

CURRICULUM VITA

SCOTT C. SHERIDAN, PhD

OCTOBER 2023

Department of Geography
Kent State University
Kent, Ohio 44242 USA

+1 330.672.3224

ssherid1@kent.edu

<http://sheridan.geog.kent.edu>

Research interests: Applied climatology, synoptic climatology, human bioclimatology, climate change and variability, extreme temperature events, atmosphere-ocean interactions

PROFESSIONAL EXPERIENCE

AMERICAN GEOPHYSICAL UNION

LANDiNG Fellow 2021-23

DEPARTMENT OF GEOGRAPHY, KENT STATE UNIVERSITY

MAC Leadership Development Fellow 2019-20 Assistant Professor 2000-05
Department Chairperson 2016- Graduate Coordinator 2006-15
Acting/Interim Chairperson 2015-2016 Faculty director, Kent State-Geneva 2009
Professor 2011- Junior Teaching Scholar Fellow 2001-02
Associate Professor 2005-11

INTERNATIONAL JOURNAL OF BIOMETEOROLOGY

Editor Emeritus 2023- Field Editor, Epidemiology 2004-07
Editor-in-chief 2008-23

SCIENCE OF THE TOTAL ENVIRONMENT

Associate Editor 2015-

DATA IN BRIEF

Associate Editor 2018-22

INTERNATIONAL SOCIETY OF BIOMETEOROLOGY

President 2023-26 Vice President 2017-2020
President-Elect 2020-23

DEPARTMENT OF GEOGRAPHY, UNIVERSITY OF DELAWARE

Research Assistant 1996-2000 University Fellow 1996-99
Instructor 1998-99

DEPARTMENT OF METEOROLOGY, TEXAS A&M UNIVERSITY

Assistant to the State Climatologist 1994-95
American Meteorological Society Student Fellow 1993-94

EDUCATION

Doctor of Philosophy, Climatology, University of Delaware 2000
Dissertation: *The Redevelopment of an Air Mass Weather-Type Classification System for North America, with Applications to Climate Trends and Teleconnections*, Adviser: Laurence Kalkstein

Master of Science, Meteorology, Texas A&M University 1995
Thesis: *Cloud-to-Ground Lightning – Precipitation Relationships in the South-Central United States*, Adviser: John Griffiths

Bachelor of Science, Meteorology, Rutgers University 1993

FUNDED RESEARCH

\$4.64 million, including \$1.50 million in external funding as PI

Outstanding Research and Scholarship Award, Kent State University 2020

World's Top 2% of Scientists 2019

Excess Heat and Excess Cold Factors: Establishing a unified duration-intensity metric for monitoring hazardous temperature conditions in North America. Co-Investigator, **NOAA CPO** (PI C. Lee) (Award NA22OAR4310142) 2022-25 \$387,057

NOAA - NASA RISE Project - Using Synoptic-based Models, satellite ocean observations and climatology to support monthly to seasonal predictions of anomalous sea levels. Investigator, **NOAA** (Contract 1305M222PNCNS0284) 2022-2023 \$46,500

Health impacts of weather types in Sweden – the context of climatic and demographic change. Co-Investigator, **FORMAS** (Sweden) (PI B. Schumann, Umeå U.) 2018-21 ~*\$60,000

Developing extreme climate change indicators related to human thermal comfort. Co-Investigator, **NOAA CPO** (PI C. Lee) 2017-21 \$269,456

Using a synoptic climatological framework to assess predictability of anomalous coastal sea levels in NOAA high priority areas. Principal Investigator, **NOAA CPO** 2017-21 \$286,932

The Development of a Water Clarity Index for the Great Lakes as a Climate Indicator. Principal Investigator, **NASA** (Award NNX16AH12G) 2016-21 \$565,024

Enhancing Climate Preparedness through Geodesign of Urban Green Space. Principal Investigator, **Kent State University**, Environmental Science and Design Research Initiative 2018-19 \$12,000

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). Principal Investigator, **NOAA** (Contract EA-133C-15-SE-1454) 2015-16 \$40,000

A synoptic climatological assessment of atmospheric impacts on short-term sea-level variability and its impacts along the mid-Atlantic coast. Principal Investigator, **NOAA** (Contract EA-133C-14-SE-3728) 2014-15 \$25,000

Climate resilience through vacant land strategies and land use adaptation in Cleveland. Investigator, **Kresge Foundation** (PI T. Schwartz, Kent State) 2015 \$100,000

Development of a water clarity index for the Southeastern US as a climate indicator. Principal Investigator, **NASA** (Award NNX13AN31G) 2013-15 \$196,104

Climate variability/ change and the risks for a spectrum of diseases. Co-Investigator, **CDC** (PI S. Lin, New York Department of Health) 2009-13 \$150,000 subcontract

Climatological, epidemiological, and public health justification of a heat wave health warning system for Moldova. US Principal Investigator, **US Civilian Research and Development Foundation** 2008-10 \$49,000

A Spatial Synoptic Classification Approach to Projected Heat Vulnerability in California under Future Climate Change Scenarios. Principal Investigator, **California Air Resources Board** 2008-11 \$191,553

Inquiry-based approaches to Earth System Science. Co-Investigator, **NSF** (PI M. Munro-Stasiuk) 2005-10 \$1,914,276

Monitoring Agricultural Sewage Sludge, Ohio. Co-Investigator, **USDA** (PI M. Munro-Stasiuk) 2008-09 \$70,000

Monitoring biosolids in Ohio. Co-Investigator, **USDA** (PI M. Munro-Stasiuk) 2006-08 \$50,000

Climatic influences on the spatial and temporal variability of aerosols over North America. principal Investigator, **NSF** 2004-06 \$99,972

Municipal response and public perception of heat-health watch-warning systems: An evaluation of effectiveness. Principal Investigator, **EPA** 2003-05 \$47,114

Development of Heat Watch Warning Systems: Implementation and Intervention. Principal Investigator of sub-contract, **NOAA** (PI L. Kalkstein, U. Delaware) 2000-04 \$82,500

Spatial variability of heat vulnerability across Ohio. Summer research and creative activity investigator, **Kent State University** 2001 \$6,500

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 2000-2019

KENT STATE UNIVERSITY

Committee, SEA Change Initiative 2022-
University Strategic Planning Committee 2021-
Implementation Committee, Anti-Racism Task Force 2021-
Diversity, Equity, and Inclusion Leadership Council 2021-
Co-Chair, Learning and Education Subcommittee, Anti-Racism Task Force 2020-21
Chairs and Directors Representative, Center for Teaching and Learning Advisory Council 2019-20
Great Place Initiative Ad-Hoc Group on Race 2018-2021
University Space Committee 2018-
Co-Chair, Provost / Chairs and Directors Council 2018-19

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

EXTERNAL

Program Chair, 1st Virtual International Congress on Biometeorology 2021
Mentor and Judge, Believe in Ohio 2015
Proposal Review Panelist, NOAA 2015
External Reviewer, Southern Illinois University 2015
Program Chair and Local Organizing Chair, 20th 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

