, DC, invited presentation, 2006.

Conference on Climate Change Impacts on U.S. Transportation, The Transportation Research Board and Division on Earth and Life Studies, National Academies, Washington, DC, invited participant, 2006.

Climate Variability and Change Session, US. Climate Change Science Program Workshop: Climate Science in Support of Decision Making, Crystal City, VA, invited participant, 2005.



Locating Observing Stations Where It Counts: What do We Have? What are We Missing?  
15<sup>th</sup> Conference on Applied Climatology, American Meteorological Society, Savannah, GA,  
invited panelist, 2005.

Climate Observing Networks. 15<sup>th</sup> Conference on Applied Climatology, American  
Meteorological Society, Savannah, GA, session chair, 2005.

Environmental Education Program, The Peopling of Philadelphia Collaborative, Inc.,  
Cream Ridge, NJ, workshop leader, 2005.

The Essex-Stevens Model: Extending the Model into High School, Stevens Institute of  
Technology, Hoboken, NJ, invited workshop guest and lunchtime speaker, 2005.

Third Climate Prediction Applications Science Workshop, NOAA, Palisades, NY, session  
chair, 2005.

Evaluation of Climate Change Indicators for Environmental Protection Agency, Board of  
Atmospheric Sciences and Climate, National Academies, Washington, DC, panel member,  
2004.

NASA EOS Snow and Ice Products User Workshop, Landover, MD, session chair, 2004.

NOAA Climate Board Long-Range Planning Workshop, Warrenton, VA, invited participant,  
2004.

AASC/NWS/NCDC/RCC Climate Services Partnership Workshop, Silver Spring, MD,  
organizer, 2003.

U.S. Climate Change Science Program Planning Workshop, Washington, DC, invited  
panelist, 2003.

Symposium on Deciphering the Complex Changes in Global Snow and Ice. American  
Association for the Advancement of Science Annual Meeting, Boston, MA, co-organizer,  
2002.

Snow Watch 2002, Silver Spring, MD, co-organizer, 2002.

Climate and Vector Control Workshop, NOAA Office of Global Programs, invited  
participant, 2001.

Intergovernmental Panel on Climate Change Third Assessment Report, Chapter 2: Observed  
Climate Variability and Change, contributing author, 2000.

Eastern Region Meeting of the Geological Society of America, New Brunswick, NJ, session  
chair, 2000.

NOAA Climate and Global Change Panel Meeting, Key Largo, FL, invited participant, 1998.

Atmospheric Model Intercomparison Project II (AMIP II) Diagnostic Subproject: Snow Cover, invited participant, 1998.

Fifth Conference on Polar Meteorology and Oceanography, American Meteorological Society, Dallas, TX, Chair, Program Committee, 1999.

NASA Goddard Institute for Space Studies Workshop on Land Surface Representation in Global Climate Models, New York, NY, invited participant, 1998.

Atmospheric Model Intercomparison Project II (AMIP II) Diagnostic Subproject : Snow Cover, invited participant, 1997.

Atmospheric Model Intercomparison Project (AMIP) Diagnostic Subproject No. 8: Polar Phenomena and Sea Ice, invited participant, 1994–1997.

National Weather Service Snow Measurement Workshop, Boulder, CO, invited participant, 1996.

National Polar-orbiting Operational Environmental Satellite System (NPOESS) climate workshop, College Park, MD, invited participant, 1996.

Global Climate Observing System meeting, Asheville, NC, invited participant and panel member, 1995.

Earth Observation Satellite Data and Information System (EOSDIS) Users Conference, Lansdown, VA, invited participant, 1995.

Environmental Data Report 1993–94, United Nations Environment Programme, invited contributor, 1994.

Fifth Annual Climate Assessment 1993, Climate Analysis Center, National Weather Service, invited contributor, 1994.

Workshop on Human Dimensions of Global Environmental Changes: Links between EOS and Social Science Variables, NASA Goddard Space Flight Center, Greenbelt, MD, invited participant, 1993.

