

CURRICULUM VITA

**SCOTT C. SHERIDAN, PhD**

Department of Geography  
Kent State University  
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JULY 2017

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*Research interests in: Applied climatology, synoptic climatology, human bioclimatology,  
climate change and variability, extreme temperature events*

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**PROFESSIONAL EXPERIENCE**

**DEPARTMENT OF GEOGRAPHY, KENT STATE UNIVERSITY**

Department Chairperson 2017-

Acting/Interim Chairperson 2015-2016

Professor 2011-

Associate Professor 2005-11

Assistant Professor 2000-05

Graduate Coordinator 2006-15

Faculty director, Kent State-Geneva 2009

Junior Teaching Scholar Fellow 2001-02

**INTERNATIONAL JOURNAL OF BIOMETEOROLOGY**

Editor-in-chief 2008-

Field Editor, Epidemiology 2004-2007

**SCIENCE OF THE TOTAL ENVIRONMENT**

Associate Editor 2015-

**DEPARTMENT OF GEOGRAPHY, UNIVERSITY OF DELAWARE**

Research Assistant 1996-2000

Instructor 1998-1999

University Fellow 1996-1999

**DEPARTMENT OF METEOROLOGY, TEXAS A&M UNIVERSITY**

Assistant to the State Climatologist 1994-95

American Meteorological Society Student Fellow 1993-94

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**EDUCATION**

2000      Doctor of Philosophy, Climatology, University of Delaware  
1995      Master of Science, Meteorology, Texas A&M University  
1993      Bachelor of Science, Meteorology, Rutgers University

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## FUNDED RESEARCH

*\*subcontract value*

2017-20	<i>Developing extreme climate change indicators related to human thermal comfort</i> Co-Investigator, <b>NOAA CPO</b> (PI C. Lee)	\$269,456
2017-20	<i>Using a synoptic climatological framework to assess predictability of anomalous coastal sea levels in NOAA high priority areas</i> Principal Investigator, <b>NOAA CPO</b>	\$286,932
2016-19	<i>The Development of a Water Clarity Index for the Great Lakes as a Climate Indicator</i> Principal Investigator, <b>NASA</b> (Award NNX16AH12G)	\$565,024
2015-16	<i>Detecting and forecasting Climate Effects on Spatial Patterns of Biodiversity and Productivity in West Coast Sanctuaries: A Collaboration with the Marine Biodiversity Observational Network (MBON)</i> Principal Investigator, <b>NOAA</b> (Contract EA-133C-15-SE-1454)	\$40,000
2014-15	<i>A synoptic climatological assessment of atmospheric impacts on short-term sea-level variability and its impacts along the mid-Atlantic coast</i> Principal Investigator, <b>NOAA</b> (Contract EA-133C-14-SE-3728)	\$25,000
2015	Climate resilience through vacant land strategies and land use adaptation in Cleveland Investigator, <b>Kresge Foundation</b> (PI T. Schwartz, Kent State)	\$100,000
2013-15	<i>Development of a water clarity index for the Southeastern US as a climate indicator</i> Principal Investigator, <b>NASA</b> (Award NNX13AN31G)	\$196,104
2009-13	Climate variability/ change and the risks for a spectrum of diseases Co-Investigator, <b>CDC</b> (PI S. Lin, New York State Department of Health)	*\$150,000
2008-10	<i>Climatological, epidemiological, and public health justification of a heat wave health warning system for Moldova</i> US Principal Investigator, <b>US Civilian Research and Development Foundation</b>	*\$49,000
2008-11	<i>A Spatial Synoptic Classification Approach to Projected Heat Vulnerability in California under Future Climate Change Scenarios</i> Principal Investigator, <b>California Air Resources Board</b>	\$191,553
2005-10	<i>Track 1, GK-12: Inquiry-based approaches to Earth System Science</i> Co-Investigator, <b>NSF</b> (PI M. Munro-Stasiuk)	\$1,914,276
2008-09	<i>Monitoring Agricultural Sewage Sludge, Ohio</i> Co-Investigator, <b>USDA</b> (PI M. Munro-Stasiuk)	*\$70,000
2006-08	<i>Monitoring biosolids in Ohio</i> Co-Investigator, <b>USDA</b> (PI M. Munro-Stasiuk)	*\$50,000
2004-06	Climatic influences on the spatial and temporal variability of aerosols over North America Principal Investigator, <b>NSF</b>	\$99,972

2003-05	<i>Municipal response and public perception of heat-health watch-warning systems: An evaluation of effectiveness</i> Principal Investigator, <b>EPA</b>	\$47,114
2000-04	<i>Development of Heat Watch Warning Systems: Implementation and Intervention</i> Principal Investigator of sub-contract, <b>NOAA</b> (PI L. Kalkstein, U. Delaware)	*\$82,500
2001	Spatial variability of heat vulnerability across Ohio Summer research and creative activity investigator, <b>Kent State University</b>	\$6,500

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## PROFESSIONAL SERVICE

### DEPARTMENT OF GEOGRAPHY, KENT STATE UNIVERSITY

Faculty Advisory Committee 2004-14  
 Departmental Handbook Committee 2003-2004  
 Chair, Space Allocation Committee 2003-2010  
 Faculty Advisor, Gamma Theta Upsilon 2003-2012  
 Colloquium Coordinator 2002-2005  
 Library Liaison 2001-2004  
 Climatology Minor Coordinator 2000-

### KENT STATE UNIVERSITY

Provost Advisory Board 2013  
 Dean's Review Committee 2012  
 Dean Search Committee 2013  
 Internal Reviewer, Department of Finance 2008