STUDENT ADVISEMENT

All students Department of Geography, Kent State, unless noted

College of Arts and Sciences Award for International Student Engagement 2017

GRADUATED DOCTORAL STUDENTS (10)

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)*

Xin Hong 2021 *A Convolutional Neural Network for Detecting and Mapping Built Environment at Neighborhood Scale*

Md. Rafiqul Islam 2020 *A synoptic assessment of the South Asian Monsoon*

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*

- E. Tyler Smith 2021 *Historical and Future Changes in Cold Air Outbreaks Across the Globe and the Influence of Atmospheric Teleconnections*
- Jeremy Spencer 2015 *The Geography of Hypothermia in the United States: An Analysis of Mortality, Morbidity, Thresholds, and Messaging*

GRADUATED MASTERS STUDENTS (12)

- Ryan Adams 2017 *Bomb Cyclones of the Western North Atlantic*
- 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*

VISITING STUDENTS HOSTED (3)

Vinicius Carmello (Universidade Estadual Paulista – Presidente Prudente, Brazil) 2016, Nubia Beray Armond (Universidade Estadual Paulista – Presidente Prudente, Brazil) 2013, Nicole Ortiz Jimenez (Universidad de Puerto Rico – Rio Piedras) 2019

PH.D. COMMITTEES SERVED ON (20)

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, Christopher Elcik (Geosciences, Mississippi State) 2019, 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, Alicia Sloan 2022, Aida Soim (U. Albany) 2014, Lee Stocks 2010, Andrea Szell 2019, Zheyue Wang 2018

MASTERS COMMITTEES SERVED ON (24)

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, Md. Sariful Islam 2018, Sung-bae Jeon 2003, Debra Kellar 2010, Bryce Kastelein 2014, Johnathan Kirk 2013, Bethaney Krzys 2008, Christina Longo 2011, Christopher Nitzsche 2013, Omon Obarein 2020, Melissa Phillips 2011, Jared Scott 2001 (U. Delaware), Rachel Will 2014, Carmen Woodhall 2007, Siyao Xu 2009, Chaoqing Yu 2001

CURRENT ADVISEES (4)

Ph.D.: Alindomar Silva, Andrews Boateng; MA: Seth Rainey, Hannah Trommer

CURRENT COMMITTEES (2)

Michael Crowell, Omon Obarein

COURSES TAUGHT

College of Arts and Sciences Distinguished Teacher Award 2007

<i>Applied Climatology</i> 4x	<i>Geography of the United States & Canada</i> 3x
<i>Climate and Life</i> 1x	<i>Global Environmental Issues</i> 1x
<i>Climate Change and its Impacts</i> 8x	<i>Observing Earth from Space workshop</i> 5x
<i>Earth System Science (Workshop)</i> 5x	<i>Physical Geography</i> 4x
<i>Field Experience</i> 4x	<i>Physical Geography Lab</i> 1x
Iceland, Peru, Costa Rica, Portugal	<i>Principles of Climatology</i> 9x
<i>Fundamentals of Meteorology</i> 7x	<i>Research & Presentation of Geographic Data</i> 5x
<i>Geography of Europe</i> 9x	<i>Statistical Methods in Geography</i> 7x
<i>Geography of Latin America and the Caribbean</i> 4x	<i>World Geography</i> 11x

PUBLICATIONS

Highly cited publications (h-index=39) denoted in red

7,087 total citations (Google Scholar)

PEER-REVIEWED PUBLICATIONS (132)

[Obarein OA, Lee CC, Smith ET, Sheridan SC. 2023. Evaluating medium-range forecast performance of regional-scale circulation patterns. *Weather and Forecasting* 38, 1467-1480.](#)

[Lee CC, Sheridan SC, Dusek GP, Pirhalla DE. 2023. Atmospheric Pattern-Based Predictions of S2S Sea Level Anomalies for Two Selected US Locations. *Artificial Intelligence for the Earth Systems* 2\(3\):220057.](#)

[Yan D, Zhang Z, Jin Z, Li M, Sheridan SC, Wang T. 2023. Ozone variability driven by the synoptic patterns over China during 2014–2022 and its implications for crop yield and economy. *Atmospheric Pollution Research* 14\(9\):101843.](#)

Gao D, Friedman S, Hosler A, Sheridan SC, Zhang W, Lin S. 2022. Association between extreme ambient heat exposure and diabetes-related hospital admissions and emergency department visits: A systematic review. *Hygiene and Environmental Health Advances* 4: 100031.

Zhang W and others including Sheridan SC. How Neighborhood Environment Modified the Power Outages' Effects on Multiple Health Outcomes in New York State. *Hygiene and Environmental Health Advances*, in press.

Birkel JFH, Twine TE, Liess S, Kalkstein LS, Sheridan S. Trends in synoptic heat events in four Minnesota urban areas through the 21st century. *Urban Climate* 46: 101307.

Hong X, Sheridan SC, Li D. 2022. Mapping built environments from UAV imagery: a tutorial on mixed methods of deep learning and GIS. *Computational Earth Science* 2:12.

Pirhalla DE, Lee CC, Sheridan SC, Ransibrahmanakul V. 2022. Atlantic Coastal Sea Level Variability and Synoptic-Scale Meteorological Forcing. *Journal of Applied Meteorology and Climatology*, 61, 205-222.

