TEXAS STATE VITA

I. Academic/Professional Background

A. Name: Richard W. Dixon Title: Professor

B. Educational Background

Degree	Year	University	Major	Thesis/Dissertation
BS	1977	Rutgers University	Meteorology & Physical Oceanography	
MAGeo	1992	Southwest Texas State University	Geography	Climatology of Summer Heat Stress Hazard in Texas
PhD	1996	Texas A&M University	Geography	Heat Stress Hazard in the Southern United States: An Evaluation Using a Climatological and Demographic Model

C. University Experience

Position	University	Dates
Professor	Texas State University	9/13 – present
Associate Professor	Texas State University	9/03 – 8/13
Assistant Professor	Texas State University	9/98 – 8/03
Lecturer	Texas State University	9/95 – 8/98
Instructor	Blinn College	1/95 – 5/95
Graduate Teaching Assistant	Texas A&M University	9/92 – 12/92 and 9/94 – 5/95
Graduate Teaching Assistant	Southwest Texas State University	1/91 – 6/92

D. Relevant Professional Experience

Position	Entity	Dates
Oceanographer	Pacific Missile Test Center (Civil Service)	9/79 – 6/90
Field Systems Engineer	The Analysts – MWD	10/78 – 9/79
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II. TEACHING

A. Teaching Honors and Awards:

AWARDS (National)

2006 Distinguished Teaching Achievement Award, National Council for Geographic Education.

AWARDS (Local)

2022 Department Outstanding Service Award

2020 Teaching Award of Honor, Texas State University Alumni Association

2010 Favorite Professor. Alfred H. Nolle Chapter, Alpha Chi National College Honor Society.

2009 Presidential Excellence Award (Dean Nominee), Teaching, Texas State University.

2006 Outstanding Professor Award, Department of Geography, Graduate Student Forum.

2004 Outstanding Professor Award, Department of Geography, Graduate Student Forum.

B. Courses Taught:

Graduate course in Environmental Systems
Graduate course in Physical Geography of the World's Oceans
Graduate course in Hydroclimatology
Graduate course in Air Quality Management
Graduate course in Ecological Climatology
Graduate course in Extreme Weather and Climate
Graduate course in Climate Change
Graduate course in Advanced Research Design and Techniques
Graduate course in Geography of Natural Hazards
Graduate course in Nature and Philosophy of Geography
Graduate course in Advanced Quantitative Methods
Graduate course in Multivariate Quantitative Methods
Graduate course in Research Design and Techniques
Graduate course in Field Methods
Graduate course in Environmental Management
Graduate course in Environmental Geography of the Coastal Zone
Fourth-year course in Air Quality Management
Fourth-year course in Regional Field Studies (Team Taught) Geography of Terrorism
Fourth-year course in Field Methods
Fourth-year course in Planning Methods
Fourth-year course in Environmental Management
Fourth-year course in Natural Hazards and Land Use
Third-year course in Climatology
Third-year course in Meteorology and Applied Climatology
Third-year course in Oceanography

Third-year course in Quantitative Methods
Third-year course in Energy Resource Management
Third-year course in United States & Canada
First-year course in Meteorology
First-year course in World Regional Geography
First-year course in Introduction to Meteorology with Lab

C. Graduate Theses/Dissertations or Exit Committees.

MAG/MS STUDENTS: COMPLETED AS SUPERVISOR

August 1997, Elizabeth McDowell. Sedimentation in Lake Buchanan.

May 1999, Julie Henry. Changes in the Growing Season for the Great Plains Region of the United States: 1911-1990.

May 2000, Scott Horel. A Climate Classification of North America Using Multivariate Statistical Techniques.

August 2000, Philip Caldwell. Edge Marsh Delineation with GIS and DOQQs for Fishery Biology.

May 2001, Shari Forbes. Mapping the Historic Range of the Grizzly Bear.

May 2002, Cody Rogers. The Application of Climatic Features in the Design of an Energy Efficient Single Family Residence in Austin, Texas.

May 2002, Jessica (Fox) Sackett. Creating A New Index: Modifying the Palmer Drought Severity Index for Texas Droughts Based on Evaporation and Precipitation Data.

December 2002, Emariana Taylor. Parturition Timing and Precipitation in Mexican Free-tail Bat (*Tadarida braziliensis mexicana*) Colonies in Central Texas.