### EXTERNAL

Mentor and Judge, Believe in Ohio 2015  
 Proposal Review Panelist, NOAA 2015  
 External Reviewer, Southern Illinois University 2015  
 Program Chair and Local Organizing Chair, 20<sup>th</sup> International Congress on Biometeorology 2014  
 Planning Committee Meeting, East Lakes Division of the Association of American Geographers 2015  
 Director Climate Specialty Group, Association of American Geographers 2012-14  
 Member Health Canada Heat Alert and Response Systems advisory committee 2008-11  
 External Reviewer, Ball State University 2008, 14  
 Program Committee, 18th Conference on Biometeorology and Aerobiology 2008  
 Assistant Coordinator, Northern Ohio Teacher's Weather Summit, National Weather Association 2006  
 Program Committee Chair, 17th Conference on Biometeorology and Aerobiology 2006  
 Scientific and Technological Activities Commission Biometeorology and Aerobiology Committee,  
 American Meteorological Society 2002-05  
 Expert Team Advisor Operational Heat Health/Warning Systems Committee, World Meteorological  
 Organization 2002-09

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## STUDENT ADVISEMENT

All students Department of Geography, Kent State, unless noted

### GRADUATED Ph.D. STUDENTS (7)

- Michael Allen 2014 *An Evaluation of Seasonality through Four Delineation Methods: A Comparison of Mortality Responses and the Relationship with Anomalous Temperature Events*
- Bradley Austin 2014 *Perspectives of weather and sensitivities to heat: Social media applications for cultural climatology*
- Thomas Ballinger 2015 *A synoptic climatological assessment of the relationship between Arctic sea-ice variability and climate anomalies over North America*
- Douglas Cripe 2005 *The effects of the Pacific North American and North Atlantic Oscillation teleconnections upon Great Lake-effect snowfall (co-advisor)*
- Cameron Lee 2014 *The Development of a Gridded Weather Typing Classification Scheme*
- Jason Senkbeil 2007 *The Spatial and Temporal Role of Irrigation on Daily Warm Season Precipitation in the Great Plains 1950 - 2005*
- Jeremy Spencer 2015 *The Geography of Hypothermia in the United States: An Analysis of Mortality, Morbidity, Thresholds, and Messaging*

### GRADUATED M.A. STUDENTS (10)

- Michael Allen 2010 *The impact of winter weather on human health: a regional approach to understanding vulnerability in the United States*
- Paul Butke 2006 *The relationship between weather and violent crime in Cleveland, Ohio*
- Timothy Dolney 2003 *The relationship between ambulance response calls for the city of Toronto, Ontario, Canada and extreme heat*
- Jason Haley 2011 *Climatology of Freeze-Thaw Days in the Conterminous United States: 1982-2009*
- Joseph Harwood 2008 *Delineation and GIS Mapping of Urban Heat Islands Using Landsat ETM Imagery (co-advisor)*
- Wesley Kent 2004 *The impact of cloud cover on major league baseball*
- Wayne Kline 2009 *Climatic factors associated with the rapid wintertime increase in cloud cover across the Great Lakes region*
- Cameron Lee 2010 *The relationship of large-scale atmospheric circulation patterns to tornado frequency and the impacts of climate change*
- Vanessa Myers 2009 *Evaluation of real-time weather map discussions in the middle school classroom*
- Candace Olszak 2012 *The Impacts of Weather on a Mid-American Conference University Football Team and Players' Perceptions Regarding Weather*
- E. Tyler Smith 2017 *The Characteristics of Cold Air Outbreaks in the Eastern United States and the Influence of Atmospheric Circulation Patterns*

### PH.D. COMMITTEES SERVED ON (15)

BJ Arnold 2014, Kate Bassil 2008 (U. Toronto), Mark Breidenbaugh 2008 (Biology, Kent State), Kevin Butler 2008, Catherine Cartwright 2015, Jill Coleman 2005 (Ohio State), Timothy Dolney 2007, Christa Haney (Geosciences, Mississippi State) 2017, David Hollinger 2011, John Kirk 2017, Marius Paulikas 2015, Melissa Phillips 2015, Munshi Rahman 2015, Kakoli Saha 2011, Andrew Shears 2011, Aida Soim (U. Albany) 2014, Lee Stocks 2010

### MASTERS COMMITTEES SERVED ON (21)

John Barr 2011, Jennifer Burrell 2011, Buddy Candela 2016 (Liberal Studies, Kent State), Don Colley 2012, Jennifer Edwards 2013, Brian George 2003, Rebecca Hoffman 2013, Sam Henkin 2014, Scott Hutka 2010, Sungbae Jeon 2003, Debra Kellar 2010, Bryce Kastelein 2014, Johnathan Kirk 2013, Bethaney Krzys 2008, Christina

Longo 2011, Christopher Nitzsche 2013, Melissa Phillips 2011, Jared Scott 2001 (U. Delaware), Rachel Will 2014, Carmen Woodhall 2007, Siyao Xu 2009, Chaoqing Yu 2001

### CURRENT ADVISEES

Md. Rafiq Islam, Ryan Adams, Erik Smith

### CURRENT COMMITTEES

Haley Wachholz, William Pace, Md. Sariful Islam, Zheyang Wang

2017 College of Arts and Sciences Award for International Student Engagement

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## COURSES TAUGHT

*Applied Climatology* 4x

*Climate and Life*

*Climate Change and its Impacts* 8x

*Earth System Science (Workshop)* 5x

*Field Experience* 4x

Iceland, Peru, Costa Rica, Portugal

*Fundamentals of Meteorology* 5x

*Geography of Europe* 8x

*Geography of Latin America and the Caribbean* 2x

*Geography of the United States & Canada* 3x

*Observing Earth from Space workshop* 5x

*Physical Geography* 2x

*Principles of Climatology* 9x

*Research & Presentation of Geographic Data* 4x

*Statistical Methods in Geography* 7x

*World Geography* 11x

2007 College of Arts and Sciences Distinguished Teacher Award

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## PUBLICATIONS

*Red papers are highly cited and included in h-index (h=23); gray papers are non-peer reviewed material*

2017 Sheridan SC, Allen MJ. Sixty years of the International Journal of Biometeorology. *International Journal of Biometeorology*, in press.

Perkins DR, Vanos J, Fuhrmann C, Allen MJ, Knight D, Lee CC, Lees A, Leung A, Lucas R, Mehdipoor H, Nascimento ST, Sheridan SC, Spencer JM. Enhancing the Teaching and Learning of Biometeorology in Higher Education. *Bulletin of the American Meteorological Society*, in press.