NOAA Earth System and Data Information Management Program Workshop on Cryospheric Data Rescue and Access, Pennsylvania State University, State College, PA, group chair, 1993.

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, invited participant, 1992.

Comprehensive Satellite/*In Situ* Global Climate Data Product Workshop, NOAA/National Environmental Satellite, Data, and Information Service, Camp Springs, MD, invited

participant, 1992.

Host scientists from the Lanzhou Institute of Glaciology and Geocryology, Lanzhou, China for several months, 1990.

Project Space, Ramapo College, Mahwah, NJ, 1987, consultant.

Arctic Environmental Data System Workshop, Boulder, CO, invited participant, 1986.

*Current membership in professional organizations*

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

**Mentoring**

*Post-doctoral supervision*

Kyle Mattingly (co-supervisor), 2019–

Debjani Ghatak (co-supervisor), 2011–2014

Imtiaz Rangwala (co-supervisor), 2011–2013

Gina Henderson, 2010–2011

Suzanne Hartley, 1996–1997

Marilyn G. Hughes, 1995–1997

*Graduate: major professor Ph.D.*

Natalie Teale, Chair, 2020\* (\*anticipated date)

Asher Siebert, Chair, 2015 “Assessing the Viability of Index Insurance as an Adaptation Tool in a Changing Climate Context: Case Study in the West African Sahel”

John Mioduszewski, Chair, 2015 “Attribution of Snow Melt Onset and its Linkages with Variability in the Arctic Cryosphere”

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

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

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

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

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

*Graduate: major professor MS/MA*

Logan Soldo, Chair, 2020\*

Jessica August, Chair, 2019 “Climatological Factors Impacting Summer Air Pollution in the Philadelphia Metropolitan Area”

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

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

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

Sean Helfrich, Chair, 2000 “Snowfall Variability in Eastern North America”

Frank Musunda, Chair, 2000 “Summer Temperature Variability in New Jersey Over the Last Century”

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

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

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

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

*Graduate: supervisory committee member Ph.D.*

Jing Xiao, Reader and Examiner, 2022\*

Saber Basher, Reader and Examiner, 2021\* (at University of Delaware).

Sasha Liedman, Reader and Examiner, 2021\*

Rohi Muthyala, Reader and Examiner, 2020\*

Michael Marston, Reader and Examiner, 2020\* (at Virginia Tech University).

Sadiya Baba, (qualifying exam), 2019

Zachary Suriano, Reader and Examiner, 2018 (at University of Delaware). “Snowfall and Snow ablation within the Great Lakes Basin”

Jennifer Whytlaw, Examiner (qualifying exam), 2017

Alexandra Ramos, Examiner (qualifying exam), 2017

Samiah Moustafa, Reader and Examiner, 2017 “Assessing Greenland ice sheet meltwater losses at the pixel and drainage basin scale”

Daniel Barone, Reader and Examiner, 2016 “Determining Human Dominance Thresholds for Barrier Islands Along the New Jersey Coast”

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”

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

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 21<sup>st</sup> 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 21<sup>st</sup> Century”

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”

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)

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"

*Graduate: supervisory committee member MS/MA*

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

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

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”

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”

Paul Montesano, Reader and Examiner, 2001

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 Snowstorms

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

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”

Greg John, Reader and Examiner, 1996 “An Expansion of AQIAS: An Expert System Using dBase for State 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”

Basil Newmerzhysky, 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 Mosler, 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

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

*Undergraduate honors*

Anushka Srivastava, advisor, 2019–2020\*

Daryl Krasnuk, advisor, 2016–2017

Joshua A. McGrath, advisor, 2003–2004

John P. Krasting, committee member, 2001–2002

Jason Scotti, advisor, 1995–1996

**Rutgers University Activities**

*New Brunswick Campus-wide*

Byrne Seminars: either “From Polar Bears to Palm Trees: New Jersey’s Changing Climate” or “Exploring the Raritan River Basin,” each fall semester: 2008–present.

Rutgers Raritan River Consortium, steering committee, 2016–present.

Rutgers Undergraduate Geographical Society, faculty advisor, 1990–2018.