May 2003, Steven Schulze. Identification, Evaluation, and Selection of Water Management Strategies Facing the Lower Colorado River Authority.

December 2003, Lori Grimm. Impact of ENSO phase on North Texas Climate.

August 2004, Bitsy Connor. Changing Streamflow Patterns in Glacier National Park.

December 2005, Amy Kroger. Spatial Distribution of Corrosion Issues in San Antonio Sewer System.

December 2005, Nikki Williams. Relationship Between Increase in Dengue Fever Cases and Weather Variation in Texas, 1995-2003.

May 2006, Lara Bryant. Demographic Characteristics of Users of Texas State Parks.

December 2006, Hector Padilla. 3-D Floodplain Mapping of Waller Creek, Texas.

December 2006, Tia Brumgard. Climatology of Dust Storms in Iraq.

December 2006, Zac Martin. Rainwater Harvesting Potential for Austin, TX.

May 2007, Susan Peters. Climatology of Severe Winter Weather in Texas.

May 2007, Matt Chambers. Teaching the K/T Boundary Extinction as an Example of Texas-Mexico Environmental Geography Education.

August 2007, Robert Roberts. Investigation of Solar Radiation Data in Texas.

December 2007, Daniel Ray. Reclaimed Water Use for Irrigation on Texas Golf Courses.

December 2008, Jessica Morgan. Impacts of ENSO Phase on Worldwide Shark Attacks.

May 2009, Joseph Touchet. Military Geography of the Iraqi Elections.

May 2009, Todd Moore. Climatology of Hurricane Induced Tornadoes Along the Gulf Coast.

August 2009, Elizabeth Ray. Climate Change Awareness Among Texas State Geography Graduates.

May 2010, Susan Street. Long-term Trends in Precipitation Events in Texas.

August 2011, Lauren Lamm. The Urban Chicken: A Multivariate Model of Fowl Ordinances in Texas.

December 2011, Erik Urbizu. Environmental Stewardship Certification Programs for US Golf Courses.

December 2011, Eric Wettengel. Ice-jam on the Brazos River; January 1941.

May 2012, Colby Eaves. Exploratory Analysis of 2009 Barnet Shale Special Inventory.

May 2012, Kevin Beahan. Observations of Injection Pressure and Seismicity in the Case of the Guy-Greenbrier Earthquake Swarm of Central Arkansas, 2010-2011.

August 2012, Cortney Wenzel. A Case Study – Hydraulic Fracturing Geography: The Case of the Eagle Ford Shale, TX USA.

May 2013, Philip Anderson. Impact of Weather on Daily Visitation Rates: USACE Canyon Lake Recreation Area, TX.

December 2014, Andrew Rudin. Evaluation of a karst flow model for the Barton Creek segment of the Edwards Aquifer.

December 2014, Lauren Johnson. The role of tropical cyclone landfall azimuth in tornado production.

May 2015, Dana Scanes Packer. Risk Analysis of Dengue Fever Occurrence in Texas Using Climatological, Demographic, and Building Data.

December 2015, Kathryn Onley. Coastal Vulnerability Assessment of Galveston Island to Future Inundation and Sea-Level Rise.

December 2016, Adam Clark. Examining the Use of a Contraflow Evacuation Model for Tropical Cyclone Evacuation in Nueces County Texas.

May 2017, James Hervey. Baseline Climatology of Sounding-Measured Variates Associated with Atlantic and Gulf Coast Tropical Cyclone Tornado Clusters.

May 2017, Saber Brasher. Trends and Characteristics of North Atlantic Tropical Cyclones.

September 2018, Lauren Torterat. Historical Review of Texas Drought. Master 2 Mention GAED Diploma TELENVI Specialty, University Rennes 2 and Agrocampus Ouest, France. Co-advisor with V. Dubreuil, Rennes 2.

May 2019, Amanda Wood. Coastal Erosion Impacts on Sea Turtle Nesting Sites in Padre Island National Seashore, Texas.

May 2019, Elizabeth Hitzfelder. Morphology Aspects of Big Bend National Park, Texas.

May 2022. Jessica Meyer. A Quantitative Analysis of Tropical Cyclone Frequency within the Arabian Sea and Bay of Bengal.