Cervený R, et al., including Sheridan SC. WMO Assessment of Weather and Climate Mortality Extremes: Lightning, Tropical Cyclones, Tornadoes, and Hail. *Weather Climate and Society*, in press.

Sheridan SC, Lee CC, Pirhalla DE, Ransibrahmanakul V. Using Self-Organizing Maps to Assess Synoptic Meteorological Influence on Short-Term Sea-Level Fluctuations and Nuisance Flood Incidence along the Mid-Atlantic Coast of the USA. *Regional Environmental Change*, in press.

2016 Sheridan SC, Dixon PG. Spatiotemporal trends in human vulnerability and adaptation to heat across the United States. *Anthropocene*, in press.

Sailor D, Shepherd M, Sheridan SC, Stone B, Kalkstein LS, Russell A, Vargo J, Andersen T. Improving heat-related health outcomes in an urban environment with science-based policy. *Sustainability*, 8, 1015.

Pirhalla DE, Sheridan SC, Lee CC, Barnes BB, Ransibrahmanakul V, Hu C. Water clarity patterns in South Florida coastal waters and their linkages to synoptic-scale wind forcing. *Satellite Oceanography and Meteorology*, in press.

- Kirk JP, Sheridan SC, Schmidlin TW. Synoptic climatology of the early 21<sup>st</sup> century drought in the Colorado River Basin and relationships to reservoir water levels. *International Journal of Climatology*, in press.
- Lee, C.C., Sheridan, S.C., Barnes, B.B., Hu, C., Pirhalla, D.E., Ransibrahmanakul, V., Shein, K. The development of a non-linear auto-regressive model with exogenous input (NARX) to model climate-water clarity relationships: reconstructing an historical water clarity index for the coastal waters of the southeastern US. *Theoretical and Applied Climatology*, in press.
- Nayak, S et al., including Sheridan SC. Surveying Local Health Departments and County Emergency Management Offices on Cooling Centers as a Heat Adaptation Resource in New York State. *Journal of Community Health*, in press.
- Allen MJ, Sheridan SC. Evaluating Changes in Season Length, Onset, and End Dates across the United States (1948 – 2012). *International Journal of Climatology*, 36, 1268-77.
- Allen MJ, Sheridan SC. Mortality risks during extreme temperature events (ETEs) using a distributed lag non-linear model. *International Journal of Biometeorology*, in press, 11 pp. DOI 10.1007/s00484-015-1117-4.
- Allen MJ, Sheridan SC. Spatio-temporal changes in heat waves and cold spells: an analysis of 55 U.S. cities. *Physical Geography*, in press, 21 pp. DOI 10.1080/02723646.2016.1184078
- Ballinger TJ, Sheridan SC. Sea ice impacts on polar surface weather types in the North American Arctic. *Climate Research*, 67, 117-134.

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- 2015 Sheridan SC, Allen MJ. Changes in the frequency and intensity of extreme temperature events and human health concerns. *Current Climate Change Reports*, 8 pp., DOI 10.1007/s40601-015-0017-3.
- Ballinger TJ, Sheridan SC. Regional atmospheric patterns and the delayed sea-ice freeze-up in the western Arctic. *Climatic Change*, 131, 229-243.
- Lee CC, Sheridan SC. Synoptic Climatology: An Overview. In *Reference Module in Earth Systems and Environmental Sciences*, Elsevier. DOI 10.1016/B978-0-12-409548-9.09421-5.
- Phillips MCK, Cinderich AB, Burrell JL, Ruper JL, Will RG, Sheridan SC. The effect of climate change on natural disasters: a college student perspective. *Weather Climate and Society*, 7, 60-68.
- Pirhalla DE, Sheridan SC, Ransi V, Lee CC. Assessing Cold-snap and Mortality Events in South Florida Coastal Ecosystems: Development of a Biological Cold Stress Index using Satellite SST and Weather Pattern Forcing. *Estuaries and Coasts*, 38, 2310-2322.
- Spencer JM, Sheridan SC. Web-based hypothermia information: a critical assessment of Internet resources and a comparison to peer-reviewed literature. *Perspectives in Public Health*, 135, 85-91.
- 
- 2014 Sheridan SC. Heat-related mortality in the 21<sup>st</sup> century. In *Our Changing Climate: introduction to Climate Science*, American Meteorological Society, C. Kauffman (lead author), 466-468.
- Sheridan SC, Hu C, Lee CC, Barnes BB, Pirhalla D, Ransi V, Shein KA. Development of a Water Clarity Index for the Southeastern US as a Climate Indicator. *AGU Fall Meeting Abstracts 1*, 0407.
- Sheridan SC, Koppe C, Kalkstein LS. Heat Health Watch Warning Systems: Definition and Methodology. In *Heat Waves and Health: Guidance on Warning System Development*, World Meteorological Organization, G. McGregor (ed).
- Sheridan SC, Lee CC. Synoptic Climatology. In *Oxford Bibliographies*, Oxford University Press. DOI 10.1093/OBO/9780199874002-0088.
- Sheridan SC, Lin S. Assessing variability in the impacts of heat on health outcomes in New York City over time, season, and heat-wave duration. *EcoHealth*, 11, 512-525.
- Allen MJ, Sheridan SC. High-mortality days during the winter season: comparing meteorological conditions across 5 US cities. *International Journal of Biometeorology*, 58, 217-225.

