

CURRICULUM VITAE OF JUSTIN T. SCHOOF

Updated June 2019

I. PROFESSIONAL AFFILIATION AND CONTACT INFORMATION

Professor and Chair
Department of Geography and Environmental Resources
Southern Illinois University
Carbondale, IL 62901
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II. EDUCATION

- Ph.D. Indiana University, Bloomington, IN, USA, 2004
Atmospheric Science Program, Department of Geography
Dissertation title: *Generation of regional climate change scenarios using general circulation models and empirical downscaling*
- M.Sc. Indiana University, Bloomington, IN, USA, 1999
Atmospheric Science Program, Department of Geography
Thesis title: *Synoptic circulation classification and downscaling for the Midwestern United States*
- B.A. Indiana University, Bloomington, IN, USA, 1997
Geography/Mathematics (double major)

III. PROFESSIONAL EXPERIENCE

- 2015- Professor, Department of Geography and Environmental Resources, Southern Illinois University, Carbondale, IL, USA
- 2012- Chair, Department of Geography and Environmental Resources, Southern Illinois University, Carbondale, IL, USA
- 2016 Interim Director, Environmental Resources and Policy Program, Southern Illinois University, Carbondale, IL, USA
- 2011-15 Associate Professor, Department of Geography and Environmental Resources, Southern Illinois University, Carbondale, IL, USA
- 2006-11 Assistant Professor, Department of Geography and Environmental Resources, Southern Illinois University, Carbondale, IL, USA
- 2005 Postdoctoral Research Associate, Center for Ocean-Atmospheric Prediction Studies, Florida State University, Tallahassee, FL, USA
- 2004-05 Postdoctoral Fellow, Department of Geography, Indiana University, Bloomington, Indiana, USA
- 2003-04 Research Assistant, Department of Geography, Indiana University, Bloomington, Indiana, USA
- 2003 Instructor (2002-2003 Spring Semester), Department of Geography, Indiana University, Bloomington, Indiana, USA
- 2000-02 Research Assistant, Department of Geography, Indiana University, Bloomington, Indiana, USA

- 2002 Instructor (2002-2003 Fall Semester), Department of Geography, Indiana University – Purdue University at Indianapolis, Indianapolis, Indiana, USA
- 1999 Associate Instructor (1999-2000 Fall Semester), Department of Geography, Indiana University, Bloomington, Indiana, USA
- 1997-99 Research Assistant, Department of Geography, Indiana University, Bloomington, Indiana, USA

IV. RESEARCH AND CREATIVE ACTIVITY

A. INTERESTS

- Regional climate downscaling
- Climate extremes
- Synoptic climatology
- Statistical climatology
- Applied climatology

B. CURRENT FUNDED PROJECTS (see IV D)

C. GRANTS APPLIED FOR (pending review or not awarded) (PI or co-PI)

- 2019 CNH2-L: Groundwater sustainability and decision making in a changing climate: Coupled hydrologic and socioeconomic dynamics in irrigated agricultural landscapes (NSF), co-PI, in review.
- 2019 NRT-HDR: Building the Big Data workforce to understand the changing global environment (NSF), co-PI, in review.
- 2018 Social media footprints of public perception on energy issues and their policy implications (NSF), senior personnel. Not funded.
- 2018 CNH-S: Groundwater sustainability in a changing climate: Coupled socioeconomics and hydrologic dynamics in the Northern High Plains (NSF), co-PI. Not funded.
- 2017 High spatial resolution mapping of suitability for specific crops in the United States under climate change (USDA), co-PI. Not funded.
- 2017 Collaborative Research: Remote and local forcing of oppressive heat and consequent human health impacts in the central United States (NSF). co-PI. Not funded.
- 2016 High spatial resolution mapping of suitability for specific crops in the United States under climate change (NSF). Funded participant. Not funded.
- 2013 Reconnecting floodplains for multiple benefits in a non-stationary world (NSF). co-

- PI. Not funded.
- 2012 Collaborative Research: Physical drivers of equivalent temperature and human heat stress (NSF). PI. Not funded.
- 2012 Historical and projected impacts of climate change on West Nile Virus in the United States (NIH). PI. Not funded.
- 2012 Windmill-driven autothermal aerobic treatment for pathogens (Bill and Melinda Gates Foundation), co-PI. Not funded.
- 2011 *IGERT: Interdisciplinary, team-based graduate training and research in energy systems for the future* (NSF). co-PI. Not funded.
- 2009 Provisioning of ecosystem services from agricultural watersheds under climate change and policy scenarios (USDA CSREES). co-PI. Not funded.
- 2009 Health Consequences of Regional Heat Waves Under Climate Change, Centers for Disease Control and Prevention (CDC). co-PI. Not funded.
- 2008 Climate Change, Hydrology, and Landscapes of America's Heartland: A Multi-scale Natural-Human System. (NSF). co-PI. Not funded.
- 2008 Downscaled Near-Surface Temperature and Humidity Projections for the Eastern USA. (NSF). PI. Not funded.
- 2008 Modeling the Interactions Among 21st Century Climate, Land Use, and Water Quantity and Quality in Representative U.S. Watersheds. (EPA). co-PI. Not funded.
- 2006 *Development of a Laboratory Exercise Manual for Instruction of Introductory Meteorology*, Excellence through Commitment Undergraduate Teaching Enhancement Award, SOUTHERN ILLINOIS UNIVERSITY CARBONDALE. Not funded.

D. GRANTS RECEIVED

- 2018 River Region Master Teaching Fellowships in Environmental Sustainability, National Science Foundation Master Teaching Fellowships (MTF), non-PI personnel, \$2,196,759.
- 2018 Building Big Data Research & Teaching Synergy at SIUC, Sigma Xi, Science, Math, and Engineering Education (SMEE) grant, co-PI, \$2000.
- 2013 Collaborative Research: Physical Drivers of Equivalent Temperature Variability, National Science Foundation, Geography and Spatial Science, PI, \$158,254.

- 2012 Assessing Climate Change Education on the SIUC Campus, SIU Carbondale Green Fund.
- 2010 Collaborative Research: Climate Change Impacts on Regional Wind Climates, National Science Foundation, Geography and Spatial Science, PI, \$57,146.
- 2010 Climate Change, Hydrology, and Landscapes of America's Heartland: A Multi-scale Natural-Human System, National Science Foundation, Dynamics of Coupled Natural and Human Systems, co-PI, \$1,430,000.
- 2009 Track 1: Southern Illinois Undergraduate Recruitment and Retention in Geoscience Education (SURRGE), National Science Foundation, Opportunities for Enhancing Diversity in the Geosciences, co-PI, \$186,439.
- 2008 Development and Delivery of Thematically Integrated Courses in Meteorology and Climatology, Excellence Through Commitment Undergraduate Teaching Enhancement Award, SIU Carbondale, 1 month salary.
- 2008 Emissions Pathways and Projections of Extreme Temperatures in the Midwestern USA, ORDA Seed Grant, SIU Carbondale, \$8,598 + ½ month salary
- 2007 Collaborative Research: Development of 21st Century Precipitation Scenarios Using Probabilistic Downscaling Techniques, National Science Foundation, Geography and Regional Science, PI, \$95,061.
- 2006 A Comparison of Dynamically and Statistically Downscaled GCM Ensemble Hindcasts for the Southeastern USA, subcontract from Florida State University, \$24,000.

E. HONORS AND AWARDS

- 2019 Honorary Environmental Ambassador Award, SIU Sustainability Council
- 2012-16 Editor, Atmospheric Sciences, *Elsevier Reference Modules on Science Direct*.
- 2011 *John Russell Mather Paper of the Year Award, Climate Specialty Group, Association of American Geographers*, awarded for Schoof JT, Pryor SC, Surprenant J. 2010. Development of daily precipitation projections for the United States based on probabilistic downscaling. *Journal of Geophysical Research*, 115, D13106, doi:10.1029/2009JD013030.
- 2003-04 *Indiana University College of Arts and Sciences Dissertation Year Research Fellowship*. \$13,500
- 2003 *Indiana University James H. Coon Science Prize*. Awarded to a student who shows promise in one of the sciences). \$1,500
- 2003 *Indiana University Graduate Student Travel Support Grant*. Indiana University College of Arts and Sciences. Awarded to attend American Meteorological Society 2004 Annual Meeting, Seattle, WA, 11-15 January, 2004. \$300

- 1999-02 *Indiana University Department of Geography Chairman's Graduate Student Recognition Award.* Awarded for outstanding academic performance.
- 2001 *Indiana University Department of Geography Departmental Graduate Fellowship Award.* Awarded for academic excellence. \$1,500
- 2000 *Indiana University Esther L. Kinsley Master's Thesis Award.* Awarded for outstanding theses at Indiana University. \$500
- 2000 *American Meteorological Society Global Change Travel Scholarship.* Awarded to attend the American Meteorological Society 81st Annual Meeting, Albuquerque, NM, 14-19 January, 2000. Approximately \$500.
- 1999 *Indiana University Graduate Student Travel Support Grant.* Indiana University College of Arts and Sciences. Awarded to attend American Geophysical Union 1999 Spring Meeting, Boston, MA, 1-4 June, 1999. \$200
- 1999 *Indiana University Department of Geography Steven S. Visher Award for Outstanding Paper in Climatology.* \$500

F. PRESENTATIONS AND POSTERS AT PROFESSIONAL MEETINGS AND WORKSHOPS (presenter underlined)

76. Li R, Crowe J, Leifer D, Schoof J. Public perceptions on energy: A comparison between household surveys and social media data mining. Association of American Geographers Annual Meeting, Washington, DC, April 2019.
75. Schoof JT. The United States "warming hole": an update to 2016 and application to equivalent temperature. American Meteorological Society Annual Meeting, Austin, TX, January 2018.
74. Leonard J, Schoof JT, Ford T. Quantifying the spatial and temporal extent of the Eastern United States "warming hole". American Meteorological Society Annual Meeting, Austin, TX, January 2018.
73. Schoof JT, Ford T, Pryor SC. Projected regional changes in the characteristics of dry and moist heat waves in the United States derived from downscaled CMIP5 models. American Geophysical Union Fall Meeting, New Orleans, LA, December 2017.
72. Schoof JT, Leonard J. Is there a warming hole in eastern US equivalent temperature? American Meteorological Society 23rd Conference on Applied Climatology, Asheville, NC, June 2017.
71. Schoof JT, Ford T, Pryor SC. High resolution projections of 21st century eastern United States heat waves. Association of American Geographers Annual Meeting, Boston, MA, April 2017.
70. Schoof JT, Ford T, Pryor SC. Recent changes in United States heat waves derived from multiple reanalyses. American Geophysical Union Fall Meeting, San Francisco, CA, December 2016.