Attracting Media Coverage of Your Research: A Conversation Among Rutgers Faculty and Communications Professionals, Rutgers Office for Public Engagement Project, New Brunswick, NJ, panel member, 2016.

Campus Strategic Planning Coordinating Committee, member, 2014.

Presentation to visiting out-of-state guidance counselors: 2014.

Rutgers Undergraduate Climate Change Education Workshop, participant, 2013.

Rutgers Climate Initiative Executive Committee, member, 2006–2013.

The Climate Ahead: Climate Change and Extreme Weather Events. Rutgers Climate and Environmental Change Initiative, co-organizer and panel moderator, 2009.

*Mapping New Jersey*, 2009 Rutgers University Press, member editorial board and Environment chapter lead author: 2005–2009.

Rutgers Homeland Security Research Initiative, executive board, 2005–2008.

“Get Inside Your Professor’s Head” panel discussion sponsored by the Livingston Campus Office of Undergraduate Education, invited participant, 2008.

"New Jersey 101": Invited lecture to the Rutgers New Faculty Traveling Seminar, 2004.

*The Encyclopedia of New Jersey*, Rutgers University Press, 2004, member editorial board, 1997–2004.

"New Jersey Climate": Invited lecture to the Rutgers Alumni Association Annual Alumni College, Mohonk Mountain, NY, 2003.

New Brunswick Computer Advisory Committee, member, 2001–2002.

NJ Weather and Climate Network, Rutgers reception for State legislators and guests, War Memorial Auditorium, Trenton, NJ, exhibitor, 2001.

Douglass College Alumni Day, luncheon speaker, 2000.

Advisory Committee on Instructional Computing, member, 1998–1999.

“Technology in the Classroom.” New Brunswick Undergraduate Teaching Symposium, discussion leader, 1998.

“Innovations in instructional technology: Getting the whole department involved”; Lecture Series: Instructional Technology, Faculty Innovators, invited presentation, 1997.

On campus discussion: White House Conference on Climate Change, invited participant, 1997.

Livingston Campus Computing Pilot Project, member, 1995–1996.

Instructional Computing Committee, Livingston Campus, chair, 1995.

New Jersey State Finals, National Geography Bee, moderator, 1991–1993.

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

Appointments and Promotions Committee, member, 2015–present.

Discovery Day, speaker, 2007–2009.

Promotions and Review Committee, member, 2004–2005.

Ad Hoc Shared Appointments Committee, member, 2002.

Computer Advisory Committee, member, 1998–1999.  
Appointments and Promotions Committee, member, 1994–1996.

*School of Environmental and Biological Sciences (formerly: Cook College) and NJ Agricultural Experiment Station*

NJ Sustainable Agriculture class (annual presentation) 2017–present.  
Rutgers Environmental Steward Program, multiple annual presentations at locations including South Brunswick, Hillsborough, Bordentown and Roseland, NJ, 2006–present.  
Presentations to Meteorology Club, multiple occasions, 2005–2015.  
Curriculum Coordinator: Geography, 1993–2010.  
Walton Center for Remote Sensing and Spatial Data Analysis, associate director for climatology, 1995–2005.

*Rutgers College*

Faculty Fellow, 1990–2006.  
Rutgers College Curriculum Committee, member, 1991–2000.

*Graduate School*

Nominating Committee, member, 2017–present.  
Global Environmental Change Program, member, 1998–present.  
Quaternary Studies Program, member, 1990–present.  
Workshop presentation: “The Job Talk,” Jobs in Academe series, 2009.  
GeoSpatial Information Science Program, member, 2005–2007.  
Nominating Committee Subcommittee: Student Appeals, member, 2001–2003.  
Nominating Committee, member, 2001–2003.

*Geography (undergraduate and graduate)*

Graduate faculty, full member, 1989–present.  
Liaison: Earth Systems 450:101 course being taught at Chatham High School, 2013–present.  
Graduate Admissions Committee, member, 1990–1991, 2013–2015  
Graduate Program Executive Committee, member, 2011–2015.  
“Great Raritan Flood Project,” participant, 1999–2000.  
Undergraduate recruitment coordinator, 1989–1990.  
Undergraduate affirmative action coordinator, 1989–1990.