- Ballinger TJ, Sheridan SC. Associations between circulation pattern frequencies and sea ice minima in the western Arctic. *International Journal of Climatology*, 34, 1385-1394.
- Ballinger TJ, Sheridan SC, Hanna E. Resolving the Beaufort Sea High using synoptic climatological methods. *International Journal of Climatology*, 34, 3312-3319.
- Dixon PG, Sinyor M, Schaffer A, Levitt A, Haney CR, Ellis KN, Sheridan SC. Association of Weekly Suicide Rates with Temperature Anomalies in Two Different Climate Types. *International Journal of Environmental Research and Public Health*, 11, 11627-11644.
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- 2013 Sheridan SC, Pirhalla DP, Lee CC, Ransi V. Evaluating linkages of weather patterns and water quality responses in South Florida using a synoptic climatological approach. *Journal of Applied Meteorology and Climatology*, 52, 425-438.
- Corobov R, Sheridan SC, Ebi KL, Opopol N. Warm season temperature-mortality relationships in Chisinau (Moldova). *International Journal of Atmospheric Sciences*, 2013, ID 346024, 9 pp.
- Corobov R, Sheridan SC, Opopol N, Ebi KL. Heat-related mortality in Moldova: The summer of 2007. *International Journal of Climatology*, 33, 2551-2560.
- Shrestha SC, Hsu WH, Hwang SA, Sheridan SC, Lin S. 2013. Association between Lyme disease and weather types in New York State. *American Journal of Epidemiology*, 177, S64.
- Vanos JK, Cakmak S, Bristow C, Brion V, Tremblay N, Martin SL, Sheridan SC. 2013. Synoptic weather typing applied to air pollution mortality among the elderly in 10 Canadian cities. *Environmental Research*, 126, 66-75.
- 
- 2012 Sheridan SC, Allen MJ, Lee CC, Kalkstein LS. Future heat vulnerability in California Part II: Projecting future heat-related mortality. *Climatic Change*, 115, 321-326.
- Sheridan SC, Lee CC. Synoptic climatology and the analysis of atmospheric teleconnections. *Progress in Physical Geography*, 36, 548-557.
- Sheridan SC, Lee CC, Allen MJ, Kalkstein LS. Future heat vulnerability in California Part I: Projecting future weather types and heat events. *Climatic Change*, 115, 291-309.
- Insaf TZ, Lin S, Sheridan SC. Climate trends in indices for temperature and precipitation across New York State, 1948–2008. *Air Quality, Atmosphere, and Health*, 6, 247-257.
- Lee CC, Sheridan S.C., Lin S. Relating weather types to asthma-related hospital admissions in New York State. *EcoHealth*, 9, 424-439.
- 
- 2011 Sheridan SC, Kalkstein LS, Kalkstein AJ, Greene JS. 2011. Heat-related Mortality and Heat Watch-warning Systems in the United States: Recent Developments. *Epidemiology*, 22, S13.
- Sheridan SC, Lee CC. The self-organizing map in synoptic climatological research. *Progress in Physical Geography*, 35, 109-119.
- Kent WP, Sheridan SC. The impact of cloud cover on major league baseball. *Weather Climate and Society*, 3, 7-15.
- Lee CC, Sheridan SC. A Six-Step Approach to Developing Future Synoptic Classifications based on GCM Output. *International Journal of Climatology*, 32, 1792-1802.
- 
- 2010 Sheridan SC, Kalkstein AJ. Seasonal variability in heat-related mortality across the United States. *Natural Hazards*, 55, 291-305.
- Sheridan SC, Lee CC. Synoptic climatology and the general circulation model. *Progress in Physical Geography*, 34, 101-109.
- Butke PS, Sheridan SC. An analysis of the relationship between weather and aggressive crime in Cleveland, Ohio. *Weather, Climate, and Society*, 2, 127-139.
- Corobov R, Sheridan SC, Overcenco A, Terinte N. 2010. Air temperature trends and extremes in Chisinau (Moldova) as evidence of climate change. *Climate Research*, 42, 247-256.

- Hajat S, Sheridan SC, Allen MJ, Pascal M, Laaidi K, Yagouti A, Bickis U, Tobias A, Bourque D, Armstrong BG, Kosatsky T. Which days of hot weather are identified as dangerous by Heat-Health Warning Systems? A comparison of the predictive capacity of different approaches. *American Journal of Public Health*, 100, 1137-1144.
- Hayhoe K, Sheridan SC, Kalkstein LS, Greene JS. Climate change, heat waves, and mortality projections for Chicago. *Journal of Great Lakes Research*, 36, 65-73.
- Lee DG, Choi YJ, Kim KR, Byon JY, Kalkstein LS, Sheridan SC. Development of Heat-Health Warning System Based on Regional Properties between Climate and Human Health. *Climate Change Research*, 1, 109-120.
- 
- 2009 Sheridan SC, Kalkstein AJ, Kalkstein LS. Trends in heat-related mortality in the United States, 1975-2004. *Natural Hazards*, 50, 145-160.
- Hedley ML, Czajkowski K, Struble J, Benko T, Shellito B, Sheridan SC, Munro-Stasiuk MJ.. An International Polar Year partnership to study Earth's materials. *The Science Teacher*, 27-33.
- Kalkstein LS, Koppe C, Orlandini S, Sheridan SC, Tomic K. Health impacts of heat: present realities and potential impacts of a climate change. In *Distributional Impacts of Climate Change and Natural Disasters: Concepts and Cases*, Edward Elgar, M. Ruth and M. Ibarraran (eds.), 69-81.
- Kalkstein LS, Sheridan SC, Kalkstein AJ. Heat Health Warning Systems: Development, Implementation, and Intervention Activities. In *Biometeorology for Adaptation to Climate Variability and Change*, Springer-Verlag, 33-48.
- 
- 2008 Sheridan SC, Kalkstein AJ, Kalkstein LS. Trends in heat-related mortality in the United States, 1975-2004. *Proceedings, International Congress on Biometeorology*, 4pp.
- Sheridan SC, Power HC, Senkbeil JC. A further analysis of the spatio-temporal variability in aerosols across North America: incorporation of lower tropospheric (850-hPa) flow. *International Journal of Climatology*, 28, 1189-1199.
- Hellman J, and other authors, including Sheridan SC. Ch.4 – Health. In *Climate Change and Chicago*, Chicago Climate Action Plan, K. Hayhoe and D. Webbles (lead authors).
- Kalkstein LS, Sheridan SC, Au YC. A new generation of heat health warning systems for Seoul and other major Korean cities. *Meteorological Technology and Policy*, 62-68.
- Knight DB, Davis RE, Sheridan SC, Hondula DM, Sitka LJ, Deaton M, Lee TR, Gawtry SD, Stenger PJ, Mazzei F, Kenny BP. Increasing frequencies of warm and humid air masses over the conterminous United States from 1948 to 2005. *Geophysical Research Letters*, 35, L10702.
- Lambert J, and other authors, including Sheridan SC. SATELLITES: Students and Teachers Exploring Local Landscapes to Interpret the Earth from Space. *Journal of Geoscience Education*, 56, 383-393.
- Munro-Stasiuk MJ, Sheridan SC. Localizing geographic concepts through middle- and high-school outreach. *Papers of the Applied Geography Conference*, 182-188.
- 
- 2007 Sheridan SC. A survey of public perception and response to heat warnings across four North American cities: an evaluation of municipal effectiveness. *International Journal of Biometeorology*, 52: 3-15.
- Sheridan SC, Kalkstein LS. Health and Changing Climate. In *Climate Change and Variation: A Primer for Teachers*, National Council for Geographic Education, W.A. Dando (ed.), 103-110.
- Sheridan SC, contributor to DSP Montreal. Heat Health Warning System Workshop – Montreal, Quebec, Canada. Direction de Santé Publique, 147 pp.
- Kalkstein AJ, Sheridan SC. The social impacts of the heat-health watch/warning system in Phoenix, Arizona: Assessing the perceived risk and response of the public. *International Journal of Biometeorology*, 52: 43-55.
- McGregor GR, Bower D, Hannah D, Sheridan SC. Development of a Spatial Synoptic Classification Scheme for Western Europe. *International Journal of Climatology*, 27, 2017-2040.