69. Gomez-Jacobo ML, Schoof JT, Ford T. Assessing equivalent temperature trends in the eastern United States. American Geophysical Union Fall Meeting, San Francisco, CA, December 2016.
68. Lant C, Stoebner T, Schoof J, Crabb B. The effect of climate change on rural land cover patterns in the central United States. Utah Geographic Information Council Conference. Bryce Canyon, UT, May 2016
67. Schoof JT, Ford T. Coupling between eastern United States warm season extreme temperatures and soil moisture in high resolution land surface data, Association of American Geographers Annual Meeting, San Francisco, CA, March 2016.
66. Ford T, Schoof JT. The role of soil moisture in the onset and persistence of equivalent temperature heat wave events. Association of American Geographers Annual Meeting, San Francisco, CA, March 2016.
65. Schoof JT. Historical changes in the moisture content of heat waves in the United States, American Meteorological Society, New Orleans, LA, January 2016.
64. Lukancic K, Schoof JT. Sensitivity of strong extratropical cyclones to large-scale climate variability in the United States, American Meteorological Society, New Orleans, LA, January 2016.
63. Schoof JT. A new perspective on United States heat waves. American Geophysical Union, Fall Meeting, San Francisco, CA, December 2015 (poster)
62. McLeran K, Schoof JT, Lefticariu L, Therrell M. Delta 18-O and Delta 13-C analysis in tree rings of *Pterocarpus Angolensis* growing in Zimbabwe. American Geophysical Union, Fall Meeting, San Francisco, CA, December 2015 (poster)
61. Bhattacharai M, Secchi S, Schoof J. An analysis of the climate change mitigation potential through soil organic carbon sequestration in a corn belt watershed. American Geophysical Union, Fall Meeting, San Francisco, CA, December 2015.
60. Schoof JT. High-resolution projections of daily near-surface air temperature and extremes for the contiguous United States. Association of American Geographers, Annual Meeting, Chicago, IL, April 2015. (poster)
59. Teshager A, Secchi S, Schoof J. Assessment of impacts of agricultural scenarios and climate change on water quantity and quality of a watershed in central US. Association of American Geographers, Annual Meeting, Chicago, IL, April 2015.
58. Bhattacharai MD, Secchi S, Schoof J. Mitigation potential of climate change through soil organic carbon sequestration in a corn belt watershed Association of American Geographers, Annual Meeting, Chicago, IL, April 2015.

57. Bhattarai MD, Secchi S, Schoof J. Mitigation potential of climate change through soil organic carbon sequestration in a corn belt watershed. Seventh International Conference on Climate Change: Impacts and Responses, Vancouver, Canada, April, 2015.
56. Secchi S, Perez-Lapena B, Teshager AD, Bhattarai M, Schoof JT. Understanding the links between humans, climate change, water and carbon in a Corn Belt Watershed. American Geophysical Union, San Francisco, CA, December 2014, **invited**.
55. Schoof JT. High resolution projections of 21st century daily precipitation for the contiguous USA. American Geophysical Union, San Francisco, CA, December 2014.
54. Feng G., Wang G.X., Schoof, JT. Monitoring drought intensity in Illinois with a combined index. Association of American Geographers, Annual Meeting, Tampa, FL, April 2014.
53. Feng G., Wang G.X., Schoof, JT. Monitoring drought intensity in Illinois with a combined index. American Society for Photogrammetry and Remote Sensing, Annual Meeting, Louisville, KY, March 2014.
52. Schoof J.T., Heern Z.. Variability and trends in average and extreme near-surface equivalent temperature in the Eastern USA. American Meteorological Society, Annual Meeting, Atlanta, February 2014.
51. Schoof J.T., Pryor S.C., and Barthelmie R.J.. Observed and AOGCM simulated relationships between US winds and large scale modes of climate variability. American Geophysical Union, Fall Meeting, San Francisco, December 2013.
50. Schoof J.T. Multivariate downscaling of CMIP5 projections for the central United States: Overview of results and assessment of value added. Association of American Geographers Annual Meeting, Los Angeles, April 2013.
49. Teshager A., Secchi S., Misgna G., and Schoof J. Predicting climate change and policy influences on future agricultural landscapes of the American Heartland. Association of American Geographers Annual Meeting, Los Angeles, April 2013.
48. Pryor S.C., Barthelmie R.J. and J. Schoof. Changes in extreme and intense wind speeds over the contiguous USA. NCDC Workshop, Asheville, Jan 2012.
47. Pryor S.C., Barthelmie R.J. and J. Schoof. Wind climates in the NARCCAP model suite, American Geophysical Union, San Francisco, Dec 2011.

46. Miller G, Schoof JT, and Therrell M. Developing curriculum to help students explore the Geosciences' cultural relevance. American Geophysical Union, December 2011, San Francisco. (poster)
45. Schoof JT, Pryor SC, and Surprenant J. Development of daily precipitation projections for the United States based on probabilistic downscaling. Association of American Geographers, April 2011, Seattle, WA. Climate Specialty Group John Russell Mather Paper of the Year Award presentation.
44. Schoof JT and Chakraborty S. Understanding historical and projected changes in human heat stress in the United States. Association of American Geographers, April 2011, Seattle, WA. (poster)
43. Schoof JT. Stochastic weather generators: Applications, modeling approaches, and model evaluation. American Society of Agronomy, November 2010, Long Beach, CA, **invited**.
42. Schoof JT. Projections of human heat stress for the Midwestern USA. Workshop on Climate Change Impacts, Vulnerability, and Adaptability in the Midwest USA, Indiana University, October 2010.
41. Pryor SC, Barthelmie RJ, Schoof JT, Clausen NE, Drews M, E. Kjellstrom. Will global climate change impact extreme and intense wind speeds? World Renewable Energy Congress XI, 25-30 September 2010, Abu Dhabi, UAE.
40. Pryor SC, Barthelmie RJ, Schoof JT, Clausen NE, Drews M. Changes in extreme and intense wind speeds in Northern Europe. European Wind Energy Conference. Warsaw, Poland, 2010.
39. Pryor SC, Barthelmie RJ, Schoof JT, Clausen NE, Kjellstrom E, Drews M. Intense and extreme wind speeds over the Nordic countries. Future Climate and Renewable Energy – Impacts, Risks and Adaptation. Oslo, Norway, 2010.
38. Pryor SC, Barthelmie RJ, Schoof JT, Clausen NE, Drews M. Quantifying possible changes in extreme and intense wind speeds. American Wind Energy Conference, Dallas, TX, 2010.
37. Ratnapradipa D, Schoof JT, Ruffing A. Environmental health impacts and lessons learned from a regional wind event. National Environmental Health Association 2010 Annual Educational Conference & Exhibition. Albuquerque, NM, June 2010.
36. Kaini P, Nicklow JW, Schoof JT. Impact of climate change projections and best management practices on river flows and sediment load. World Environment & Water Resources Congress 2010, Providence, RI, May 2010.