- Simmons W, Lin S, Luben TJ, Sheridan SC, Langlois PH, Shaw GM, Reefhuis J, Romitti PA, Feldkamp ML, Nembhard WN, Desrosiers TA. 2021. Modeling complex effects of exposure to particulate matter and extreme heat during pregnancy on congenital heart defects: A US population-based case-control study in the National Birth Defects Prevention Study. *Science of The Total Environment* 152150.
- Ingole V, Sheridan SC, Juvekar S, Achebak H, Moraga P. 2021. Mortality risk attributable to high and low ambient temperature in Pune city, India: A time series analysis from 2004 to 2012. *Environmental Research*, in press.
- [Elcik C, Fuhrmann CM, Sheridan SC, Mercer AE, Sherman-Morris K. Geographical variability in the relationship between synoptic weather type and emergency department visits for pain across North Carolina. 2021. *International Journal of Biometeorology* 66, 559-572.](#)
- Smith ET, Sheridan SC. 2022. The Relationship Between Teleconnections, Surface Temperature, and Cold Air Outbreaks, *International Journal of Climatology*, 42, 1531-1543.
- [Li C, Wu X, Sheridan S, Lee J, Wang X, Yin J, Han J. 2021. Interaction of climate and socio-ecological environment drives the dengue outbreak in epidemic region of China. *PLoS Neglected Tropical Diseases*. 2021 Oct 4;15\(10\):e0009761. 16 pp.](#)
- Sheridan SC, Zhang W, Deng X, Lin S. 2021. The individual and synergistic impacts of windstorms and power outages. *Science of the Total Environment*, 797. 140199.
- Lin S, Zhang W, Sheridan SC, et al. 2021. The immediate effects of winter storms and power outages on multiple health outcomes and the time windows of vulnerability. *Environmental Research*, 196, 110924, 10 pp.
- [Smith ET, Sheridan SC. 2021. Projections of cold air outbreaks in CMIP6 earth system models. *Climatic Change* 169: 14, 16 pp.](#)
- Smith ET, Obarein O, Sheridan SC, Lee CC. 2021. Assessing trends in atmospheric circulation patterns across North America. *International Journal of Climatology*, 41, 2679-2692.
- Fonseca-Rodríguez O, Sheridan SC, Lundevaller EH, Schumann B. 2021. Effect of extreme hot and cold weather on cause-specific hospitalizations in Sweden: a time series analysis. *Environmental Research*, 110535.
- Adams RA, Lee CC, Smith ET, Sheridan SC. 2021. The relationship between atmospheric circulation patterns and extreme temperature events in North America. *International Journal of Climatology*, 41, 92-103.
- Sheridan SC, Dixon PG, Kalkstein AJ, Allen MJ. 2021. Recent trends in heat-related mortality in the United States: an update through 2018. *Weather, Climate and Society*, 13, 95-106.
- Lee CC, Obarein O, Sheridan SC, Smith ET, Adams R. 2021. Examining trends in multiple parameters of seasonally-relative extreme temperature and dew point events across North America, 41, E2360-2378.
- Lee CC, Barnes BB, Sheridan SC, Smith ET, Hu C, Pirhalla DE, Ransibrahmanakul V, Adams R. 2020. Using machine learning to model and predict water clarity in the Great Lakes. *Journal of Great Lakes Research*, 46, 1501-1510.
- Diniz FR, Goncalves FLT, Sheridan SC. 2020. Heat Wave and Elderly Mortality: Historical Analysis and Future Projection for Metropolitan Region of São Paulo, Brazil. *Atmosphere*, 11, 933, 13pp.
- Elcik C, Fuhrmann CM, Sheridan SC, Mercer AE, Sherman-Morris K. 2020. Relationship between synoptic weather type and emergency department visits for different types of pain across the Triangle region of North Carolina. *International Journal of Biometeorology*, 64, 1815-1823.
- [Sheridan SC, Lee CC, Smith ET. 2020. A comparison between station observations and reanalysis data in the identification of extreme temperature events. *Geophysical Research Letters*, 47, e2020GL088120.](#)
- [Jacox MG and others, including Sheridan SC. 2020. Seasonal-to-interannual prediction of North American coastal marine ecosystems: Forecast methods, mechanisms of predictability, and priority developments. *Progress in Oceanography*, 183, 102307.](#)
- [Smith ET, Sheridan SC. 2020. Where do cold air outbreaks occur and how have they changed over time? *Geophysical Research Letters*, 47, e2020GL086983.](#)

- Zhang W, Sheridan SC, et al, Lin S. 2020. Power Outage: An Ignored Risk Factor for Chronic Obstructive Pulmonary Disease Exacerbations, *Chest*, 158, 2346-2357.
- Fonseca-Rodríguez O, Sheridan SC, Lundevaller EH, Schumann B. 2020. Hot and cold weather based on the spatial synoptic classification and cause-specific mortality in Sweden: a time-stratified case-crossover study. *International Journal of Biometeorology*, 64, 1435-1449.
- Smith, ET and others, including Sheridan SC. 2020. A synoptic climatological analysis of the atmospheric drivers of water clarity variability in the Great Lakes. *Journal of Applied Meteorology and Climatology*, 59, 915-935.
- Zhang, W and others including Sheridan SC. 2020. How Community Vulnerability Factors Jointly Affect Multiple Health Outcomes after Catastrophic Storms. *Environment International*, 134, 105285.
- Capotondi A, and others, including Sheridan SC. 2019. Observational Needs Supporting Marine Ecosystems Modeling and Forecasting: Insights from U.S. Coastal Applications. *Frontiers in Marine Science*, doi.org/10.3389/fmars.2019.00623, 30 pp.
- Stingone JA, and others, including and Sheridan SC. 2019. Associations between fine particulate matter, extreme heat events and congenital heart defects. *Environmental Epidemiology*, 3, 6, e071.
- Sheridan SC, Lee CC, Adams RE, Smith ET, Pirhalla DE, Ransibrahmanakul V. 2019. Temporal Modeling of Anomalous Coastal Sea Level Values Using Synoptic Climatological Patterns. *Journal of Geophysical Research Oceans*, 124, 6531-6544.
- Nayak S et al, including Sheridan SC. 2019. Accessibility of Cooling Centers to Heat-Vulnerable Populations in New York State. *Journal of Transport and Health*, 14, 100563.
- Fonseca-Rodríguez O, Lundevaller EH, Sheridan SC, Schumann B. 2019. Association between weather types based on the Spatial Synoptic Classification and all-cause mortality in Sweden, 1991 – 2014. *International Journal of Environmental Research and Public Health*, 16, 1696.
- Sheridan SC, Lee CC, Allen MJ. 2019. The mortality response to absolute and relative temperature extremes. *International Journal of Environmental Research and Public Health*, 16, 1493.
- Zhang W, and others, including Sheridan SC. 2019. Projected changes in maternal heat exposure during early pregnancy and the associated congenital heart defect burden in the United States. *Journal of the American Heart Association*, 8:e010995.
- Smith ET, Sheridan SC. 2019. The Influence of Atmospheric Circulation Patterns on Cold Air Outbreaks in the Eastern United States. *International Journal of Climatology*, 39, 2080-2095.
- Islam MR, Sheridan SC, Lee CC. 2019. Using self-organizing maps to identify the South Asian seasonal cycle. *Theoretical and Applied Climatology*, 137, 1385-1401.
- Ballinger TJ, Lee CC, Sheridan SC, Crawford AD, Overland JE, Wang M. 2019. Subseasonal atmospheric regimes and ocean background forcing of Pacific Arctic sea ice melt onset. *Climate Dynamics*, 52, 5657-5672.
- Smith ET, Sheridan SC. 2019. The Influence of Extreme Cold Events on Mortality in the United States. *Science of the Total Environment*, 67, 342-251.
- Sheridan SC, Lee CC. 2018. Temporal trends in absolute and relative extreme temperature events across North America. *Journal of Geophysical Research – Atmospheres*, 123, 11889-11898.
- Lee CC, Sheridan SC. 2018. Trends in weather type frequencies across North America. *npj Climate and Atmospheric Science*, 1, 41.
- [Fontão PA, Zavattini JA, Sheridan SC, Armond NB. 2018. Gênese das chuvas em São Paulo \(SP\): Estudo comparativo entre a “Spatial Synoptic Classification” e a “Análise Rítmica Em Climatologia”. *Revista Brasileira de Climatologia*. 23, 267-288.](#)
- Soim AS, Sheridan SC, et al. 2018. A population-based case-control study of the association between weather-related extreme heat events and orofacial clefts. *Birth Defects Research*, 110, 1468-1477.
- Sheridan SC, Allen MJ. 2018. Temporal trends in human vulnerability to excessive heat. *Environmental Research Letters*, 13, 043001, 12 pp.
- Lin S, et al., including Sheridan SC. 2018. Maternal Ambient Heat Exposure during Early Pregnancy in Summer and Spring and Congenital Heart Defects – a Large US Population-based, Case-Control Study. *Environment International*, 118, 211-221.