December 2025. Christie King. Examining the Connection Between Guam's Seasonal Rainfall and ENSO.

Ph.D. STUDENTS: COMPLETED AS SUPERVISOR

December 2004, Jonathan Herbert. Predicting Climate Change in Big Bend National Park, Texas.

December 2006, Darlene Gutierrez. Perception of Indigenous Natives to Storm Surge Impacts from Philippine Island Typhoons.

December 2006, Brian Brettschneider. Estimating Atlantic Basin Hurricane Landfall Probabilities for the United States.

December 2006, Glen Fitz. Geographic Analysis of the Lost Sea of the Exodus.

August 2007, Bharati Ayyalasomayajula. Modeling Indian Monsoon Rainfall Using GIS.

August 2008, David Viertel. Linkages Between Urban Form and Socio-Demographic Experience in San Antonio, Texas.

May 2010, Rebecca Parylak. The Spatial and Temporal Patterns of Precipitation in Texas.

May 2012, Johanna Ostling. Behavioral Response of Hotel Employees to Hurricane Warnings on Grand Cayman, The Cayman Islands.

August 2012, Kevin Barrett. The Spatial Distribution of Contiguous United States Thunderstorm Related Short-Fuse Severe Weather Warnings.

May 2013, Todd Moore. A Statistical and Synoptic Climatology of Tropical Cyclone Tornado Outbreaks.

May 2017, Paul Zunkel. The Sensation-Seeking and Motivational Dimensions of Storm Chasers.

December 2019, Paepin Goff. Rock Glaciers as Water Towers in the Greater Yellowstone Ecosystem.

May 2020, Joshua Hodge. Hurricane Storm Deposits in the Coastal Salt Marsh of McFadden NWR, Texas.

December 2022, Shayne O'Brien. Controls on North Atlantic Iceberg Occurrence.

December 2025. Amy Borgens. Beachfront "Archeo"-Property: Geographical Examination of Texas Coastal Archeological Sites in an Ever Changing Environment.

MAG/MS STUDENTS: CURRENT SUPERVSOR

Ph.D. STUDENTS: CURRENT SUPERVISOR

MAG/MS STUDENTS: RESEARCH COMMITTEE MEMBER

December 1997, Jenny Lanning-Rush. Extreme Precipitation Depths for Texas. Advisor: Dr. Blanchard.

May 1998, Stephanie Braswell. A Comparison of Austin and San Antonio Residential Water Use During Two Years of Drought Induced Conservation. Advisor: Dr. Peterson

May 1999, Reed Dickerson. ENSO Effects in the Austin-San Antonio-Del Rio Region. Advisor: Dr. Blanchard.

May 2000, Wendy Bigler. Beaver Pond Sequences in Northwest Montana: Morphology and Sedimentation. Advisor: Dr. Butler.

May 2001, Wade Martyn. Geographic Analysis of the Evolution of the Color Infrared Format. Advisor: Dr. Eyton.

August 2001, Michelle Drost. Living Near Toxic Facilities: Characteristics of Three Texas Counties. Advisor: Dr. Tiefenbacher.

August 2001, Jon Hood. What Impact has California's MTBE Use had on Areas of Production Since RFG was Mandated Statewide in 1996? Advisor: Dr. Shelly.

December 2001, Ellen Lewis. Hazard Mitigation Incorporated in Post-hurricane Reconstruction on a Florida Barrier Island. Advisor: Dr. Showalter.

December 2001, Michelle Pulich. Where Words and Seeds Meet: An Ecological Restoration Project in Matagorda County Coastal Prairie. Advisor: Dr. Shelly.

December 2001, Jimmy Tyree. Evaluation of a Beach Nourishment Project at Surfside Beach, Texas. Advisor: Dr. Blanchard.

May 2003, Carol Sawyer. Aerial-Photographic Inventory and Analysis of Landslides in Northeastern Yellowstone National Park, Wyoming. Advisor: Dr. Butler.

May 2003, Gayla Malson. Climate Classification of Texas: A Multivariate Statistical Approach. Advisor: Dr. Eyton.

May 2003, David Viertel. Lidar Evaluation of Housing Characteristics: Austin, Texas. Advisor: Dr. Eyton.