35. Ratnapradipa D, Schoof JT, Middleton W. Environmental health perspectives on climate change. 2009 National Environmental Public Health Conference, Atlanta, GA, October 2009.
34. Schoof JT, Pryor SC, Surprenant JL. Probabilistic downscaling of 21st century daily precipitation occurrence and intensity in the United States. American Geophysical Union Joint Assembly, Toronto, Ontario, Canada, May 2009.
33. Schoof JT. Contributions of temperature and humidity to trends in apparent temperature in the Midwestern USA. West Lakes Meeting of the Association of American Geographers, Bloomington, IN, November 2008.
32. Schoof JT, Pryor SC. On the proper order of Markov chain for precipitation occurrence, 88th Annual Meeting of the American Meteorological Society, New Orleans, LA, January 2008.
31. Schoof JT. Assessing the proper order of Markov chain for simulation of daily precipitation occurrence in the Midwestern USA. West Lakes Meeting of the Association of American Geographers, Champaign-Urbana, IL, November 2007.
30. Schoof JT, Robeson SM. Historical and projected changes in the length of the frost free season in the Midwestern United States, 30th Applied Geography Conference, Indianapolis, IN, October 2007.
29. Schoof JT. Statistically downscaled temperature projections for the Midwestern USA. Workshop on Climate Variability, Predictability & Change in the Midwest, Indiana University, October 2007.
28. Schoof JT. Teleconnections and circulation patterns in the Midwestern USA. Observations vs. GCMs. Workshop on Climate Variability, Predictability & Change in the Midwest, Indiana University, October, 2007.
27. Pryor SC, Barthelmie RJ, Schoof JT. Developing robust projections of wind energy resources under climate change, European Conference on Impacts of Climate Change on Renewable Energy Sources, Reykjavik, Iceland, June, 2006.
26. Schoof JT, Shin DW, LaRow T, Cocke S. Assessment of spatial and temporal skill associated with dynamically and statistically downscaled seasonal temperature forecasts in the Southeastern USA, American Geophysical Union 2006 Joint Assembly, Baltimore, May, 2006.
25. Pryor S, Barthelmie R, Schoof J. Projections of near-surface winds under climate change scenarios for use in the wind energy industry, European Geosciences Union, General Assembly 2006, Vienna, Austria, April, 2006.

24. Schoof JT, Arguez A, Brolley J, O'Brien JJ. A new weather generator based on spectral properties of surface air temperature. *American Meteorological Society 18th Conference on Probability and Statistics in the Atmospheric Sciences*, Atlanta, GA, February, 2006.
23. Bellow JG, Shin D-W, Schoof JT, Jones J, O'Brien JJ. Contribution of temperature, precipitation, and solar radiation from dynamically downscaled global climate model output to predicting peanut yields and phenology in the SE USA. American Society of Agronomy, Southern Branch Meeting, Orlando, February, 2006.
22. Pryor SC, Barthelmie RJ, Schoof JT, Kjellström E, Roeckner E. Developing wind climate projections. *Intergovernmental Panel on Climate Change Workshop*, Honolulu, March 2005.
21. Pryor SC, Barthelmie RJ, Schoof JT. How coherent is inter-annual variability of wind indices across Europe and what are the implications for large scale penetration by wind energy of electricity markets? *European Wind Energy Conference*, London, November 2004.
20. Pryor SC, Barthelmie RJ, Schoof JT. Wind energy prognoses for the Baltic region. *4th Study Conference on BALTEX (Baltic Sea Experiment)*. Gudhjem, Bornholm, Denmark, May 2004.
19. Pryor SC, Barthelmie RJ, Schoof JT. Historical and prognostic changes in 'a normal wind year': A case study from the Baltic. *European Wind Energy Association Special Topic Conference: The Science of Making Torque From Wind*. Delft University of Technology, The Netherlands, April, 2004.
18. Schoof JT, Pryor SC. An evaluation of two GCMs: North American teleconnections and synoptic phenomena. *15th AMS Symposium on Global Change and Climate Variations*, Seattle, WA, January, 2004.
17. Pryor SC, Schoof JT, Barthelmie RJ. Near-surface flow regimes: Recent changes and tools for prognoses. *15th AMS Symposium on Global Change and Climate Variations*, Seattle, WA, January, 2004 (poster).
16. Pryor SC, Barthelmie RJ, Schoof JT. Observed and predicted flow variability over the Baltic Region: Implications of climate change for wind energy viability. *AGU/EGS Joint Assembly*, Nice, France, April 2003.
15. Barthelmie RJ, Pryor SC, Schoof JT. Evidence of trends in near-surface wind speeds over the Baltic. *Offshore Wind Energy in the Mediterranean and other European Seas (OWEMES)*, 2003, Sicily, April 2003.

14. Schoof JT, Robeson SM. Seasonal and spatial variability of serial and cross-correlation matrices used by stochastic weather generators. *American Meteorological Society 13th Conference on Applied Climatology*, Portland, OR, May 2002.
13. Pryor S, Barthelmie R, Carreiro M, Davis M, Hartley A, Jensen B, Oliphant A, Randolph J, Schoof J. Forest canopy uptake of atmospheric nitrogen at a Midwestern US mixed hardwood site and possible implications for carbon storage. *American Geophysical Union*, San Francisco, CA. December 2001.
12. Pryor SC, Barthelmie R, Carreiro M, Davis M, Hartley A, Jensen B, Oliphant A, Randolph J, Schoof J. Nitrogen deposition to a mid-Latitude deciduous forest and ecosystem response. *2nd International Nitrogen Conference*. Washington, D.C., October 2001
11. Schoof JT A comparison of two synoptic circulation classifications for the Midwestern United States. *Annual Meeting of the Association of American Geographers*, New York City, NY, March 2001.
10. Pryor SC, Barthelmie RJ, Davis ML, Schoof JT, Hirzy KC, Hartley A, Carreiro M, Jensen B. Nitrogen deposition to and cycling in a forest ecosystem. *Annual Meeting of the Association of American Geographers*, New York City, NY, March 2001.
9. Pryor SC, Barthelmie RJ, Schoof J, Erickson D. Modeling heterogeneous chemistry on sea spray: implications for nitrogen deposition. *American Association for Aerosol Research Annual Conference*, St. Louis, MO, November 2000.
8. Pryor SC, Barthelmie RJ, Jensen B, Hirzy K, Schoof J, Davis M. An investigation of the role of particles in observations of the bidirectionality of ammonia fluxes. *American Association for Aerosol Research Annual Conference*, St. Louis, MO, November 2000 (poster).
7. Pryor SC, Barthelmie RJ, Schoof J, Erickson D. Modeling heterogeneous chemistry in sea salt droplets. *European Aerosol Conference*, Dublin, Ireland, September 2000. (invited)
6. Pryor SC, Barthelmie RJ, Schoof JT, Sorensen LL, Erickson III DJ. Implications of heterogeneous chemistry for nitrogen deposition to marine ecosystems: Observations and modeling, *Sixth International Conference on Air-Surface Exchange of Gases and Particles*, Edinburgh, UK, July 2000.
5. Schoof JT, Pryor SC. Synoptic circulation classification and downscaling for the Midwestern United States, *American Meteorological Society 15th Conference on Probability and Statistics in the Atmospheric Sciences*, Asheville, NC, May 2000.

4. Schoof JT, Pryor SC. Synoptic circulation classification and statistical downscaling for the midwestern United States, *American Geophysical Union Spring Meeting*, Boston, MA, June 1999 (poster).
3. Grimmond S, Zutter H, Potter S, Schoof J, Souch C. Evaluation and application of automated methods for measuring sky view factors in urban areas, *International Conference on Urban Climate*, 1999, Sydney Australia, November 1999. (poster).
2. Grimmond CSB, Robeson SM, Schoof J. Variability in below-canopy climatic conditions during the growing season within an eastern North American deciduous forest. *International Conference on Biometeorology (ICB)*, Sydney, Australia, November 1999.
1. Robeson SM, Grimmond CSB, Schoof J. Comparison of open-site and below-canopy climatic conditions within an eastern North American deciduous forest. *American Meteorological Society 23rd Conference on Agricultural and Forest Meteorology*, Albuquerque, NM, November 1998.

V. PUBLICATIONS AND CREATIVE WORKS

A. BOOKS

None at this time.

B. ARTICLES IN PROFESSIONAL JOURNALS

Burchfield E, Matthews-Pennanen N, Schoof JT, Lant C. Projected changes in yields of rainfed maize, soybeans, winter wheat and cotton in the central United States under climate and technological change. *Climatic Change*, in review.

Li R, Crowe J, Leifer D, Zou L, Schoof J. Social media for understanding social perception of energy: challenges and opportunities. *Energy Research and Social Science*, accepted.

Schoof JT, Pryor SC, Ford TW. Projected changes in United States regional extreme heat days derived from bivariate quantile mapping of CMIP5 simulations. *Journal of Geophysical Research – Atmospheres*, accepted.

51. Pryor SC, Schoof JT. 2019. A hierarchical analysis of the impact of methodological decisions on statistical downscaling of daily precipitation and air temperatures. *International Journal of Climatology*, 39, 2880-2900.

50. Bouska K, Whitley G, Lant C, Schoof J. 2019. Drivers and uncertainties of forecasted range shifts for warm-water fishes under coupled climate and land cover change. *Canadian Journal of Fisheries and Aquatic Sciences*, 76, 415-425.