*Atmospheric Science Graduate Program*

Travel fund committee, member, 2012–present.  
Graduate Faculty, founding full member, 2005–present.  
Curriculum committee, member, 2017–2018.  
Membership and nominations committee, member, 2006–2007, chair 2008–2009.  
Graduate admissions committee, member, 2005–2006.

*Rutgers Climate Institute*

Internal Advisory Committee, member, 2013–present.

*Institute of Earth, Ocean and Atmospheric Science*

Faculty Advisory Committee, member, 2015–present.

Henry Rutgers named faculty position search committee, member, 2015–2017.  
Development committee, member, 2013–2014.

#### *Meteorology*

Graduate Faculty, full member, 1989–1999 (program closed).

#### *Center for Environmental Prediction*

Executive board, member, 2004–present.

Center for Environmental Prediction, Department of Environmental Sciences, member, 2004–present.

#### *Environmental Sciences*

Graduate Faculty, full member, 1994–present.

#### *Earth and Planetary Science*

Graduate Faculty, full member, 1991–present.

### **New Jersey State Climatologist Activities**

#### *General activities*

Maintain an active research program related to New Jersey weather and climate.

Collect and archive New Jersey climatic data. Including operating the real-time NJ Weather and Climate Network (<http://njweather.org>) and daily NJ Community Collaborative Rain, Hail and Snow Network (<http://cocorahs.org>).

Through various outreach programs, provide climate education and information to the citizens of New Jersey. Includes giving 300–400 interviews each year to the media and writing a monthly weather/climate narrative published on the state climate website (<http://njclimate.org>) along with special reports (often collaborating on the latter reports with undergraduate interns).

#### *Miscellaneous activities (associated with the state climate office)*

New Jersey Climate Change: NJ State Assembly Environment and Solid Waste Committee, Trenton, NJ, invited testimony, 2018.

Rutgers Day “Ask the State Climatologist” booth, exhibit leader, 2009–present.

NJ Community Collaborative Rain, Hail and Snow Network, co-coordinator (with Mathieu Gerbush), 2008–present.

New Jersey Emergency Preparedness Conference Annual Meeting, Atlantic City, NJ, workshop presenter and exhibitor, 2002–present.

North Jersey Weather Observers meetings, occasional invited speaker, 1985–present.

Mentor interns from Chatham High School senior intern program (to date: four students), 2011–2017.

Encroaching drought: Public hearing, NJ Department of Environmental Protection, Millburn, NJ, invited testimony, 2016.

Climate Change and Agriculture in New Jersey, Rutgers EcoComplex, Bordentown, NJ, panel member, 2015.

Annual Meeting of the American Association of State Climatologists, Cape May, NJ, organize and host, 2015.

“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.

Bridging the Climate Divide: Informing the Response to Hurricane Sandy and Implications for Future Vulnerability Conference, Rutgers Climate Institute, New Brunswick, NJ, invited panelist, 2013.

Interviewed for video on the 200<sup>th</sup> anniversary of the Lambertville–New Hope Bridge, Lambertville Historical Society, 2013.

What Makes NJ’s Weather So Interesting, East Newark Middle School classes, host and presentation, 2013.

Flooding in the Raritan River Region: FEMA Project Dinner and Discussion, New Brunswick, NJ, panelist and presenter, 2012.

North Jersey Transportation Planning Authority Climate Change Vulnerability and Risk Assessment of NJ’s Transportation Infrastructure project, volunteer consultant, 2012.

Risk Assessment Group: Federal Emergency Management Agency Raritan River Basin Project, Rutgers University, member, 2011–2012.

Northeast US: Impacts, Vulnerabilities, and Adaptation Workshop, US Climate Assessment, New York, NY, invited participant, 2011.

Occasional articles on New Jersey weather and climate for New Jersey Flows, publication of the NJ Water Resources Research Institute, Rutgers University, 1998–2011.