- Lee CC, Sheridan SC. 2018. A new approach to modeling temperature-related mortality: Non-linear autoregressive models with exogenous input. *Environmental Research*, 154, 53-64.
- Smith ET, Sheridan SC. 2018. The characteristics of extreme cold events and cold air outbreaks in the eastern United States. *International Journal of Climatology*, 38, e807-e820.
- Allen MJ, Sheridan SC. 2018. Mortality risks during extreme temperature events (ETEs) using a distributed lag non-linear model. *International Journal of Biometeorology*, 62, 57-67.
- Lee DG, Kim KR, Kim JY, Kim BJ, Cho CH, Sheridan SC, Kalkstein LS, Kim H, Yi SM. 2018. Effects of heat waves on daily excess mortality in 14 Korean cities during the past 20 years (1991-2010): an application of the Spatial Synoptic Classification approach. *International Journal of Biometeorology*, 62, 575-583.
- Nayak, SG, and others, including Sheridan SC. 2018. Development of a Heat-Vulnerability Index for New York State. *Public Health*, 161, 127-137.
- Sheridan SC, Allen MJ. 2017. Sixty years of the International Journal of Biometeorology. *International Journal of Biometeorology*, 61, S3-10.
- Sheridan SC, Dixon PG. 2017. Spatiotemporal trends in human vulnerability and adaptation to heat across the United States. *Anthropocene*, 20, 61-73.
- Sheridan SC, Lee CC, Pirhalla DE, Ransibrahmanakul V. 2017. Atmospheric drivers of sea-level fluctuations and nuisance floods along the mid-Atlantic coast of the USA. *Regional Environmental Change*, 17, 1853-1861.
- Cerveny R, et al., including Sheridan SC. 2017. WMO Assessment of Weather and Climate Mortality Extremes: Lightning, Tropical Cyclones, Tornadoes, and Hail. *Weather Climate and Society*, 9, 487-497.
- Kirk JP, Sheridan SC, Schmidlin TW. 2017. Synoptic climatology of the early 21st century drought in the Colorado River Basin and relationships to reservoir water levels. *International Journal of Climatology*, 37, 2424-2437.
- Lee CC, Sheridan SC, Barnes BB, Hu C, Pirhalla DE, Ransibrahmanakul V, Shein K. 2017. 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*, 130, 557-569.
- Nayak S et al., including Sheridan SC. 2017. 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*, 42, 43-50.
- 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. 2017. Enhancing the Teaching and Learning of Biometeorology in Higher Education. *Bulletin of the American Meteorological Society*, 98, ES239-ES242.
- Pirhalla DE, Sheridan SC, Lee CC, Barnes BB, Ransibrahmanakul V, Hu C. 2017. Water clarity patterns in South Florida coastal waters and their linkages to synoptic-scale wind forcing. *Satellite Oceanography and Meteorology*, 2, 26-40.
- Soim AS, Lin S, Sheridan SC, Hwang SA, Hsu WH, Luben TJ, Shaw GM, Feldkamp ML, Romitti PA, Reefhuis J, Langlois PH, Browne ML, National Birth Defects Prevention Study. 2017. Population-based case-control study of the association between weather-related extreme heat events and neural tube defects. *Birth Defects Research*, 109, 1482-1493.
- Allen MJ, Sheridan SC. 2016. 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. 2016. Spatio-temporal changes in heat waves and cold spells: an analysis of 55 U.S. cities. *Physical Geography*, 37, 189-209.
- Ballinger TJ, Sheridan SC. 2016. Sea ice impacts on polar surface weather types in the North American Arctic. *Climate Research*, 67, 117-134.
- Kim JA, Kim KR, Lee CC, Sheridan SC, Kalkstein LS, Kim BJ. 2016. Analysis of Occurrence Distribution and Synoptic Pattern of Future Heat Waves in Korea. [한반도 미래 폭염의 발생 분포 및 종관패턴 분석]. *Journal of Climate Research*, 11, 15-27.

- Sailor D, Shepherd M, Sheridan SC, Stone B, Kalkstein LS, Russell A, Vargo J, Andersen T. 2016. Improving heat-related health outcomes in an urban environment with science-based policy. *Sustainability*, 8, 1015.
- Sheridan SC, Allen MJ. 2015. Changes in the frequency and intensity of extreme temperature events and human health concerns. *Current Climate Change Reports*, 1, 155-162.
- Ballinger TJ, Sheridan SC. 2015. Regional atmospheric patterns and the delayed sea-ice freeze-up in the western Arctic. *Climatic Change*, 131, 229-243.
- Lee CC, Sheridan SC. 2015. 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. 2015. 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. 2015. 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. 2015. Web-based hypothermia information: a critical assessment of Internet resources and a comparison to peer-reviewed literature. *Perspectives in Public Health*, 135, 85-91.
- Sheridan SC, Koppe C, Kalkstein LS. Heat Health Watch Warning Systems: Definition and Methodology. 2014. In *Heat Waves and Health: Guidance on Warning System Development*, World Meteorological Organization, G. McGregor (ed).
- Sheridan SC, Lee CC. 2014. Synoptic Climatology. In *Oxford Bibliographies*, Oxford University Press. DOI 10.1093/OBO/9780199874002-0088.
- Sheridan SC, Lin S. 2014. 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. 2014. 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. 2014. 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. 2014. 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. 2014. Association of Weekly Suicide Rates with Temperature Anomalies in Two Different Climate Types. *International Journal of Environmental Research and Public Health*, 11, 11627-11644.
- Sheridan SC, Pirhalla DP, Lee CC, Ransi V. 2013. 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. 2013. 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. 2013. Heat-related mortality in Moldova: The summer of 2007. *International Journal of Climatology*, 33, 2551-2560.
- 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.
- Insaf TZ, Lin S, Sheridan SC. 2013. Climate trends in indices for temperature and precipitation across New York State, 1948–2008. *Air Quality, Atmosphere, and Health*, 6, 247-257.
- Sheridan SC, Lee CC, Allen MJ, Kalkstein LS. 2012. Future heat vulnerability in California Part I: Projecting future weather types and heat events. *Climatic Change*, 115, 291-309.
- Sheridan SC, Allen MJ, Lee CC, Kalkstein LS. 2012. Future heat vulnerability in California Part II: Projecting future heat-related mortality. *Climatic Change*, 115, 321-326.
- Sheridan SC, Lee CC. 2012. Synoptic climatology and the analysis of atmospheric teleconnections. *Progress in Physical Geography*, 36, 548-557.