49. Rijal S, Wang G, Woodford P, Hutchinson JMS, Howard H, Hutchinson S, Hutchinson JMS, Schoof J, Oyana TJ, Li R, Park L. 2018. Detection of gullies in Fort Riley

- Military Installation using LiDAR derived high resolution DEM. *Journal of Terramechanics*, 77, 15-22.
48. Pryor SC, Sullivan RC, Schoof JT. 2017. Modeling the contributions of global air temperature, synoptic-scale phenomena and soil moisture to near-surface static energy variability over the eastern USA. *Atmospheric Chemistry and Physics*, 17, 14457-14471, doi:10.5194/acp-17-14457-2017.
47. Schoof JT, Ford TW, Pryor SC. 2017. Recent changes in heat wave characteristics derived from multiple reanalyses. *Journal of Applied Meteorology and Climatology*, 56, 2621-2636.
46. Wodika A, Schoof J. 2017. Assessing climate change education on a Midwestern college campus. *Applied Environmental Education and Communication*, 1-14, doi:10.1080/1533015X.2017.1348268.
45. Rijal S, Wang G, Woodford PB, Howard HR, Schoof J, Oyana TJ, Park LO, Li R. 2017. Comparison of military and non-military land condition using an image derived soil erosion cover factor. *Journal of Soil and Water Conservation*, 72, 425-437.
44. Teshager AD, Gassman PW, Secchi S, Schoof JT. 2017 Simulation of targeted pollutant mitigation strategies to reduce nitrate and sediment hotspots in an agricultural watershed. *Science of the Total Environment*, 607-608, 1188-1200, doi:10.1016/j.scitotenv.2017.07.048.
43. Ford T, Schoof J. 2017. Characterizing extreme and oppressive heat waves in Illinois. *Journal of Geophysical Research: Atmospheres* 122, 682-698. doi:10:1002/2016JD05721.
42. Bhattarai M, Secchi S, Schoof J. 2017. Projecting corn and soybean yields under climate change in a Corn Belt watershed. *Agricultural Systems*, 152, 90-99, doi:10.1016/j.agsy.2016.12.013.
41. Bhattarai MD, Secchi S, Schoof J. 2017. An analysis of the climate change mitigation potential through soil organic carbon sequestration in a Corn Belt watershed. *Environmental Management*, doi:10.1007/s00267-016-0771-6.
40. Ford T, Schoof J. 2016. Oppressive heat events in Illinois related to antecedent wet soils. *Journal of Hydrometeorology*, 17, 2713-2726, doi:10.1175/JHM-D-16-0075.1.
39. Stoebner T, Lant CL, Schoof JT, Crabb B. 2016. The effect of climate change on rural land cover patterns in the central United States. *Climatic Change*, 138, 585-602, doi:10.1007/s10584-016-1738-6.

38. Teshager AD, Gassman PW, Schoof JT, Secchi S. 2016. Assessment of impacts of agricultural and climate change scenarios on watershed ecosystem services. *Hydrology and Earth System Science*, 20, 3325-3342, doi:10.5194/hess-20-3325-2016.
37. Pryor SC, Schoof JT. 2016. Evaluation of near-surface temperature, humidity, and equivalent temperature from regional climate models applied in type-II downscaling. *Journal of Geophysical Research:Atmospheres*, 121, 3326-3338.
36. Schoof JT, Robeson SM. 2016. Projecting changes in regional temperature and precipitation extremes in the United States. *Weather and Climate Extremes* (invited), 11, 28-40, doi:10.1016/j.wace.2015.09.004.
35. Teshager AD, Gassman PW, Secchi S, Schoof JT, Misgna G. 2016. Modeling agricultural watersheds with the Soil and Water Assessment Tool (SWAT): Calibration and validation with a novel procedure for spatially explicit HRUs. *Environmental Management*, 57, 894-911, doi:10.1007/s00267-015-0636-4.
34. Schoof JT. 2015. High resolution projections of 21st century daily precipitation for the contiguous USA. *Journal of Geophysical Research - Atmospheres*, doi:10.1002/2014JD022376.
33. Schoof JT, Heern ZA, Therrell MD, Remo JWF. 2015. Assessing trends in lower tropospheric heat content in the Central USA using equivalent temperature. *International Journal of Climatology*, doi: 101002/joc.4175.
32. Schoof JT, Pryor SC. 2014. Assessing the fidelity of AOGCM-simulated relationships between large-scale modes of climate variability and wind speeds. *Journal of Geophysical Research - Atmospheres*, **119**, doi:10.1002/2014JD021601.
31. Romano AJ, Therrell M, Schoof JT, Gibson DJ. 2013. Response of non-native invasive plants to large scale wind damage. *Natural Areas Journal*, **33**, 307-315.
30. Schoof JT. 2013. Statistical downscaling in climatology (invited review article). *Geography Compass*, **7**, 249-265.
29. Fisher SM, Schoof JT, Lant CL, Therrell MD. 2013. The effects of geographical distribution on the reliability of wind energy. *Applied Geography*, **40**, 83-89.
28. Pryor SC, Barthelmie RJ, Schoof JT. 2013. Downscaled projections of climate risks for the Midwestern USA. *Climate Research*, **56**, 61-79.
27. Pryor SC, Barthelmie RJ, Schoof JT. 2012. Past and future wind climates over the contiguous USA based on the North American Regional Climate Change Assessment Program model suite. *Journal of Geophysical Research – Atmospheres*, **117**, D19119, doi:10.1029/2012JD014779.

26. Schoof JT. 2012. Scale issues in the development of future precipitation scenarios. *Journal of Contemporary Water Research and Education*, 147, 8-16.
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24. Pryor SC, Schoof JT. 2010. Importance of the SRES in projections of climate change impacts on near-surface wind regimes. *Meteorologische Zeitschrift*, 19, 267-274.
23. Schoof JT, Pryor SC, Surprenant J. 2010. Development of daily precipitation projections for the United States based on probabilistic downscaling. *Journal of Geophysical Research - Atmospheres*, 115, D13106, doi:10.1029/2009JD013030.
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21. Schoof JT, Shin DW, Cocke S, LaRow TE, Lim Y-K, O'Brien JJ. 2009. Dynamically and statistically downscaled seasonal temperature and precipitation hindcast ensembles for the southeastern USA. *International Journal of Climatology*, **29**, 243-257.
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19. Schoof JT, Pryor SC. 2008. On the proper order of Markov chain model for precipitation occurrence in the contiguous United States. *Journal of Applied Meteorology and Climatology*, **47**, 2477-2486.
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13. Pryor SC, Schoof JT, Barthelmie RJ. 2006. Winds of change? Projections of near surface winds under climate change scenarios, *Geophysical Research Letters* **33**, L11702, doi:10.1029/2006GL02600.
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11. Schoof JT, Pryor SC. 2006. An evaluation of two GCMs: Simulation of North American teleconnection indices and synoptic phenomena. *International Journal of Climatology* **26**, 267-282.
10. Schoof JT, Arguez A, Brolley J, O'Brien JJ. 2005. A new weather generator based on spectral properties of minimum surface air temperature and diurnal temperature range. *Agricultural and Forest Meteorology* **135**, 241-251.
9. Pryor SC, Schoof JT, Barthelmie RJ. 2005. Empirical downscaling of wind speed probability distributions. *Journal of Geophysical Research – Atmospheres* **110**: D19110.
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6. Schoof JT, Pryor SC. 2003. Evaluation of the NCEP/NCAR reanalysis in terms of synoptic scale phenomena: A case study from the Midwestern USA. *International Journal of Climatology* **23**: 1725-1741.
5. Schoof JT, Robeson SM. 2003. Seasonal and spatial variations of cross-correlation matrices used by stochastic weather generators. *Climate Research* **24**, 95-102.
4. Schoof JT, Pryor SC. 2001. Downscaling temperature and precipitation: a comparison of regression-based methods and artificial neural networks. *International Journal of Climatology* **21**, 773-790.
3. Pryor SC, Barthelmie RJ, Carreiro M, Davis ML, Hartley A, Jensen B, Oliphant A, Randolph JC, Schoof JT. 2001. Nitrogen deposition to and cycling in a deciduous forest. In *Optimizing Nitrogen Management in Food and Energy Production and*

Environmental Protection: *Proceedings of the 2nd International Nitrogen Conference on Science and Policy. The Scientific World* **1**(S2), 245-254.

2. Pryor SC, Barthelmie RJ, Schoof JT, Sorensen LL, Erickson DJ. 2001. Implications of heterogeneous chemistry of nitric acid for nitrogen deposition to marine ecosystems: Observations and modeling. *Water, Air, and Soil Pollution: Focus* **1**: 99-107.
1. Grimmond CSB, Robeson SM, Schoof JT. 2000. Spatial variability of micro-climatic conditions within a mid-latitude deciduous forest. *Climate Research* **15**, 137-149.

C. CONFERENCE PROCEEDINGS

Pryor SC, Barthelmie RJ, Schoof JT, Clausen NE, Drews M. Quantifying possible changes in extreme and intense wind speeds. *Proceedings of the American Wind Energy Association*. 2010.

Pryor SC, Barthelmie RJ, Schoof JT. Developing robust projections of wind energy resources under climate change. *European Conference on Impacts of Climate Change on Renewable Energy Sources*, Reykjavik, Iceland, June, 2006.

Schoof JT, Arguez A, Brolley J, O'Brien JJ. A new weather generator based on spectral properties of surface air temperature. *Proceedings of the American Meteorological Society 18th Conference on Probability and Statistics in the Atmospheric Sciences*, Atlanta, GA, February 2006.

Pryor S, Barthelmie R, Schoof J. How coherent is inter-annual variability of wind energy indices over Europe and what are the implications for large scale penetration by wind energy of electricity markets? *Proceedings of European Wind Energy Conference*, London, UK, November 2004 (refereed).

Pryor SC, Barthelmie RJ, Schoof JT. Wind energy prognoses for the Baltic region. *Proceedings for the 4th Study Conference on BALTEX (Baltic Sea Experiment)*. Bornholm, Denmark, May 2004.

Schoof JT, Pryor SC. An evaluation of two GCMs: North American teleconnections and synoptic phenomena. *Proceedings of the 15th AMS Symposium on Global Change and Climate Variations*, Seattle, WA, January 2004.