Lego League middle school program, volunteer consultant, 2011.

NJAES-4H Climate and Environmental Change Summit, New Brunswick, NJ, session leader, 2009, 2010, 2011.

Developing drought: Public hearing, NJ Department of Environmental Protection, Millburn, NJ (August) and Trenton, NJ (September), invited testimony, 2010.

“Economic Assessment of Climate Change Impacts in New Jersey,” NJ Department of

Environmental Protection, Trenton, NJ, invited participant progress report discussant, 2010.

Using the New Jersey Weather and Climate Network for Monitoring Potentially Hazardous Situations, NJ Office of Emergency Management, NJ State Police Headquarters, West Trenton, NJ, workshop leader, 2010 (held twice).

NJ Clean Water Council Public Hearing: Water Policy and Climate Change, Trenton, NJ, invited testimony, 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.

American Association of State Climatologist program for the preparation and distribution of climate data products and monthly climate reports, grant manager, 2009.

Western Education Extension Research Activity (WERA) workshop on volunteer precipitation measurement programs, Estes Park, CO, participant, 2009.

Chinese Meteorological Administration Delegation (visit to Office of NJ State Climatologist), host, 2009.

“Climate Connections” middle school science challenge (phone interviews, visits to teams, teams visited Rutgers), volunteer consultant, 2008.

“For Inspiration and Recognition of Science and Technology (FIRST) Lego League” teams from NJ middle schools, volunteer consultant for 11 teams, 2008.

Sparta Mountain Day, Sparta, NJ, invited exhibitor, 2008.

NJ State Assembly Coastal New Jersey Evacuation Task Force, Beach Haven, NJ, invited testimony, 2007.

NJ coastal hazards. “Safety Links” community television show. SCAN Learning Center, Eatontown, NJ, feature segment interview, 2007.

Hurricane Evacuation Workshop, NJ State Police Office of Emergency Management, West Trenton, NJ, invited participant, 2007.

New York City Meteorology Network Workshop, City College of New York, New York City, NY, invited participant, 2007.

New Jersey water supply issues: NJ State Senate Environment Committee, Trenton, NJ, invited testimony, 2006.

Developing drought: Public hearing, NJ Department of Environmental Protection, Trenton, NJ, invited testimony, 2005.

Second Annual All-Hazards Preparedness Expo. NJ Department of Transportation. Trenton, NJ, invited participant, 2005.

First Annual All-Hazards Preparedness Expo. NJ Department of Transportation. Trenton, NJ, invited participant, 2004.

Rutgers University Homeland Conference, presentation and invited participant, 2003.

Workshop on New Jersey Fire Weather and Climate Networks in the Pine Barrens. NJ Forest Fire Service and USDA Forest Service, Trenton, NJ, invited participant, 2003.

Ongoing drought, NJ State Assembly Environment and Solid Waste Committee, invited testimony, 2002.

Transportation Summit, New Jersey Quality Initiative, New Jersey Department of Transportation, invited participant, 2002.

Status of New Jersey's Water and Ecological Resources, With Drought Update. NJ State House, invited participant, 2002.

Forestry Symposium, NJ Agricultural Experiment Station, invited participant, 2002.

Northeast Integrated Climate Assessment Meeting, University of New Hampshire, Durham, NH, invited participant, 2001.

Northeast State Climatologists Conference, Northeast Regional Climate Center, Ithaca, NY, invited participant, 1999.

### **Public Service**

The Nature Conservancy (New Jersey chapter), Trustee, 2013–present.

Great Conversationalists, Morris (County) Arts (fund raiser), invited participant, 2013 and 2016.

Boy Scout Troop 489, Millstone/Hillsborough, NJ, Scoutmaster, 1999–2003, Assistant Scoutmaster, 2003–2011.

Boy Scout Troop 89, Hillsborough, NJ, Assistant Scoutmaster, 1996–1999.

North Jersey Weather Observers, president, 1986–1987.

Association of American Weather Observers, Board of Directors, 1985–1986.