August 2004, Carol Reidy. Evaluation of a Junior Master Naturalist Curriculum. Advisor: Dr. Earl.

December 2004, Jennifer Schoenfeld. Geographic Criteria in Redistricting Texas: 2001, 2003. Advisor: Dr. Bryan.

May 2005, Beth Cooper. What Are High School Students' Perceptions of Environmental Problems in their Community? Advisor: Dr. Stea.

May 2005, Abigail Squires. A Geographic Understanding of Victims of Burglary in San Antonio, TX. Advisor: Dr. Lu.

May 2005, Rachel Bailey. National Geography Standards Inclusion in Mandatory and Voluntary State Curriculum Frameworks. Advisor: Dr. Boehm.

May 2005, Gwen Brunet. Viability of Rainwater Catchment Systems: Estimates for the San Antonio, Texas Water Systems. Advisor: Dr. Earl.

December 2005, Keith Smith. Geographic Factors in Manufacturing Housing Siting. Advisor: Dr. Day

December 2005, John Klier. Remote Sensing Techniques for Property Evaluation. Advisor: Dr. Eyton.

December 2005, Allison Echlin. Interactions Between Fire and Phytophagous Insects in Glacier National Park, Montana. Advisor: Dr. Butler.

May 2006, Ellen Cagle. Impact of Feral Hog Disturbance on Golden Cheek Warbler Habitat. Advisor: Dr. Butler.

May 2006, Joseph Kleeman. Population Change in Texas Panhandle Counties. Advisor: Dr. Day.

May 2008, Patricia Foran. The Effect of Antecedent Dry Days on Water Quality Inflow and Outflow to Wet Ponds and Pollutant Removal Efficiency. Advisor: Dr. Earl.

May 2008, Kathleen Terry. Hurricane Damage in Nueces County: How Building Codes Effect Hurricane Loss Estimates. Advisor: Dr. Fuhrmann.

August 2008, Robert Bricker. The Changing Mouth of the Colorado River at Matagorda, TX. Advisor: Dr. Earl.

August 2009, Diane Farnsworth. Analysis of Morning and Afternoon Temperatures From Three Stations in Glacier National Park, Montana, February 2009. Advisor: Dr. Butler.

December 2009, Clayton Hahn. Fishing Preferences and Attitudes Among College Student Anglers. Advisor: Dr. Hagelman.

May 2010, Shelly Miller. Comparative Study of the Spatial Organization and Zoogeomorphic Effects of Black-tailed Prairie Dogs. Advisor: Dr. Butler.

August 2010, Kaitlin Murphy. Signature Hydrological and Meteorological Conditions Leading to Ice Jam Formation and Breakup on the Flathead River, Glacier National Park, Montana. Advisor: Dr. Butler.

August 2010, Barbara Grahmann. Attitudes of College Students Toward Nuclear Power. Advisor: Dr. Hagelman.

December 2010, Melissa Fuechec. Epiphytic Lichen Distribution as Bioindication of Air Quality in Austin, Texas. Advisor: Dr. Butler.

December 2011, Vanessa Lavender. Temporal and Spatial analysis of a Central Texas Stream: How Does Hog Creek Impact Cypress Creek.

May 2011, William Rugeley. Flooding Along the Guadalupe River in Comal County, Texas: A GIS Analysis. Advisor: Dr. Hagelman.

May 2011, Lindsey McKnight. Risk Analysis of Water Resources from CAFO Activity in Central Texas. Advisor: Dr. Butler.

May 2011, John Hjort. Freshwater Bacterial Impairment in Texas: Policy Evaluation and Assessment of Effectiveness. Advisor: Dr. Earl.

May 2012, Hutton Supanic. Effects of Feral Hogs on the Central Texas Landscape. Advisor: Dr. Butler

August 2012, Clint Edwards. Climate Impacts on White-tailed Deer Populations in South Texas. Advisor: Dr. Jensen.

December 2012, Michael Sleed. Land Use and Water Issues in Austin, TX. Advisor: Dr. Hagelman.

December 2012, Brittany Courville. Lake Water Quality and Clarity, East-Central Maine. Advisor: Dr. Jensen.

May 2013, Larry Hargrave. Weather and Hops Production in Washington State. Advisor: Dr. Tiefenbacher.