Pryor SC, Schoof JT, Barthelmie RJ. Near-surface flow regimes: Recent changes and tools for prognoses. *Proceedings of the 15th AMS Symposium on Global Change and Climate Variations*, Seattle, WA, January 2004.

Barthelmie RJ, Pryor SC, Schoof JT. 2003. Evidence of trends in near-surface wind speeds over the Baltic. *Proceedings of Offshore Wind Energy in the Mediterranean and other European Seas (OWEMES) 2003, Naples, April 2003*, 35-49.

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Pryor S, Barthelmie R, Carreiro M, Davis M, Hartley A, Jensen B, Oliphant A, Randolph J, Schoof J. 2001. Nitrogen deposition to a mid-latitude deciduous forest and ecosystem response. *Proceedings of 2nd International Nitrogen Conference, ESA*. Washington, D.C., October 2001.

Pryor SC, Barthelmie RJ, Jensen B, Davis ML, Hirzy KC, Schoof JT, Sorensen LL. 2001. Bidirectionality of ammonia fluxes: Observations over a deciduous forest, *Proceedings of the Sixth International Conference on Air-Surface Exchange of Gases and Particles*, CEH, Edinburgh, 36-41.

Schoof JT, Pryor SC. 2000. Synoptic circulation classification and downscaling for the Midwestern United States. *Proceedings of the American Meteorological Society 15th Conference on Probability and Statistics in the Atmospheric Sciences*, J4-J7. Asheville, NC, May 2000.

Pryor SC, Barthelmie RJ, Schoof JT, Sørensen LL, Erickson DJ. 2000. Modeling heterogeneous chemistry of nitrogen gases in/on sea spray. *Journal of Aerosol Science Supplement. Proceedings of European Aerosol Conference* 1033-1034.

Grimmond CSB, Robeson SM, Schoof J. 1999. Variability in below-canopy climatic conditions during the growing season within an eastern North American deciduous forest. R.J. de Dear and J.C. Potter (eds) *Proceedings of the International Conference on Biometeorology (ICB)*, Sydney, Australia, November 1999. ICBP03.05. 4pp.

Robeson SM, Grimmond CSB, Schoof J. 1998. Comparison of open-site and below-canopy climatic conditions within an eastern North American deciduous forest. *Proceedings of the American Meteorological Society 23rd Conference on Agricultural and Forest Meteorology*, 184-187. Albuquerque, NM, November 1998.

D. CHAPTERS/SECTIONS IN PROFESSIONAL BOOKS

Schoof JT. 2016. The Earth's Climate. In *Oxford Bibliographies in Ecology*, Ed. David Gibson, New York, Oxford University Press.

Schoof JT. 2014. Atmospheric Composition and Structure. In *Oxford Bibliographies in Geography*, Ed. Barney Warf, New York, Oxford University Press.

Schoof JT. 2013. Atmospheric Science. Reference Module in Earth Systems and Environmental Science, Elsevier.

Schoof JT. 2013. Historical and projected changes in human heat stress in the Midwestern USA. In: Climate Change in the Midwest: Impacts, Risk, Vulnerability, and Adaptation, Ed: SC Pryor, Indiana University Press.

Schoof JT. 2009. Overview: Thermal regimes. In: Understanding Climate Change: Climate Variability, Predictability, and Change in the Midwestern United States, Ed: SC Pryor, Indiana University Press, p 19-28.

Schoof JT. 2009. Historical and projected changes in the length of the frost-free season in the Midwestern USA. In: Understanding Climate Change: Climate Variability, Predictability, and Change in the Midwestern United States, Ed: SC Pryor, Indiana University Press, p 42-54.

Pryor SC, Kunkel KE, Schoof JT. 2009. Did precipitation regimes change during the twentieth century? In: Understanding Climate Change: Climate Variability, Predictability, and Change in the Midwestern United States, Ed: SC Pryor, Indiana University Press, p 100-112.

Schoof JT, Pryor SC. 2009. Teleconnections and circulation patterns in the Midwestern United States: Observations vs. General Circulation Models. In: Understanding Climate Change: Climate Variability, Predictability, and Change in the Midwestern United States, Ed: SC Pryor, Indiana University Press, p 196-206.

Schoof JT. 2010. "The Hadley Cell" in The Encyclopedia of Geography, edited by Barney Warf, Sage.

Schoof JT, Therrell MD. 2009. "Climate Change" in The Encyclopedia of Organic, Sustainable and Local Food, edited by Leslie Duram, Greenwood Press.

E. BOOK REVIEWS

Surviving Global Warming. Sedjo R. Prometheus, 2019. CHOICE: *Current Reviews for Academic Libraries. Science and Technology*.

The Palgrave Handbook of Climate History, White S, Pfister C, and F. Mauelshagen (editors). Palgrave MacMillan, 2018. CHOICE: *Current Reviews for Academic Libraries. Science and Technology*. January 2019.

Anthropocene: A Very Short Introduction. Ellis, E.C. Oxford, 2018. CHOICE: *Current Reviews for Academic Libraries. Science and Technology*. November 2018.

Extreme Cities: The Peril and Promise of Urban Life in the Age of Climate Change. Dawson A. Verso, 2017. CHOICE: *Current Reviews for Academic Libraries. Science and Technology*. August 2018.

Living in the Anthropocene: Earth in the Age of Humans. Kress W.J. and J.K. Stein (editors). Smithsonian Books, 2017. CHOICE: *Current Reviews for Academic Libraries. Science and Technology.* May 2018.

Blue Dunes – Climate Change by Design. Keenan JM and Weisz C (editors). Columbia University Press, 2016. CHOICE: *Current Reviews for Academic Libraries. Science and Technology.* November 2017.

Just Cool It! The Climate Crisis and What We Can Do. Suzuki D and Hannington I. Greystone Books, 2017. CHOICE: *Current Reviews for Academic Libraries. Science and Technology.* September 2017.

Forest Conservation in the Anthropocene. Sample VA, Bixler RP, and Miller C (editors). University Press of Colorado 2016. CHOICE: *Current Reviews for Academic Libraries. Science and Technology.* April 2017.

Experimenting on a small planet, 2nd Edition. William W. Hay, Springer, 2016. CHOICE: *Current Reviews for Academic Libraries. Science and Technology.* January 2017.

Retreat from a Rising Sea: Hard Decisions in an Age of Climate Change. Orrin Pilkey et al., Columbia University Press 2016, CHOICE: *Current Reviews for Academic Libraries. Science and Technology.* December 2016.

Climate Change: What Everyone Needs to Know. Joseph Romm, Oxford 2015. CHOICE: *Current Reviews for Academic Libraries. Science and Technology.* October 2016.

Climatic Changes Since 1700. Stefan Brönniman, Springer. 2015. CHOICE: *Current Reviews for Academic Libraries. Science and Technology.* May 2016.

Eco-Hustle! Global Warming, Greenwashing, and Sustainability. Bruce E. Johansen, Praeger. 2015. CHOICE: *Current Reviews for Academic Libraries. Science and Technology.* November 2015.

Understanding Climate Change. Science, Policy, and Practice. Sarah L. Burch and Sara E. Harris, University of Toronto Press. 2014. CHOICE: *Current Reviews for Academic Libraries. Science and Technology.* March 2015.

Can Science Fix Climate Change? Mike Hulme, Polity Press, 2014. CHOICE: *Current Reviews for Academic Libraries. Science and Technology.* May 2015.

Behind the Curve: The Science and Politics of Global Warming. Joshua P. Howe, University of Washington Press, 2014. CHOICE: *Current Reviews for Academic Libraries. Science and Technology.* October 2014.

Climate-Challenged Society. John S. Dryzek, Richard B. Norgaard, and David Schlosberg, Oxford, 2013. CHOICE: *Current Reviews for Academic Libraries. Science and Technology*. July 2014.

Climate dynamics. Kerry H. Cook, 2013. CHOICE: *Current Reviews for Academic Libraries. Science and Technology*. March 2014.

Climate change science: A modern synthesis. G. Thomas Farmer and John Cook, Springer, 2013. CHOICE: *Current Reviews for Academic Libraries. Science and Technology*. December 2013.

Experimenting on a small planet. William W. Hay, Springer, 2013. CHOICE: *Current Reviews for Academic Libraries. Science and Technology*. September 2013.

Managing the risks of extreme events and disasters to advance climate change adaptation. Special report of the IPCC (2012). CHOICE: *Current Reviews for Academic Libraries. Science and Technology*. April 2013.

Future climate change. Mark Maslin and Samuel Randalls, Routledge, 2012. CHOICE: *Current Reviews for Academic Libraries. Science and Technology*. November 2012.

The hockey stick and the climate wars: dispatches from the front lines. Michael E. Mann, Columbia, 2012. CHOICE: *Current Reviews for Academic Libraries. Science and Technology*.

Climate change and cities. Cynthia Rosenzweig, et al. (editors), Cambridge, 2011. CHOICE: *Current Reviews for Academic Libraries. Science and Technology*. March 2012.

Earth: The operator's manual. Richard B. Alley, W.W. Norton and Company, 2011. CHOICE: *Current Reviews for Academic Libraries. Science and Technology*. November 2011.

Climate change: Global risks, challenges, and decisions. K. Richardson, W. Steffen, and D. Liverman, Cambridge, 2011. CHOICE: *Current Reviews for Academic Libraries. Science and Technology*. October 2011.