- Senkbeil JC, Rodgers JC, Sheridan SC. The sensitivity of tree growth to air mass variability and the Pacific Decadal Oscillation in coastal Alabama. *International Journal of Biometeorology*, 51, 483-492.
- 
- 2006 Sheridan SC. Public perception and response to extreme heat. *Bulletin of the American Meteorological Society*, 87, 884-886.
- Dolney TJ, Sheridan SC. The relationship between extreme heat and ambulance calls for the city of Toronto, Ontario, Canada. *Environmental Research*, 101, 94-103.
- Power HC, Sheridan SC, Senkbeil JC. A further evaluation of the spatial and temporal variability of aerosols across North America: influence of lower tropospheric flow. *Eos Trans. AGU* 87, Abs. A13D-0956.
- Power HC, Sheridan SC, Senkbeil JC. Synoptic climatological influences on the spatial and temporal variability of aerosols over North America. *International Journal of Climatology*, 26, 723-741.
- Senkbeil JC, Sheridan SC. A post-landfall hurricane classification system for the United States. *Journal of Coastal Research*, 22, 1025-1034.
- Witter DL, and other authors, including Sheridan SC. Bringing Earth Science to the K-12 Classroom: Implementation and Impacts of a Five-Day Professional Development Workshop for Teachers. *Eos Trans. AGU* 87, Abs. ED43E-0959.
- 
- 2005 Hayhoe K, Kalkstein LS, Miller N, Sheridan SC, Jin J. Climate impacts on extreme heat and heat-related mortality in California. In *Public Health Related Impacts of Climate Change in California*, Lawrence Berkeley National Laboratory, D. Drechsler and M. Motallebi (eds.), 149 pp.
- Rainham DGC, Smoyer-Tomic KE, Sheridan SC, Burnett RT. Synoptic weather patterns and modification of the association between air pollution and human mortality. *International Journal of Environmental Health Research*, 15, 347-360.
- 
- 2004 Sheridan SC, Kalkstein LS. Progress in Heat Watch-Warning System Technology. *Bulletin of the American Meteorological Society*, 85, 1931-1941.
- Sheridan SC. *Heat Waves: Risks and Responses*. In *Health and Global Environmental Change* (Series No. 2), World Meteorological Organization, C. Koppe, S. Kovats, G. Jendritzky, and B. Menne (lead authors), 124 pp.
- Sheridan SC. The development of heat-warning systems for cities worldwide. In *WorldMinds: Geographical Perspectives on 100 Problems*, Association of American Geographers, D.G. Janelle, B. Warf, and K. Hansen (eds.), 487-492.
- Sheridan SC, Kalkstein LS. A synoptic Climatological approach to separate weather- and pollution-induced impacts on human mortality. *Epidemiology*, 15, S40.
- Hancox JG, Sheridan SC, Feldmann SR, Fleischer AB. Seasonal variation of dermatologic disease in the USA: a study of office visits from 1990 to 1998. *International Journal of Dermatology*, 43, 6-11.
- Hayhoe K, and other authors, including Sheridan SC. Climate Change, Extreme Heat, and Heat Mortality in California. *Proceedings of the National Academy of Science*, 101, 12422-12427.
- Taha H, Kalkstein LS, Sheridan SC, Wong E. The potential of urban environmental control in alleviating heat-wave health effects in five U.S. regions. *Proceedings, 16th Conference on Biometeorology and Aerobiology*, American Meteorological Society, 4 pp.
- 
- 2003 Sheridan SC. North American weather-type frequency and teleconnection indices. *International Journal of Climatology*, 23, 21-45.
- Sheridan SC, Dolney TJ. Heat, mortality, and level of urbanization: Measuring vulnerability across Ohio, USA. *Climate Research*, 24, 255-265.
- 
- 2002 Sheridan SC. The Redevelopment of a Weather-Type Classification Scheme for North America. *International Journal of Climatology*, 22, 51-68.
-