- Lee CC, Sheridan S.C., Lin S. 2012. Relating weather types to asthma-related hospital admissions in New York State. *EcoHealth*, 9, 424-439.
- Lee CC, Sheridan SC. 2012. A Six-Step Approach to Developing Future Synoptic Classifications based on GCM Output. *International Journal of Climatology*, 32, 1792-1802.
- [Sheridan SC, Kalkstein LS, Lee C, Allen M. 2011. A spatial synoptic classification approach to projected heat vulnerability in California under future climate change scenarios. California Environmental Protection Agency, Air Resources Board, Research Division, 155 pp.](#)
- Sheridan SC, Lee CC. 2011. The self-organizing map in synoptic climatological research. *Progress in Physical Geography*, 35, 109-119.
- Kent WP, Sheridan SC. 2011. The impact of cloud cover on major league baseball. *Weather Climate and Society*, 3, 7-15.
- Sheridan SC, Kalkstein AJ. 2010. Seasonal variability in heat-related mortality across the United States. *Natural Hazards*, 55, 291-305.
- Sheridan SC, Lee CC. 2010. Synoptic climatology and the general circulation model. *Progress in Physical Geography*, 34, 101-109.
- Butke PS, Sheridan SC. 2010. 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. 2010. 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. 2010. 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. 2010. Development of Heat-Health Warning System Based on Regional Properties between Climate and Human Health. *Climate Change Research*, 1, 109-120.
- Sheridan SC, Kalkstein AJ, Kalkstein LS. 2009. 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. 2009. 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. 2009. 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. 2009. Heat Health Warning Systems: Development, Implementation, and Intervention Activities. In *Biometeorology for Adaptation to Climate Variability and Change*, Springer-Verlag, 33-48.
- Sheridan SC, Power HC, Senkbeil JC. 2008. 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.
- Kalkstein LS, Sheridan SC, Au YC. 2008. 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. 2008. 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. 2008. 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. 2008. Localizing geographic concepts through middle- and high-school outreach. *Papers of the Applied Geography Conference*, 182-188.

- Sheridan SC. 2007. 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. 2007. In *Climate Change and Variation: A Primer for Teachers*, National Council for Geographic Education, W.A. Dando (ed.), 103-110.
- Kalkstein AJ, Sheridan SC. 2007. 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.
- Bower D, McGregor GR, Hannah D, Sheridan SC. 2007. Development of a Spatial Synoptic Classification Scheme for Western Europe. *International Journal of Climatology*, 27, 2017-2040.
- Senkbeil JC, Rodgers JC, Sheridan SC. 2007. The sensitivity of tree growth to air mass variability and the Pacific Decadal Oscillation in coastal Alabama. *International Journal of Biometeorology*, 51, 483-492.
- Dolney TJ, Sheridan SC. 2006. 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. 2006. 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. 2006. A post-landfall hurricane classification system for the United States. *Journal of Coastal Research*, 22, 1025-1034.
- Hayhoe K, Kalkstein LS, Miller N, Sheridan SC, Jin J. 2005. 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. 2005. Synoptic weather patterns and modification of the association between air pollution and human mortality. *International Journal of Environmental Health Research*, 15, 347-360.
- Sheridan SC, Kalkstein LS. 2004. Progress in Heat Watch-Warning System Technology. *Bulletin of the American Meteorological Society*, 85, 1931-1941.
- Sheridan SC. 2004. *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. 2004. Developing 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.
- Hancox JG, Sheridan SC, Feldmann SR, Fleischer AB. 2004. 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. 2004. Climate Change, Extreme Heat, and Heat Mortality in California. *Proceedings of the National Academy of Science*, 101, 12422-12427.
- Sheridan SC. 2003. North American weather-type frequency and teleconnection indices. *International Journal of Climatology*, 23, 21-45.
- Sheridan SC, Dolney TJ. 2003. Heat, mortality, and level of urbanization: Measuring vulnerability across Ohio, USA. *Climate Research*, 24, 255-265.
- Sheridan SC. 2002. The Redevelopment of a Weather-Type Classification Scheme for North America. *International Journal of Climatology*, 22, 51-68.
- Duncan K, Guidotti T, Cheng W, Naidoo K, Gibson G, Kalkstein LS, Sheridan SC, Toews D, MacEachern S, Last J. 1999. Canadian Country Study: Impacts and Adaptation, Health Sector. In *Canada Country Study: Impacts and Adaptation*. Environment Canada, 522-532.
- Kalkstein LS, Sheridan SC, Graybeal DY. 1998. A determination of character and frequency changes in air masses using a spatial synoptic classification. *International Journal of Climatology*, 18, 1223-1236.
- Sheridan SC, Kalkstein LS. 1998. Health watch/warning systems in urban areas. *World Resource Review*, 10, 375-383.

Sheridan SC, Griffiths JF, Orville RE. 1997. Warm season cloud- to-ground lightning - precipitation relationships in the South Central United States. *Weather and Forecasting*, 12, 449-458.

OTHER PUBLICATIONS

Sheridan SC. 2023. Letter from the Editor in Chief. *International Journal of Biometeorology*, 67, 1153.

Twine T, Birkel JFH, Liess S, Kalkstein LS, Sheridan SC. 2022. Spatial synoptic classifications projected for the 21st century in Minneapolis-St Paul, Minnesota. Data Repository for the University of Minnesota, <https://doi.org/10.13020/MCVZ-DX50>.

Sheridan SC, Sailor D, de Guzman EB, Eisenmann DP, Kalkstein LS, Parfrey J, Chen Y, Koetter M, Soorianian L. 2022. Reducing Heat and Emergency Room Visits With Trees and High-albedo Surfaces in Los Angeles. In *AGU Fall Meeting Abstracts 2022*, A35M-1645.

[de Guzman E, Kalkstein LS, Sailor D, Eisenman D, Sheridan S, Kirner K, Maas R, Shickman K, Fink D, Parfrey J, Chen Y. 2020. Rx for Hot Cities: Climate Resilience Through Urban Greening and Cooling in Los Angeles. Los Angeles Urban Cooling Collaborative. 72pp.](#)

[Dai J, Fernandez-Arroyabe P, Sheridan SC. 2019. Foreword for IJB Special Issue on Asian Biometeorology: Spring news from the eastern hemisphere: recent advances of biometeorology in Asia. *International Journal of Biometeorology* 63:563-8.](#)

Sheridan SC. 2017. The Journal and Society turn 60. *International Journal of Biometeorology*, 61, S1-2.

[Vanos J, Shickman K, Alliance GC, Sheridan S. 2014. Assessing the health impacts of urban heat island reduction strategies in the cities of Baltimore, Los Angeles, and New York. Report, Global Cool Cities Alliance. 38 pp.](#)

Sheridan SC. Heat-related mortality in the 21st century. 2014. In *Our Changing Climate: introduction to Climate Science*, American Meteorological Society, C. Kauffman (lead author), 466-468.