The warming papers. D. Archer and R. Pierrehumbert (editors), Wiley-Blackwell, 2011. CHOICE: *Current Reviews for Academic Libraries. Science and Technology*. August 2011.

The challenge of climate change: Which way now? D.D. Perlmuter and R.L. Rothstein, Wiley-Blackwell, 2011. CHOICE: *Current Reviews for Academic Libraries. Science and Technology*. June, 2011.

Coming climate crisis?: Consider the past, beware the big fix, C.L. Parkinson, Rowman and Littlefield, 2010. CHOICE: *Current Reviews for Academic Libraries. Science and Technology*. October, 2010.

Climate change science and policy, S.H. Schneider (ed), Island Press, 2010. CHOICE: *Current Reviews for Academic Libraries. Science and Technology*., June, 2010.

Empirical-statistical downscaling, Benestad, Hanssen-Bauer, and Chen, 2008. *Bulletin of the American Meteorological Society* **90**, 1557-1559, October, 2009.

Global climate change impacts in the United States, U.S. Global Change Research Program. Cambridge University Press, 2009. CHOICE: *Current Reviews for Academic Libraries. Science and Technology*, April, 2010.

Why we disagree about climate change: Understanding controversy, inaction, and opportunity, Hulme, Cambridge University Press, 2009. CHOICE: *Current Reviews for Academic Libraries. Science and Technology*, November, 2009.

Climate of extremes: Global warming science they don't want you to know, Michaels and Balling Jr., Cato Institute, 2009. CHOICE: *Current Reviews for Academic Libraries. Science and Technology*, June, 2009.

Six degrees: Our future on a hotter planet, Lynas, National Geographic, 2008. CHOICE: *Current Reviews for Academic Libraries. Science and Technology*., February, 2009.

Climate extremes and society, Diaz and Murnane (editors), Cambridge University Press, 2008. CHOICE: *Current Reviews for Academic Libraries. Science and Technology*, December 2008.

It's the sun, not your SUV: CO₂ won't destroy Earth, Zyrkowski, St. Augustine Press, 2008. CHOICE: *Current Reviews for Academic Libraries. Science and Technology*, December 2008.

Ice, mud and blood: Lessons from climates past, Turney, Macmillan, 2008. CHOICE: *Current Reviews for Academic Libraries. Science and Technology*, October 2008.

Climate change: A multidisciplinary approach, Burroughs, Cambridge University Press, United Kingdom, 2nd Edition, 2007. CHOICE: *Current Reviews for Academic Libraries. Science and Technology*, June 2008.

Fighting for love in the century of extinction: how passion and politics can stop global warming, Goodstein, University of Vermont Press, Burlington, VT. 2007. CHOICE: *Current Reviews for Academic Libraries. Science and Technology*, February, 2008.

Under a green sky, Ward, Collins Publishing, New York, NY, 2007. CHOICE: *Current Reviews for Academic Libraries. Science and Technology*, October, 2007.

Heat: how to stop the planet from burning, Monbiot, South End Press, Cambridge, MA, 2007. CHOICE: *Current Reviews for Academic Libraries. Science and Technology*, October, 2007.

Kicking the carbon habit: Global warming and the case for renewable and nuclear energy, Sweet, Columbia, 2006, 256 pp, CHOICE: *Current Reviews for Academic Libraries. Science and Technology*, December, 2006

Field notes from a catastrophe: Man, nature and climate change, Kolbert, Bloomsbury, 2006, 210 pp, CHOICE: *Current Reviews for Academic Libraries. Science and Technology*. December, 2006.

Global warming: Myth or reality?, Leroux, Springer/Praxis, 2005, 509p, CHOICE: *Current Reviews for Academic Libraries. Science and Technology*, February, 2006.

Intraseasonal variability in the atmosphere-ocean climate system, Lau and Waliser, Praxis, 2005, 436p, CHOICE: *Current Reviews for Academic Libraries. Science and Technology*, November 2005.

Understanding weather: a visual approach, Mayes and Hughes, Arnold 2004, 188p, CHOICE: *Current Reviews for Academic Libraries. Science and Technology*. June 2005.

F. WEBSITE REVIEWS

Skeptical Science (skepticalscience.com). CHOICE: *Current Reviews for Academic Libraries. Science and Technology*. August 2015.

VI. TEACHING INTERESTS AND SPECIALTIES

A. TEACHING INTERESTS AND SPECIALTIES

- Meteorology and climatology
- Physical geography
- Global and regional environmental change
- Statistical methods and their application to problems in geography and climatology

B. TEACHING AND TRAINING GRANTS

Egyptian High School Summer Enrichment Program, SIU Carbondale College of Education and Human Services, August 2011, funded collaborator.

Development and delivery of thematically integrated courses in meteorology and climatology, Southern Illinois University Excellence Through Commitment Undergraduate Teaching Enhancement Award, 2008.

C. TEACHING AWARDS AND HONORS

None at this time

D. CURRENT GRADUATE FACULTY STATUS:

Direct Dissertation Status, approved 2008.

E. NUMBER OF MASTER'S AND PH.D. COMMITTEES ON WHICH YOU HAVE SERVED

Qing Wang, Ph.D., 2018 (Environmental Resources and Policy)
Minzi Wang, Ph.D., 2018 (Environmental Resources and Policy)
Anastasia Kyrmanidou, Ph.D., 2018 (Geosciences)
Anne Hayden-Lesmeister, Ph.D., 2017 (Environmental Resources and Policy)
Santosh Rijal, Ph.D., 2017 (Environmental Resources and Policy)
Mukesh Bhattarai, Ph.D., 2016 (Environmental Resources and Policy)
Wendi Middleton, Ph.D., 2015 (Health Education)
Kristen Bouska, Ph.D., 2014 (Environmental Resources and Policy)
Tim Stoebner, Ph.D., 2014 (Environmental Resources and Policy)
Alicia Wodika, Ph.D., 2013 (Health Education and Recreation)
Brendan Lutz, Ph.D., 2011 (Environmental Resources and Policy)
Terri Thomas, Ph.D., 2009 (Environmental Resources and Policy)

Swastik Bhandari, M.S., 2018 (Civil and Environmental Engineering)
Ranjan Parajuli, M.S., 2018 (Civil and Environmental Engineering)
Molly Hacker, M.S., 2018 (Plant Biology)
Neil Matthews-Pennanen, M.S., 2017 (Environment and Society, Utah State University)
Brandon Polk, M.S., 2016 (Geography and Environmental Resources)
Pratik Pathak, M.S., 2016 (Civil and Environmental Engineering)
Diane Benbella, M.S., 2016 (Geography and Environmental Resources)
Ryan Larimore, M.S., 2015 (Geography and Environmental Resources)
Ashley Suiter, M.S., 2015 (Geography and Environmental Resources)
Mohamed Mahgoub, M.S., 2014 (Geography and Environmental Resources)
Samir Shrestha, M.S., 2014 (Geography and Environmental Resources)
Guanling Feng, M.S., 2014 (Geography and Environmental Resources)
Sydney Klein, M.S., 2014 (Geography and Environmental Resources)
Brooke Lopeman, M.S., 2014 (Geography and Environmental Resources)
Andrew Johnson, M.S., 2013 (Geography and Environmental Resources)
Melva Trevino-Pena, M.S., 2013 (Geography and Environmental Resources)
Ivan Remane, M.S., 2013 (Geography and Environmental Resources)
Kerry McLeran, M.S., 2013 (Geography and Environmental Resources)
Dana Murphy, M.S., 2013 (Geography and Environmental Resources)
Ryan Verbanaz, M.S., 2013 (Geology)
Tony Romano, M.S., 2012 (Geography and Environmental Resources)
Adam Oller, M.S., 2012 (Geography and Environmental Resources)
David Mann, M.S., 2011 (Geography and Environmental Resources)
Andrew Fleming, M.S., 2011 (Geography and Environmental Resources)
Sarah Waggoner, M.S., 2011 (Geography and Environmental Resources)
Hannah Kalk, M.S., 2011 (Plant Biology)

Rahul Prabhakar, M.S., 2010 (Electrical and Computer Engineering)
Nick Longbucco, M.S., 2010 (Geography and Environmental Resources)
Clara Mundia, M.S., 2010 (Geography and Environmental Resources)
Olga Guajardo, M.S., 2008 (Geography and Environmental Resources)
Christiane Bohn, M.S., 2007 (Geography and Environmental Resources)

F. NAMES OF STUDENTS WHO HAVE COMPLETED MASTER'S THESES AND DOCTORAL DISSERTATIONS UNDER YOUR DIRECTION

Mercedes Gomez Jacobo, M.S., 2018 (Geography and Environmental Resources)
Assessing Equivalent Temperature Trends in Major Eastern US Cities.

Khara Lukancic, M.S., 2016 (Geography and Environmental Resources)
Sensitivity of Strong Extratropical Cyclones to Large-Scale Climate Variability in the Contiguous United States.