- Sheridan SC. Heat-related Mortality: A rural problem too. *Bulletin of the American Meteorological Society*, 83, 1466-1467.
- Sheridan SC. Rural-Urban Differences in Heat-Related Mortality in Ohio. *Proceedings, 15<sup>th</sup> Conference on Biometeorology and Aerobiology*, American Meteorological Society, 218-220.
- Sheridan SC. Using a Synoptic Classification Scheme to Assess Rural-Urban Differences in Heat Vulnerability. *Proceedings, 13<sup>th</sup> Conference on Applied Climatology*, American Meteorological Society, 3 pp.
- Sheridan SC, Kent WP, Kalkstein LS. The development of the new Toronto heat-health alert system. *Proceedings, Urban Heat Island Summit*, Toronto, Ontario, 5 pp.
- Hughes C, Sheridan SC. Turning up the heat. *Bulletin of the American Meteorological Society*, 83, 660.
- Kent WP, Sheridan SC, Kalkstein LS. The development of a synoptic-based heat-health alert system for Toronto. *Proceedings of the 15th Conference on Biometeorology and Aerobiology*, American Meteorological Society. 124-125.
- 
- 2001 Fano V, Michelozzi P, Kalkstein LS, Sheridan SC, Forastiere F, Barca A, Perucci C. Sistema sperimentale di allerta/allarme della popolazione anziana in previsione delle ondate di calore a Roma (Experimental alert and alarm system for the elderly for summer heat waves in Rome). *Proceedings, 15<sup>th</sup> Annual Meeting of the Italian Epidemiological Association*, Venice, Italy, 412.
- 
- 2000 Sheridan SC, Kalkstein LS, Scott JM. An evaluation of the variability of air mass character between urban and rural areas. In *Biometeorology and Urban Climatology at the turn of the Millennium*, World Meteorological Organization, 487-490.
- Llanos PD, Kalkstein LS, Sheridan SC. The showcase projects on heat/health warning systems: international collaboration within the climate agenda. *Proceedings, 2nd Symposium on Environmental Applications*, American Meteorological Society, 57-60.
- 
- 1999 Sheridan SC, Kalkstein LS. 1999. Redevelopment of a spatial synoptic classification for year-round application. *Proceedings, 11th Conference on Applied Climatology*, American Meteorological Society, 381-382.
- Duncan K, Guidotti T, Cheng W, Naidoo K, Gibson G, Kalkstein LS, Sheridan SC, Toews D, MacEachern S, Last J.. Canadian Country Study: Impacts and Adaptation, Health Sector. In *Canada Country Study: Impacts and Adaptation*. Environment Canada, 522-532.
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- Sheridan SC, Kalkstein LS. Health watch/warning systems in urban areas. *World Resource Review*, 10, 375-383.
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- Sheridan SC. Using a synoptic classification system to assess climate trends and variability in Texas. *Proceedings, 10th Conference on Applied Climatology*, American Meteorological Society, 287-289.
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- 1995 Griffiths JF, Sheridan SC. Weather. 1996-1997 *Texas Almanac*, Mary G. Ramos, Ed., The Dallas Morning News, Inc., Dallas, Texas, 102-118.
- Griffiths JF, Sheridan SC, Gleason KL. *Texas Weather: A Review of 1994*. Office of the State Climatologist, Texas A&M University, College Station, Texas, 124 pp.
- Griffiths JF, Walters LE, Sheridan SC. *Texas Weather: Pre-1880*. Office of the State Climatologist, Texas A&M University, College Station, Texas, Monograph No. 4, 69 pp.
- 
- 1994 Griffiths JF, Sheridan SC, Peterson RD. *Texas Weather: A Review of 1993*. Office of the State Climatologist, Texas A&M University, College Station, Texas, 107 pp.

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## PRESENTATIONS

*Red presentations are invited; only lead presentations listed unless noted*

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### 2017 Recent climate change science and policy

*Colloquium, Umea University UMEA, SWEDEN*

#### The Way Forward in Climate Change Policy

*Keynote speaker, Institute of Science and the Environment, Mansfield University MANSFIELD, PENNSYLVANIA*

#### Using self-organizing maps to assess atmospheric circulation and short-term sea-level fluctuations

*Annual Meeting of the Association of American Geographers BOSTON, MASSACHUSETTS*

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### 2016 Spatiotemporal trends in human vulnerability to the heat across the US

*Fall Meeting, American Geophysical Union SAN FRANCISCO, CALIFORNIA*

#### Using Self-Organizing Maps to Assess Atmospheric Circulation Along the Eastern Seaboard of the US, and Its Relationship with Short-Term Sea-level Fluctuations

*Applied Geography Conference LOUISVILLE, KENTUCKY*

#### Temporal trends in heat-related mortality

*Annual Meeting, East Lakes Division of the Association of American Geographers MARQUETTE, MICHIGAN*

#### *Discussant*

*International Society of Biometeorology Students and New Professionals Workshop NORFOLK, VIRGINIA*

#### Changes in the heat-health relationship across the USA, 1975-2010: adaptation and its limits

*Adaptation Futures ROTTERDAM, NETHERLANDS*

#### Human Vulnerability to Heat Past, Present, Future

*Colloquium, Department of Geography, University of Georgia ATHENS, GEORGIA*

#### Heat-related mortality in the US: Time trends through 2010

*Annual Meeting of the Association of American Geographers SAN FRANCISCO, CALIFORNIA*

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### 2015 Biometeorological warnings: Perception and response

*Expert Meeting for the Implementation of Bioclimatic and Biometeorological Forecasts in*

*Latin America and the Caribbean HAVANA, CUBA*

#### Temporal trends in heat-related mortality across the United States

*Applied Geography Conference SAN ANTONIO, TEXAS*

#### Decreased rates of heat-related mortality in the US, 1975-2010

*Annual Meeting, East Lakes Division of the Association of American Geographers KENT, OHIO*

#### Heat-related mortality in the US: Time trends through 2010

*Annual Meeting, International Society for Environmental Epidemiology SÃO PAULO, BRAZIL*

#### Decreased rates of heat mortality: have we already adapted to climate change?

*Annual Meeting of the Association of American Geographers CHICAGO, ILLINOIS*

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### 2014 Development of a water clarity index for the southeastern US as a climate indicator