[Kalkstein LS, Sailor D, Shickman K, Sheridan S, Vanos J. 2013. Assessing the health impacts of urban heat island reduction strategies in the District of Columbia. Report DDOE #2013-10-OPS, Global Cool Cities Alliance. 28 pp.](#)

[Sheridan SC. 2012. ISB News January 2012: From the Editor-in-Chief. *International Journal of Biometeorology*, 67, 1153.](#)

[Sheridan S, Hayhoe K, Kalkstein L. Estimating climate change impacts from atmospheric circulation patterns and air masses. California Climate Change Center, CEC-500-2009-31-D, 31pp.](#)

Hellman J, and other authors, including Sheridan SC. 2008. Ch.4 – Health. In *Climate Change and Chicago*, Chicago Climate Action Plan, K. Hayhoe and D. Webbles (lead authors).

Sheridan SC, Kalkstein AJ, Kalkstein LS. 2008. Trends in heat-related mortality in the United States, 1975-2004. *Proceedings, International Congress on Biometeorology*, 4pp.

[Brown C, Chiotti Q, Davidson L, Dubois N, Hamel S, Hirst S, Morris-Oswald T, Ruf F, Sheridan S, Diggins TS, Sullivan S. Communicating the Health Risks of Extreme Heat Events. Health Canada, 60 pp.](#)

Sheridan SC, contributor to DSP Montreal. 2007. Heat Health Warning System Workshop – Montreal, Quebec, Canada. Direction de Santé Publique, 147 pp.

Sheridan SC. 2006. Public perception and response to extreme heat. *Bulletin of the American Meteorological Society*, 87, 884-886.

[Dreschler DM, Motallebi N, Kleeman M, Cayan D, Hayhoe K, Kalkstein LS, Miller N, Sheridan SC, Jin J. 2006. Public health-related impacts of climate change. California Climate Change Center. 138 pp.](#)

Sheridan SC. 2005. Operational considerations in heat-health watch warning system development. *Proceedings, 17th International Congress of Biometeorology*.

Sheridan SC. 2005. The perception and response to heat warnings across three North American cities. *Proceedings, 17th International Congress of Biometeorology*.

[Kalkstein LS, Sheridan SC. 2005. The impact of heat-island reduction strategies on health-debilitating oppressive air masses in urban areas: a follow-up study. Report, U.S. EPA Heat Island Reduction Initiative, 39 pp.](#)

- Taha H, Kalkstein LS, Sheridan SC, Wong E. 2004. 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.
- Sheridan SC. Heat-related Mortality: A rural problem too. 2002. *Bulletin of the American Meteorological Society*, 83, 1466-1467.
- Sheridan SC. Rural-Urban Differences in Heat-Related Mortality in Ohio. 2002. *Proceedings, 15th 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. 2002. *Proceedings, 13th Conference on Applied Climatology*, American Meteorological Society, 3 pp.
- Sheridan SC, Kent WP, Kalkstein LS. 2002. The development of the new Toronto heat-health alert system. *Proceedings, Urban Heat Island Summit*, Toronto, Ontario, 5 pp.
- Hughes C, Sheridan SC. 2002. Turning up the heat. *Bulletin of the American Meteorological Society*, 83, 660.
- Kent WP, Sheridan SC, Kalkstein LS. 2002. 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.
- 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). 2001. *Proceedings, 15th Annual Meeting of the Italian Epidemiological Association*, Venice, Italy, 412.
- Sheridan SC, Kalkstein LS, Scott JM. 2000. 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.
- Llanso PD, Kalkstein LS, Sheridan SC. 2000. 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.
- 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.
- Sheridan SC. 1997. Using a synoptic classification system to assess climate trends and variability in Texas. *Proceedings, 10th Conference on Applied Climatology*, American Meteorological Society, 287-289.
- Griffiths JF, Sheridan SC. 1995. Weather. 1996-1997 *Texas Almanac*, Mary G. Ramos, Ed., The Dallas Morning News, Inc., Dallas, Texas, 102-118.
- Griffiths JF, Sheridan SC, Gleason KL. 1995. *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. 1995. *Texas Weather: Pre-1880*. Office of the State Climatologist, Texas A&M University, College Station, Texas, Monograph No. 4, 69 pp.
- Griffiths JF, Sheridan SC, Peterson RD. 1994. *Texas Weather: A Review of 1993*. Office of the State Climatologist, Texas A&M University, College Station, Texas, 107 pp.

PRESENTATIONS

*only lead presentations listed unless noted, *invited*

CONFERENCE PRESENTATIONS

International Congress of Biometeorology Tempe, Arizona 2023

**International Journal of Biometeorology: Report*

Reducing Heat and Emergency Room Visits With Trees and High-albedo Surfaces in Los Angeles

**New President's Address*

Fall Meeting, American Geophysical Union Chicago, Illinois 2022

Reducing Heat and Emergency Room Visits With Trees and High-albedo Surfaces in Los Angeles
Fall Meeting, American Geophysical Union New Orleans, Louisiana 2021
Recent Trends in Heat-Related Mortality in the United States: An Update through 2018

Meeting, 1st Virtual International Congress of Biometeorology 2021
Recent Trends in Heat-Related Mortality in the United States: An Update through 2018

Fall Meeting, American Geophysical Union San Francisco, California 2019
Temporal modeling of anomalous coastal sea-level values using synoptic climatological patterns

Annual Meeting, East Lakes Division of the Association of American Geographers Saginaw, Michigan 2019
Modeling coastal sea-level values using synoptic climatology

Annual Meeting, International Society for Environmental Epidemiology Utrecht, Netherlands 2019
The impacts of anomalous temperature events on mortality outside the core of summer and winter

Annual Meeting of the American Meteorological Society Phoenix, Arizona 2019
The early-season cold or heat wave: what are its impacts on human mortality?

Annual Meeting of the Association of American Geographers Washington, DC 2019
The early-season cold or heat wave: what are its impacts on human mortality?

Fall Meeting, American Geophysical Union Washington, DC 2018
Temporal trends in absolute and relative extreme temperature events across North America

Applied Geography Conference Kent, Ohio 2018
The relationship between relative extreme temperature events and mortality in the United States

Annual Meeting of the Association of American Geographers New Orleans, Louisiana 2018
Childhood injury risk in Akron, Ohio, and the role of weather

Fall Meeting, American Geophysical Union New Orleans, Louisiana 2017
The role of atmospheric circulation patterns on short-term sea-level fluctuations along the eastern seaboard of the US

Annual Meeting, East Lakes Division of the Association of American Geographers Ypsilanti, Michigan 2017
Childhood injury risk in Akron, Ohio, and the role of weather

International Congress of Biometeorology Durham, United Kingdom 2017
**International Journal of Biometeorology: Report*
Sixty years of the International Journal of Biometeorology
Modeling weather impacts on human mortality using NARX models
The impact of weather conditions on childhood injury risk in Akron, Ohio, USA

Annual Meeting of the Association of American Geographers Boston, Massachusetts 2017
Using self-organizing maps to assess atmospheric circulation and short-term sea-level fluctuations

Fall Meeting, American Geophysical Union San Francisco, California 2016
**Spatiotemporal trends in human vulnerability to the heat across the US*

Applied Geography Conference Louisville, Kentucky 2016
Using self-organizing maps to assess atmospheric circulation along the eastern seaboard of the US, and its relationship with short-term sea-level fluctuations

Annual Meeting, East Lakes Division of the Association of American Geographers Marquette, Michigan 2016
Temporal trends in heat-related mortality

Adaptation Futures Rotterdam, Netherlands 2016
Changes in the heat-health relationship across the USA, 1975-2010: adaptation and its limits

Annual Meeting of the Association of American Geographers San Francisco, California 2016
Heat-related mortality in the US: Time trends through 2010

Applied Geography Conference San Antonio, Texas 2015
Temporal trends in heat-related mortality across the United States

Annual Meeting, East Lakes Division of the Association of American Geographers Kent, Ohio 2015
Decreased rates of heat-related mortality in the US, 1975-2010

Annual Meeting, International Society for Environmental Epidemiology São Paulo, Brazil 2015
Heat-related mortality in the US: Time trends through 2010

Annual Meeting of the Association of American Geographers Chicago, Illinois 2015
Decreased rates of heat mortality: have we already adapted to climate change?