Awoke Teshager, Ph.D., 2016 (Environmental Resources and Policy; co-advised with Dr. Silvia Secchi) *Modeling Impacts of Agricultural Scenarios, Climate Change, and Best Management Practices on Watershed Water Quantity and Quality, and Crop Production the Midwestern USA.*

Brooke Haldeman, M.S. 2015 (Geography and Environmental Resources) *Influence of Synoptic Scale Circulation on Equivalent Temperature Extremes in Chicago, IL (1948-2014)*

Zach Heern, M.S., 2013 (Geography and Environmental Resources) *Investigating Trends in Lower Tropospheric Heat Content and Heat Waves Over the Central United States Using Equivalent Temperature (1951-2011).*

Johannes Mack, M.S., 2013 (Geography and Environmental Resources) *The Cryosphere and North Atlantic Tropical Cyclone Activity: Statistical Forecasting and Physical Mechanisms*

Ravi Dhungel, M.S., 2012 (Geography and Environmental Resources / Computer Science) *Web Mapping and Application Towards A Cloud: Enabling a WEBGIS Prototype in an Open Source Environmental*

Samuel Fisher, M.S., 2012 (Geography and Environmental Resources)
Improving the Reliability of Wind Power Through Geographic Dispersion of Wind Generation.

Audrey Wagner, M.S., 2011 (Geography and Environmental Resources)
Investigating Climatic Drivers of the Warming Hole Through Empirical Downscaling of Eastern U.S. Summertime Maximum Temperatures

Mark Carlos, Ph.D., 2010 (Environmental Resources and Policy)

An Analysis of Wind Power Plant Prospecting in the Central United States

Jeremy Surprenant, M.S., 2009 (Geography and Environmental Resources)
A Synoptic Climatology of Wildfires in the Central Hardwood Region of the Midwestern United States

G. COURSES TAUGHT

Direct Instruction:

Instructor, Department of Geography and Environmental Resources, Southern Illinois University, Carbondale, IL, USA: ***GEOG 303: Physical Geography***
Spring 2012 (1 section, approximately 60 students)

Instructor, Department of Geography and Environmental Resources, Southern Illinois University, Carbondale, IL, USA: ***GEOG 330: Meteorology***

Spring 2006 (1 section, approximately 80 students)
Fall 2006 (1 section, approximately 80 students)
Spring 2007 (1 section, approximately 60 students)
Fall 2007 (1 section, approximately 80 students)
Spring 2008 (1 section, approximately 60 students)
Fall 2008 (1 section, approximately 65 students)
Spring 2009 (1 section, approximately 45 students)
Fall 2009 (1 section, approximately 55 students)
Spring 2010 (1 section, approximately 45 students)
Fall 2010 (1 section, approximately 46 students)
Fall 2011 (1 section, approximately 68 students)
Fall 2013 (1 section, approximately 60 students)
Fall 2014 (1 section, approximately 40 students)

Instructor, Department of Geography and Environmental Resources, Southern Illinois University, Carbondale, IL, USA: ***GEOG 412/512: Applied Statistics in Geography***

Fall 2007 (1 section, approximately 15 students)
Fall 2008 (1 section, approximately 10 students)
Fall 2009 (1 section, approximately 20 students)
Spring 2011 (1 section, approximately 24 students)
Fall 2011 (1 section, approximately 22 students)
Fall 2012 (1 section, approximately 29 students)
Fall 2013 (1 section, approximately 25 students)
Fall 2014 (1 section, approximately 25 students)
Fall 2015 (1 section, approximately 20 students)
Fall 2016 (1 section, approximately 20 students)
Fall 2017 (1 section, approximately 20 students)
Fall 2018 (1 section, approximately 20 students)

Instructor, Department of Geography and Environmental Resources, Southern Illinois University, Carbondale, IL, USA: ***GEOG 431/531: Climatology***

Spring 2006 (1 section, approximately 12 students)
Spring 2007 (1 section, approximately 15 students)
Spring 2008 (1 section, approximately 11 students)
Spring 2009 (1 section, approximately 12 students)
Spring 2010 (1 section, approximately 20 students)
Spring 2011 (1 section, approximately 15 students)
Spring 2012 (1 section, approximately 12 students)
Spring 2013 (1 section, approximately 16 students)
Spring 2015 (1 section, approximately 10 students)
Spring 2016 (1 section, approximately 15 students)
Spring 2018 (1 section, approximately 10 students)

Instructor, Department of Geography and Environmental Resources, Southern Illinois University, Carbondale, IL, USA: ***GEOG 439/539: Global Climate Change,***

Fall 2006 (1 section, approximately 11 students)
Fall 2010 (1 section, approximately 19 students)
Fall 2016 (1 section, approximately 20 students)
Fall 2018 (1 section, approximately 20 students)

Instructor, Department of Geography, Indiana University, Bloomington, Indiana, USA: ***G109 Weather and Climate***

Spring 2003 (1 section, approximately 165 students)

Instructor, Department of Geography, Indiana University – Purdue University at Indianapolis, Indianapolis, Indiana, USA: ***G111 Hurricanes***

Fall 2002 (1 section, approximately 26 students)

Associate Instructor, Department of Geography, Indiana University, Bloomington, Indiana, USA: ***G109 Weather and Climate***

Fall 1999 (3 lab sections, approximately 90 students)

Indirect Teaching (Independent Study, etc.)

Instructor, Department of Geography and Environmental Resources, Southern Illinois University, Carbondale, IL, USA: ***GEOG 490: Readings in Geography.***

Fall 2007 (1 student)
Spring 2007 (3 students)
Spring 2008 (2 students)
Fall 2012 (1 student)
Spring 2014 (1 student)
Spring 2015 (1 student)
Fall 2017 (1 student)

Instructor, Department of Geography and Environmental Resources, Southern Illinois University, Carbondale, IL, USA: **GEOG 591: *Independent Studies***.

Spring 2008 (1 student)
Spring 2009 (1 student)
Fall 2009 (1 student)
Spring 2010 (2 students)
Fall 2010 (1 student)
Summer 2011 (1 student)
Fall 2011 (2 students)
Fall 2011 (1 student)
Fall 2012 (1 student)
Spring 2014 (1 student)
Fall 2014 (1 student)
Spring 2015 (2 students)
Fall 2016 (1 student)
Spring 2017 (2 students)
Fall 2017 (2 students)
Summer 2018 (1 student)

Instructor, Department of Geography and Environmental Resources, Southern Illinois University, Carbondale, IL, USA: **GEOG 501: *Research Methods***.

Spring 2017 (1 student)

Instructor, Department of Geography and Environmental Resources, Southern Illinois University, Carbondale, IL, USA: **ER&P 599: *Individual Research***.

Summer 2007 (1 student)
Summer 2011 (1 student)
Fall 2015 (1 student)
Fall 2016 (1 student)

H. GUEST/INVITED LECTURES

Guest Lectures

Schoof JT. Climate Change Science, Cinema and Photography 470, SIU Carbondale, February, 2019.

Schoof JT. Climate Modeling, Geography and Environmental Resources 439, SIU Carbondale, April 2014.

Schoof JT. Global Climate Change, Geography and Environmental Resources 470, SIU Carbondale, lecture has been given each semester since Spring 2014.

Schoof JT. Wind energy. Geology 588, SIU Carbondale.
This guest lecture was given four times: Summer 2011-2014.

Schoof JT. Climate change and human health. Health Education 588, SIU Carbondale. This guest lecture has been given 7 times: Summer 2009-2015.

Schoof JT. GEOG 500, Principles of Research, SIU Carbondale. This guest lecture has been given each fall since 2006.

Schoof JT. Anthropogenic climate change. Agribusiness Economics 442, SIU Carbondale. This guest lecture has been given 6 times: 2008-2014.

Schoof JT. Global (Climate) Change. Environmental Resources and Policy (ERP 500), SIU Carbondale. This guest lecture was given 4 times: 2006-2013.

Schoof JT. Severe Weather Hazards. Geography and Environmental Resources 436 - Natural Hazards, SIU Carbondale. 2008-2009.

Schoof JT. 20th century climate variability. Department of Geography, G475/575 Climate Change, Indiana University, Fall 2003.

Schoof JT. Synoptic climatological classification. Department of Geography, G433 Synoptic Meteorology and Climatology, Indiana University, Spring 2001.

Seminar Presentations

Schoof JT. Projected regional changes in the characteristics of dry and moist heat waves in the United States derived from downscaled CMIP5 models. Geography/ERP seminar, Southern Illinois University, Fall 2017.

Schoof JT. Recent changes in the moisture content of United States heat waves. Department of Geography, Kent State University, Fall 2016.

Schoof JT. Observed and GCM-simulated relationships between US wind speeds and large scale modes of climate variability, Geology Department, SIU Carbondale, Fall 2013.

Schoof JT. Quantitative Research, McNair Scholars Program, SIU Carbondale, Summer 2012.

Schoof JT. Projections of human heat stress for the Midwestern USA. ER&P 598, SIU Carbondale, Fall 2010.

Schoof JT. Probabilistic downscaling of 21st century precipitation occurrence and intensity. Illinois State Water Survey Center for Atmospheric Science, Champaign, IL, December 2009.

Schoof JT. Using statistical precipitation models to study historical and projected climate change. Indiana University Department of Geography colloquium. September, 2008.

Schoof JT. Recent climate change: Are we approaching a tipping point? Keynote address for “The Cascading Effects of Global Warming”, a forum organized by the Jackson County League of Women Voters and the United Nations Association of Southern Illinois, September 2008.

Schoof JT. Development of a regional-scale seasonal temperature and precipitation forecasting system for the Southeastern USA. ER&P 598, SIU Carbondale, Spring 2008.

Schoof JT. Dynamically and statistically downscaled seasonal temperature and precipitation hindcast ensembles for the southeastern USA. St. Louis University, Department of Earth and Atmospheric Sciences, April 2008.