*Fall Meeting, American Geophysical Union SAN FRANCISCO, CALIFORNIA*

#### Temporal trends in heat-related mortality and morbidity

*Colloquium, New York State Department of Health ALBANY, NEW YORK*

#### International Journal of Biometeorology: Report; Updated trend analysis of heat vulnerability in the United States using a Distributed Lag Nonlinear Model

*International Congress of Biometeorology CLEVELAND, OHIO*

#### Web-based hypothermia information: a critical assessment of Internet resources and a comparison to peer-reviewed literature (J. Spencer, lead presenter)

*Webinar, Environment Canada*

#### The Spatial Synoptic Classification and Applications

*Speaker, International Society of Biometeorology Students and New Professionals Workshop VINDELN, SWEDEN*

- The reconstruction of historical Spatial Synoptic Classification types across North America  
*Annual Meeting of the Association of American Geographers* TAMPA, FLORIDA
- Projecting the uncertainty in climate change and its impacts: a case study of heat-related mortality in California  
*Colloquium, New Frontiers Series, University of Toronto-Scarborough* TORONTO, ONTARIO
- 
- 2013 The Geography of Heat Vulnerability  
*Keynote speaker, Annual Meeting of the Pennsylvania Geographic Society* PITTSBURGH, PENNSYLVANIA
- Projecting the uncertainty in climate change and its impacts: a case study of heat-related mortality in California  
*Colloquium, Department of Geosciences, University of Akron* AKRON, OHIO
- The heat-health relationship in New York City: an assessment of morbidity and mortality data using distributed-lag models with a synoptic climatological approach  
*Annual Meeting of the European Meteorological Society* READING, UNITED KINGDOM
- Evaluating the different responses in morbidity and mortality to heat events across New York State  
*Annual Meeting of the Association of American Geographers* LOS ANGELES, CALIFORNIA
- Climate Change  
*Symposium speaker, Cleveland Botanical Garden* CLEVELAND, OHIO
- Global Heat Events of 2012; Heat Events in the US during 2012; Evaluating the different responses in morbidity and mortality to heat events across New York State  
*Annual Meeting of the American Meteorological Society* AUSTIN, TEXAS
- 
- 2012 A Comparison of Morbidity and Mortality Responses to Heat Events in New York State  
*Annual Meeting of the International Society for Environmental Epidemiology* COLUMBIA, SOUTH CAROLINA
- Climate Change and Health in the Great Lakes Region  
*Workshop participant, Translating Science / Telling Stories- What we talk about when we talk about Climate Change* CLEVELAND, OHIO
- Projections of Heat Vulnerability in California over the 21st Century Using a Synoptic Climatological Approach  
*Annual Meeting of the Association of American Geographers* NEW YORK, NEW YORK
- Global Heat in 2011  
*Annual Meeting of the American Meteorological Society* NEW ORLEANS, LOUISIANA
- 
- 2011 Projecting future heat vulnerability in California using a synoptic climatological approach  
*International Congress of Biometeorology* AUCKLAND, NEW ZEALAND
- Climate change and the science of uncertainty  
*Climate Change: Impacts on Emergency Management and Homeland Security Symposium* AKRON, OHIO
- Discussant*  
*Measuring the costs of climate change to US public health, Union of Concerned Scientists* BOSTON, MASSACHUSETTS
- A synoptic climatological assessment of heat-related hospital admissions in New York State  
*Annual Meeting of the Association of American Geographers* SEATTLE, WASHINGTON
- Excessive heat and health  
*Workshop participant, Climate Prediction Applications Science Workshop* DES MOINES, IOWA
- A Spatial Synoptic Classification Approach to Projected Heat Vulnerability in California under Future Climate Change Scenarios  
*California Air Resources Board* SACRAMENTO, CALIFORNIA
- 
- 2010 The Scientific Basis of Heat Watch Warning Systems  
*Korean Meteorological Administration* SEOUL, SOUTH KOREA
- Heat-related mortality and heat watch-warning systems in the United States: Recent developments  
*International Society for Environmental Epidemiology* SEOUL, SOUTH KOREA
- Communication, intervention, and mitigation activities in heat watch-warning systems

- National Center for Public Health* CHISINAU, MOLDOVA
- The season cycle of warm weather-related mortality across the US  
*Annual Meeting of the Association of American Geographers* WASHINGTON, DISTRICT OF COLUMBIA
- The incorporation of seasonal and temporal variability in mortality response to hot weather into operational heat watch-warning systems  
*Annual Meeting of the American Meteorological Society* ATLANTA, GEORGIA
- 
- 2009 The seasonality of warm weather mortality across the United States  
*Applied Geography Conference* BATON ROUGE, LOUISIANA
- Adaptation  
*Speaker, NCAR Workshop on Climate and Health Topic: Effects of Heat Waves and Air Pollution* BOULDER, COLORADO
- 
- 2008 Temporal trends in heat-related mortality across the US  
*International Congress of Biometeorology* TOKYO, JAPAN
- Temporal variability in mortality response to hot weather across US metropolitan areas, 1975-2004  
*Conference on Biogeosciences* ORLANDO, FLORIDA
- The spatial synoptic classification: new advances and the creation of climate zones  
*Annual Meeting of the Association of American Geographers* BOSTON, MASSACHUSETTS
- Older adults and the heat  
*Adult Development and Well-being program, Kent State University* KENT, OHIO
- GK-12 in Iceland  
*NSF Graduate Teaching Fellows in K-12 Education Project Meeting* WASHINGTON, DISTRICT OF COLUMBIA
- Discussant  
*The Public Health Response to Climate Change: Effective Health Communication and Marketing* FAIRFAX, VIRGINIA
- 
- 2007 Climate change and health: global and local impacts  
*Metro Parks, Serving Summit County* AKRON, OHIO
- Heat warning perception and communication  
*Workshop participant, Excessive Heat: Confronting climate change, vulnerability, and urbanization by improving heat-health services, mitigation strategies, and communication* PHOENIX, ARIZONA
- Forecasting and mitigating heat-related mortality  
*Department of Earth Sciences, California University of Pennsylvania* CALIFORNIA, PENNSYLVANIA
- Forecasting and mitigating heat-related mortality  
*Department of Biological Sciences, Kent State University* KENT, OHIO
- A further evaluation of the spatial and temporal variability of aerosols across North America: influence of lower tropospheric flow  
*Annual Meeting of the Association of American Geographers* SAN FRANCISCO, CALIFORNIA
- 
- 2006 Global climate change  
*Kent Environmental Forum* KENT, OHIO
- Heat vulnerability and HWWS development in smaller locations  
The development and implementation of synoptic heat-watch warning systems  
*Participant, Heat-Health Watch-Warning System Workshop, Department of Public Health* MONTREAL, QUEBEC
- A survey of the public perception and response to heat warnings and advisories  
*Conference on Biometeorology and Aerobiology* SAN DIEGO, CALIFORNIA
- \*Global climate change and human health  
*Educating Ourselves about Climate Change, Cleveland Museum of Natural History* CLEVELAND, OHIO
- \*What is global climate change?  
*Global Climate Change Symposium, John Carroll University* CLEVELAND, OHIO
- Heat warnings and the perception of vulnerability  
*Annual Meeting of the Association of American Geographers* CHICAGO, ILLINOIS
- A survey of the public perception and response to heat warnings and advisories  
*Annual Meeting of the American Meteorological Society* ATLANTA, GEORGIA
- 
- 2005 Global warming