Fall Meeting, American Geophysical Union San Francisco, California 2014
Development of a water clarity index for the southeastern US as a climate indicator

International Congress of Biometeorology Cleveland, Ohio 2014
**International Journal of Biometeorology: Report*
Updated trend analysis of heat vulnerability in the United States using a Distributed Lag Nonlinear Model

Annual Meeting of the Association of American Geographers Tampa, Florida 2014
The reconstruction of historical Spatial Synoptic Classification types across North America

Annual Meeting of the Pennsylvania Geographic Society Pittsburgh, Pennsylvania 2013
**The Geography of Heat Vulnerability [KEYNOTE]*

Annual Meeting of the European Meteorological Society Reading, United Kingdom 2013
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 Association of American Geographers Los Angeles, California 2013
Evaluating the different responses in morbidity and mortality to heat events across New York State

Annual Meeting of the American Meteorological Society Austin, Texas 2013
**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 International Society for Environmental Epidemiology Columbia, South Carolina 2012
A Comparison of Morbidity and Mortality Responses to Heat Events in New York State

Annual Meeting of the Association of American Geographers New York, New York 2012
Projections of Heat Vulnerability in California over the 21st Century Using a Synoptic Climatological Approach

Annual Meeting of the American Meteorological Society New Orleans, Louisiana 2012
**Global Heat in 2011*

International Congress of Biometeorology Auckland, New Zealand 2011
Projecting future heat vulnerability in California using a synoptic climatological approach

Annual Meeting of the Association of American Geographers Seattle, Washington 2011
A synoptic climatological assessment of heat-related hospital admissions in New York State

International Society for Environmental Epidemiology Seoul, South Korea 2010
Heat-related mortality and heat watch-warning systems in the United States: Recent developments

Annual Meeting of the Association of American Geographers Washington, District of Columbia 2010
The season cycle of warm weather-related mortality across the US

Annual Meeting of the American Meteorological Society Atlanta, Georgia 2010
**The incorporation of seasonal and temporal variability in mortality response to hot weather into operational heat watch-warning systems*

Applied Geography Conference Baton Rouge, Louisiana 2009
The seasonality of warm weather mortality across the United States

International Congress of Biometeorology Tokyo, Japan 2008
Temporal trends in heat-related mortality across the US

Conference on Biogeosciences Orlando, Florida 2008
Temporal variability in mortality response to hot weather across US metropolitan areas, 1975-2004

Annual Meeting of the Association of American Geographers Boston, Massachusetts 2008
The spatial synoptic classification: new advances and the creation of climate zones

Annual Meeting of the Association of American Geographers San Francisco, California 2007

- A further evaluation of the spatial and temporal variability of aerosols across North America: influence of lower tropospheric flow*
- Conference on Biometeorology and Aerobiology San Diego, California 2006
A survey of the public perception and response to heat warnings and advisories
- Annual Meeting of the Association of American Geographers Chicago, Illinois 2006
Heat warnings and the perception of vulnerability
- Annual Meeting of the American Meteorological Society Atlanta, Georgia 2006
A survey of the public perception and response to heat warnings and advisories
- Annual Meeting, East Lakes Division of the Association of American Geographers Bowling Green, Ohio 2005
Heat warnings and the perception of vulnerability
- International Congress of Biometeorology Garmisch, Germany 2005
Operational considerations in heat watch-warning system development
The perception of and response to heat warnings
- Annual Meeting of the Association of American Geographers Denver, Colorado 2005
Separating the effects of weather and pollution on acute human mortality
- Annual Meeting of the American Meteorological Society San Diego, California 2005
The design and operation of heat watch warning systems
- East Lakes Division of the Association of American Geographers Meeting Athens, Ohio 2004
Heat warnings: do people listen?
- Conference on Biometeorology and Aerobiology Vancouver, British Columbia 2004
Human perception and response to heat warnings
- Conference of the International Society for Environmental Epidemiology New York, New York 2004
A synoptic climatological approach to separate weather- and pollution-induced impacts on human mortality
- Annual Meeting of the Association of American Geographers Philadelphia, Pennsylvania 2004
A synoptic approach to evaluating the spatial and temporal variability of aerosols across North America
- Conference on Applied Climatology Seattle, Washington 2004
**Heat watch-warning systems: operational consideration and system design*
- Annual Meeting of the Association of American Geographers New Orleans, Louisiana 2003
North American weather-type frequency and teleconnection indices
- International Congress of Biometeorology Kansas City, Missouri 2002
Rural-urban differences in heat-related mortality in Ohio
- National Council for Geographic Education Philadelphia, Pennsylvania 2002
The Development of Heat Watch-Warning Systems for Cities Worldwide
- Conference on Applied Climatology Portland, Oregon 2002
Using a synoptic classification scheme to assess rural-urban differences in heat vulnerability
- North American Urban Heat Island Summit Toronto, Ontario 2002
The development of the new Toronto Heat-Health Alert System
- Annual Meeting of the Association of American Geographers Los Angeles, California 2002
Weather-related mortality in Ohio: county-by-county analysis
- Lilly West Conference Pomona, California 2002
Understanding the complexity of climate change through active learning
- East Lakes Division of the Association of American Geographers Meeting Cincinnati, Ohio 2001
Weather-related mortality in Ohio: county-by-county analysis
- Annual Meeting of the Association of American Geographers New York, New York 2001
Development of heat watch-warning systems for cities worldwide
- East Lakes / West Lakes Regional Meeting of the Association of American Geographers Oxford, Ohio 2000
Development of heat watch-warning systems for cities worldwide
- International Congress of Biometeorology / Urban Climatology Sydney, Australia 1999
An evaluation of the variability of air mass character between urban and rural areas

- Conference on Applied Climatology Dallas, Texas 1999
Redevelopment of a spatial synoptic classification for year-round application
- Global Warming 9 Conference Hong Kong 1998
Health watch/warning systems in urban areas
- Conference on Applied Climatology Reno, Nevada 1997
Using a synoptic classification system to assess climate trends and variability in Texas
- Southern Region (NOAA) Institutes Meeting College Station, Texas 1995
Lightning and precipitation relationships from the 15 - 19 October 1994 Southeast Texas Storm System