Schoof JT. Changes in the length of the frost-free season in the Midwestern USA from historical records and climate model projections. SIU Center for Ecology, SIU Carbondale, April 2008.

Schoof JT. Climate Modeling. Symposium titled “Changing climates: Evidence of long term trends and their social consequences. Sponsored by the Center for Delta Studies, Southern Illinois University, Carbondale, February 2008.

Schoof JT. Climate projections for the Midwest. The Center for Ocean-Atmospheric Prediction Studies (COAPS), Florida State University, October 2004.

Schoof JT. Climate projections for the Midwest. Department of Geography Colloquium, Indiana University, October 2004.

Schoof JT. 21st Century Climate Projections. Dean’s Advisory Board, Indiana University, September 2004.

Invited Service Presentations

Schoof JT. Regional Climate Change in Southern Illinois. Presentation to City of Carbondale Department Heads. Carbondale, IL, June 2019.

Schoof JT. Regional Climate Change in Southern Illinois. Closing Plenary Presentation for the Illinois Indigenous Plants Symposium, John A. Logan College, Carterville, IL, April, 2019.

Schoof JT. Regional Climate Change in Southern Illinois. Rotary Club of Jackson-Williamson Counties, April, 2019.

Schoof JT. Citizen Science and the CoCoRaHS Network, Saluki Water Workshop, March 2019.

Schoof JT. Weather and Climate. University of Illinois Master Naturalist course, Cache River Visitors Center, March, 2019.

Schoof JT. Unpacking Recent Climate Change Reports: The IPCC Report on Global Warming of 1.5°C and the 4th National Climate Change Assessment. Sierra Club, Shawnee Group, February, 2019.

Schoof JT. Weather and Climate. University of Illinois Master Naturalist course, Cache River Visitors Center, December 2018.

Schoof JT. Understanding the IPCC Special Report on Global Warming of 1.5°C. Keynote Address, Saluki Energy Forum, November, 2018.

Schoof JT. Citizen Science: CoCoRaHS. Saluki Water Workshop, March 2018.

Schoof JT. Climate Change and Water: Understanding Changes in the Hydrologic Cycle in a Warmer World. Carbondale Community Arts, December 2016.

Schoof JT. Weather and Climate. University of Illinois Master Naturalist course, Crab Orchard Wildlife Refuge Visitors Center, March 2014, October 2016, April 2018

Schoof JT. Global and Regional Climate Change Science. Lecture honoring David Christensen, Varsity Theater, Carbondale, January 2015.

Schoof JT. Panel Member, Illinois News Broadcasters Association (INBA) panel on severe weather, Rent One Park, Marion, IL, October 2014.

Schoof JT. Global Climate Change. SIU Carbondale Fossil Fuel Divestment Movement presentation, December 2013.

Schoof JT. Twenty-First Century Climate Risks for the Midwestern USA. Sierra Club, Shawnee Group, January 2013.

Schoof JT. Drought and the Mississippi River, National Public Radio (NPR) On Point with Tom Ashbrook, January 2013.

Schoof JT. Understanding Regional Climate Change Projections, Science Café, Science Center of Southern Illinois, November 2012. A WSIU radio interview with Jennifer Fuller was also conducted as part of the Science Café series.

Schoof JT. Global Warming. Rotary Club of Carbondale, April 2008.

Schoof JT. Technology and Science. Project Next Generation, Carbondale Public Library, Carbondale, IL, 2007.

Schoof JT. Climate Change. Girl Scouts of America, Carbondale, IL, 2006.

I. Mentoring

Mentor, McNair Scholars Program, Advisee: Mercedes Gomez, Summer 2012.

Internship Mentor (Emma Bialecki): Illinois Department of Natural Resources, Summer 2007.

Undergraduate Research Assistantship (Justin Hassler): Visualization of 20th Century Climate Variations, Fall 2006, Spring 2007.

Undergraduate Research Assistantship (Brett Murphy): Development of a Stochastic Weather Generator for Heat Stress, Spring 2009.

J. Current Graduate Students

a. PhD Students

Yao Xue (ER&P, chair)

Xian Liu (ER&P, committee member)

Amina Nakiana (ER&P, committee member)

Guangping Qie (ER&P, committee member)

Balbhadra Thakur (Engineering, committee member)

b. MS Students

Christian Landry (Geography and Environmental Resources, chair)

Sourav Bhadra (Geography and Environmental Resources, committee member)

Logan Kent (Zoology, committee member)

David Leifer (Geography and Environmental Resources, committee member)

Shishir Manandhar (Geography and Environmental Resources, committee member)

Deepak Parajuli (Geography and Environmental Resources, committee member)

Chi Fai Wong (Geography and Environmental Resources, committee member)

Jefferson Wright (Geography and Environmental Resources, committee member)

VII. UNIVERSITY SERVICE

A. DEPARTMENTAL SERVICE

2014-15 Undergraduate Program Director, Department of Geography & Environmental Resources, SIU Carbondale

2009-15 Curriculum Committee, Department of Geography & Environmental Resources, SIU Carbondale

2006-12 Undergraduate Program Director, Department of Geography & Environmental Resources, SIU Carbondale

B. COLLEGE AND UNIVERSITY SERVICE

2017 Reviewer, Saluki Innovation Annex Proposals
 2014-18 College of Liberal Arts, Budget and Planning Committee
 2014-16 Member, Bargaining Team for GAU contract negotiation
 2013-14 Chair, Task Force on Hydrology, SIU Carbondale
 2012-13 Chair, College of Liberal Arts (CoLA) Council, SIU Carbondale
 2012-13 Tuition-on-grants Committee
 2012 University-Level Teaching Excellence Award Committee
 2011-13 College of Liberal Arts, Budget and Planning Committee
 2011-12 Chairperson, Communications and Outreach Committee, College of Liberal Arts (CoLA) Council, SIU Carbondale
 2011-13 Member, College of Liberal Arts (CoLA) Council, SIU Carbondale
 2006-08 Member, College of Liberal Arts (CoLA) Council, SIU Carbondale
 2002-04 Executive Board Member of the Indiana University Commission on Multicultural Understanding (COMU); Co-Convener for the *Faculty and Staff Policy Issues Committee*

VIII. PROFESSIONAL SERVICE

A. MEMBERSHIP IN PROFESSIONAL ASSOCIATIONS

American Geophysical Union (AGU)
 American Meteorological Society (AMS)
 Association of American Geographers (AAG)
 Sigma Xi (Secretary of SIU Chapter)

B. OFFICES HELD AND HONORS AWARDED IN PROFESSIONAL ASSOCIATIONS

Water and Atmospheric Resources Monitoring (WARM) Program, Prairie Research Institute, University of Illinois, external advisory board (2019-current)

American Meteorological Society (AMS) Committee of Judges of Undergraduate Awards (2011-2015)

Consortium of Universities for the Advancement of Hydrologic Science (CUAHSI), SIU representative.

C. CONSULTANTSHIPS

None at this time.

D. EVALUATION OF MANUSCRIPTS FOR JOURNALS AND BOOK PUBLISHERS AND OF GRANT PROPOSALS FOR AGENCIES

Book Reviews:
Oxford University Press: 1 review (2018)
Taylor and Francis (prospectus review): 1 review (2017)

Cambridge (prospectus review): 1 review (2013)
Southern Illinois University Press: 1 review (2013)
Prentice Hall (textbook): 1 review (2010).
Brooks/Cole (textbook): 1 review (2008).
John Wiley & Sons (textbooks): 2 reviews (2007, 2008).

Manuscript Reviews: I serve as a reviewer for a large number of climate-related journals. The journals below include those that I have reviewed for in the past 5 years.

Applied Geography
Atmosphere-Ocean
Climate
Climate Dynamics
Climate Research
Climatic Change
Geography Compass
Geophysical Research Letters
International Journal of Climatology
Journal of Applied Meteorology and Climatology
Journal of Atmospheric and Oceanic Technology
Journal of Geophysical Research – Atmospheres
Journal of Hydrology
Journal of Hydrometeorology
Physical Geography
Theoretical and Applied Climatology
Weather and Climate Extremes

Proposal Reviews:

National Science Foundation, Panel Review: 2012
NOAA Climate Program Office (CPO): 1 review (2009)
USGS Maine Water Resources Institute Program Grants: 1 review (2009)
National Science Foundation ad-hoc reviews: 6 reviews (2007, 2011 (2), 2012 (2), 2014)
Czech Science Foundation: 1 review (2005)
Estonian Science Foundation: 1 review (2011)

E. PAPERS AND PRESENTATIONS AT PROFESSIONAL MEETINGS (see IV F)

F. PROMOTION AND TENURE REVIEW

2018 Loyola University Chicago, Institute for Environmental Sustainability
2018 University of Connecticut

IX. COMMUNITY SERVICE

2019 Judge, Sigma Xi Poster Competition, SIU Carbondale

2014 Judge, Sigma Xi Poster Competition, SIU Carbondale
2013 Judge, Southern Illinois Junior Academy of Science Region 8 Science Fair
2012 Judge, Sigma Xi Poster Competition, SIU Carbondale
2010 Judge, Southern Illinois Junior Academy of Science Region 8 Science Fair
2009 Judge, Southern Illinois Junior Academy of Science Region 8 Science Fair
2007 Judge, Southern Illinois Junior Academy of Science Region 8 Science Fair