Wolf Creek Environmental Center MEDINA, OHIO

Heat warnings and the perception of vulnerability

*Annual Meeting, East Lakes Division of the Association of American Geographers* BOWLING GREEN, OHIO

A synoptic climatological approach to separate weather- and pollution-induced impacts on human mortality

*Colloquium, Department of Geography, University of Northern Illinois* DEKALB, ILLINOIS

Operational considerations in heat watch-warning system development

The perception of and response to heat warnings

*International Congress of Biometeorology* GARMISCH, GERMANY

Separating the effects of weather and pollution on acute human mortality

*Annual Meeting of the Association of American Geographers* DENVER, COLORADO

The design and operation of heat watch warning systems

*Annual Meeting of the American Meteorological Society* SAN DIEGO, CALIFORNIA

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2004 Heat warnings: do people listen?

*East Lakes Division of the Association of American Geographers Meeting* ATHENS, OHIO

Human perception and response to heat warnings

*Conference on Biometeorology and Aerobiology* VANCOUVER, BRITISH COLUMBIA

A synoptic climatological approach to separate weather- and pollution-induced impacts on human mortality

*Conference of the International Society for Environmental Epidemiology* NEW YORK, NEW YORK

A synoptic approach to evaluating the spatial and temporal variability of aerosols across North America

*Annual Meeting of the Association of American Geographers* PHILADELPHIA, PENNSYLVANIA

Heat watch-warning systems: operational consideration and system design

*Conference on Applied Climatology* SEATTLE, WASHINGTON

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2003 Heat-health warning systems: overview

*Workshop participant, Climate Change and Adaptation Strategies for Human Health Workshop on Vulnerability to Thermal Stresses* FREIBURG, GERMANY

Watch-warning systems: scientific basis and operational principles

*Workshop participant, PHEWE Heat Stress Watch Warning System Group Meeting* FREIBURG, GERMANY

Spatial analysis of heat-related mortality: understanding and forecasting oppressive heat

*Department of Geography, Ball State University* MUNCIE, INDIANA

North American weather-type frequency and teleconnection indices

*Annual Meeting of the Association of American Geographers* NEW ORLEANS, LOUISIANA

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2002 Rural-urban differences in heat-related mortality in Ohio

*International Congress of Biometeorology* KANSAS CITY, MISSOURI

Using a synoptic classification scheme to assess rural-urban differences in heat vulnerability

*Conference on Applied Climatology* PORTLAND, OREGON

The development of the new Toronto Heat-Health Alert System

*North American Urban Heat Island Summit* TORONTO, ONTARIO

Climate change and health impacts

*Earth Day Forum, Kent State University* KENT, OHIO

Understanding, forecasting, and mitigating heat-related mortality

*Ohio Weather Symposium* COLUMBUS, OHIO

Heat-related mortality in Ohio

*Celebration of Scholarship, Kent State University* KENT, OHIO

Weather-related mortality in Ohio: county-by-county analysis

*Annual Meeting of the Association of American Geographers* LOS ANGELES, CALIFORNIA

Understanding the complexity of climate change through active learning

*Lilly West Conference* POMONA, CALIFORNIA

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Understanding and forecasting oppressive heat

*Meeting of the Northeast Ohio Chapter of the American Meteorological Society* KENT, OHIO

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- 2001 Weather-related mortality in Ohio: county-by-county analysis  
*East Lakes Division of the Association of American Geographers Meeting* CINCINNATI, OHIO  
**Spatial analysis of heat-related mortality: understanding and forecasting oppressive heat**  
*Colloquium, West Virginia University, Department of Geography and Geology* MORGANTOWN, WEST VIRGINIA  
Development of heat watch-warning systems for cities worldwide  
*Annual Meeting of the Association of American Geographers* NEW YORK, NEW YORK
- 
- 2000 Development of heat watch-warning systems for cities worldwide  
*East Lakes / West Lakes Regional Meeting of the Association of American Geographers* OXFORD, OHIO
- 
- 1999 An evaluation of the variability of air mass character between urban and rural areas  
*International Congress of Biometeorology and International Conference on Urban Climatology* SYDNEY, AUSTRALIA  
Redevelopment of a spatial synoptic classification for year-round application  
*Conference on Applied Climatology* DALLAS
- 
- 1998 **Health watch/warning systems in urban areas**  
*Global Warming 9 Conference* HONG KONG
- 
- 1997 Using a synoptic classification system to assess climate trends and variability in Texas  
*Conference on Applied Climatology* RENO, NEVADA
- 
- 1995 Lightning and precipitation relationships from the 15 - 19 October 1994 Southeast Texas Storm System  
*Southern Region (NOAA) Institutes Meeting* COLLEGE STATION, TEXAS