INVITED COLLOQUIUM AND SYMPOSIUM TALKS

- Department of Geography, University of Northern Illinois DeKalb, Illinois 2023
Heat in a changing climate – what are the limits of adaptation?
- Civil Engineering Program, Universidade Tecnológica Federal do Paraná Curitiba, Brazil 2023
Heat in a changing climate – what are the limits of adaptation?
- National Oceanic and Atmospheric Administration Speaker Series Virtual 2022
Heat vulnerability in a changing climate – can we acclimatize?
- Department of Geography, Ohio State University Columbus, Ohio 2022
Heat vulnerability in a changing climate – can we acclimatize?
- Department of Geography, Oklahoma State University Virtual 2021
Heat vulnerability in a changing climate – can we acclimatize?
- Department of Geography, Texas A&M University College Station, Texas 2019
Human Vulnerability to Heat Past, Present, Future
- Department of Physics, Kent State University Kent, Ohio 2018
Using self-organizing maps to understand the influence of the atmosphere on water level and quality
- Resilience Collaborative Seminar Series, Old Dominion University Norfolk, Virginia 2018
The role of atmospheric circulation patterns on short-term sea-level fluctuations along the eastern seaboard of the US
- Department of Geography, University of Northern Illinois DeKalb, Illinois 2017
Human Vulnerability to Heat Past, Present, Future
- Umea University Umeå, Sweden 2017
Recent climate change science and policy
- Institute of Science and the Environment, Mansfield University Mansfield, Pennsylvania 2017
The Way Forward in Climate Change Policy [KEYNOTE]
- Department of Geography, University of Georgia Athens, Georgia 2016
Human Vulnerability to Heat Past, Present, Future
- New York State Department of Health Albany, New York 2014
Temporal trends in heat-related mortality and morbidity
- Environment Canada 2014
Web-based hypothermia information: a critical assessment of Internet resources and a comparison to peer-reviewed literature (webinar; J. Spencer, lead presenter)
- New Frontiers Series, University of Toronto-Scarborough Toronto, Ontario 2014
Projecting the uncertainty in climate change and its impacts: a case study of heat-related mortality in California
- Department of Geosciences, University of Akron Akron, Ohio 2013
Projecting the uncertainty in climate change and its impacts: a case study of heat-related mortality in California
- California Air Resources Board Sacramento, California 2011
A Spatial Synoptic Classification Approach to Projected Heat Vulnerability in California under Future Climate Change Scenarios

- Climate Change: Impacts on Emergency Management and Homeland Security Symposium Akron, Ohio 2011
Climate change and the science of uncertainty
- Korean Meteorological Administration Seoul, South Korea 2010
The Scientific Basis of Heat Watch Warning Systems
- National Center for Public Health Chisinau, Moldova 2010
Communication, intervention, and mitigation activities in heat watch-warning systems
- Department of Earth Sciences, California University of Pennsylvania California, Pennsylvania 2007
Forecasting and mitigating heat-related mortality
- Department of Biological Sciences, Kent State University Kent, Ohio 2007
Forecasting and mitigating heat-related mortality
- Educating Ourselves about Climate Change, Cleveland Museum of Natural History Cleveland, Ohio 2006
Global climate change and human health
- Global Climate Change Symposium, John Carroll University Cleveland, Ohio 2006
What is global climate change?
- Department of Geography, University of Northern Illinois DeKalb, Illinois 2005
A synoptic climatological approach to separate weather- and pollution-induced impacts on human mortality
- Department of Geography, Ball State University Muncie, Indiana 2003
Spatial analysis of heat-related mortality: understanding and forecasting oppressive heat
- Ohio Weather Symposium Columbus, Ohio 2002
Understanding, forecasting, and mitigating heat-related mortality
- Celebration of Scholarship, Kent State University Kent, Ohio 2002
Heat-related mortality in Ohio
- Colloquium, West Virginia University, Department of Geography and Geology Morgantown, West Virginia 2001
Spatial analysis of heat-related mortality: understanding and forecasting oppressive heat

WORKSHOPS

- Hands on Sustainability 2025: The Year Of Water Akron, Ohio 2019
Climate Change Expert
- International Society of Biometeorology Students and New Professionals Workshop Norfolk, Virginia 2016
Discussant
- Expert Meeting for the Implementation of Bioclimatic and Biometeorological Forecasts in Latin America and the Caribbean Havana, Cuba 2015
Biometeorological warnings: Perception and response
- International Society of Biometeorology Students and New Professionals Workshop Vindeln, Sweden 2014
The Spatial Synoptic Classification and Applications
- Translating Science/Telling Stories- What we talk about when we talk about Climate Change Cleveland, Ohio 2012
Climate Change and Health in the Great Lakes Region
- Measuring the costs of climate change to public health, Union of Concerned Scientists Boston, Massachusetts 2011
Discussant
- Workshop participant, Climate Prediction Applications Science Workshop Des Moines, Iowa 2011
Excessive heat and health
- NCAR Workshop on Climate and Health Topic: Effects of Heat Waves and Air Pollution Boulder, Colorado 2009
Adaptation
- Public Health Response to Climate Change: Effective Health Communication and Marketing Fairfax, Virginia 2008
Discussant

NSF Graduate Teaching Fellows in K-12 Education Project Meeting Washington, District of Columbia 2008
GK-12 in Iceland

Workshop on Excessive Heat: Confronting climate change, vulnerability, and urbanization by improving heat-health services, mitigation strategies, and communication Phoenix, Arizona 2007
Heat warning perception and communication.

Heat-Health Watch-Warning System Workshop, Department of Public Health Montreal, Quebec 2006
Heat vulnerability and HWWS development in smaller locations
The development and implementation of synoptic heat-watch warning systems

Climate Change and Adaptation Strategies for Human Health Workshop on Vulnerability to Thermal Stresses Freiburg, Germany 2003
Heat-health warning systems: overview

PHEWE Heat Stress Watch Warning System Group Meeting Freiburg, Germany 2003
Watch-warning systems: scientific basis and operational principles

PUBLIC TALKS

League of Women Voters Fairlawn, Ohio 2018
Climate Change

Symposium speaker, Cleveland Botanical Garden Cleveland, Ohio 2013
Climate Change

Adult Development and Well-being program, Kent State University Kent, Ohio 2008
Older adults and the heat

Metro Parks, Serving Summit County, Akron, Ohio 2007
Climate change and health: global and local impacts.

Kent Environmental Forum Kent, Ohio 2006
Global climate change.

Wolf Creek Environmental Center Medina, Ohio 2005
Global warming

Earth Day Forum, Kent State University Kent, Ohio 2002
Climate change and health impacts

Meeting of the Northeast Ohio Chapter of the American Meteorological Society Kent, Ohio 2002
Understanding and forecasting oppressive heat

TELEVISION

Forum 360 (TV) Hudson, Ohio 2018
Panelist on *Climate Change*