May 2013, Taylor Christian. Beaver Pond Morphology in GNP. Advisor: Dr. Butler.

May 2014, Jason Lockie. Risk of earthquakes associated with fracking in Texas. Advisor: Dr. Butler.

May 2014, Scott Sandman. Evaluation of geomorphology visualizations for secondary school geography classes. Advisor: Dr. Butler.

August 2014, Kara Denney. Analyzing beaver morphology using GIS. Advisor: Dr. Butler.

December 2014, Yuanda Liu. Urban development along a major interstate highway. Advisor: Dr. Zhan.

August 2015. Rachel Cavin. Beaver Dam Dimensions and Distribution in Northeastern New Mexico. Advisor: Dr. Butler.

May 2016. Faisal Anzah. Detecting the Shoreline Change of Qaruh Island, Kuwait, Using Remote Sensing and GIS. Advisor: Dr. Butler.

May 2016. Brittany Legg. Rock Glacier Morphology and Morphometry in Glacier National Park, Northwest Montana, USA. Advisor: Dr. Butler.

May 2016. Laura Engalls. Assessing the Risk of Debris Flow Occurrences in Mountainous Recreation Environments Facing Climate Variability: An Application in Glacier National Park. Advisor: Dr. Butler.

August 2016. Jennifer Villa. Women in Geomorphology. Advisor: Dr. Butler.

May 2018. Stacey Haddad. Mapping the Spread of Ebola in Africa. Advisor: Dr. Butler.

August 2018. Andrea Pinon. Scratching the Surface: A Content Analysis of Gorillas as Zoogeomorphic Agents. Advisor: Dr. Butler.

August 2018. Abdullatif Alyaqout. Water Depth Mapping of Hurricane Harvey Using Volunteered Geographic Information in Harris County, Texas. Advisor: Dr. Chow.

December 2018. Anna Capri Perez. Historical Range of the Porcupine, Geomorphic Agent. MS Sustainability Studies. Advisor: Dr. Butler.

August 2019. Aiden McClennan. Determinants of Barn Swallow Nesting Sites at White Sands national Monument, NM. Advisor: Dr. Butler.

August 2025. Amanda Barney. Local Environmental Responses to Regional Climatic Changes During the Holocene: A Case Study from Palmetto State Park, Texas. Advisor: Dr. Krause.

MAG/MS STUDENTS: CURRENT RESEARCH COMMITTEE MEMBER

Thompson, Elise. Topic: Climate-Induced Migration in Latin America. Advisor: Dr. Blue.

Ph.D. STUDENTS: RESEARCH COMMITTEE MEMBER

May 2000, Lisa DeChano. Geohazard Perception in Glacier National Park, Montana, USA. Advisor: Dr. Butler.

May 2002, William Monfredo. Tornado Scars: Long Term Imprints of Disaster on the Texas Landscape. Advisor: Dr. Tiefenbacher.

August 2002, Lisa Prosperie. Visualizing Volcanic Hazards: A Systematic Approach Using National Land Cover Data for Sustainable Mitigation. Advisor: Dr. Eyton.

May 2004, Lynn Resler. Microclimate/Plant Interactions in Glacier National Park. Advisor: Dr. Butler.

August 2004, Forrest Wilkerson. Magnitude and Frequency of Debris Flows in Glacier National Park. Advisor: Dr. Butler.

December 2004, Ginger Schmid. Soil/Climate Interactions in Glacier National Park. Advisor: Dr. Butler.

December 2005, David Rutherford. An Investigation into Geography's Subject Matter and Disciplinary Identities through the Lens of Geographic Education. Advisor: Dr. Boehm.

May 2006, Elaine Foster. Longitudinal Study of Changing Attitudes to Geography Education. Advisor: Dr. Boehm

August 2006, Dawna Cerney. Landscape Change in Waterton National Park. Advisor: Dr. Butler.

December 2006, Nancy Middlebrook. Content Analysis of Map Use in Geography Textbooks. Advisor: Dr. Petersen

May 2007, Tom Nolan. Geographic Analysis of Sergeant York Battlefield Using Historical GIS. Advisor: Dr. Giordano.

December 2007, Carol Sawyer. Frost Heaving and Surface Clast Movement in Turf-Banked Terraces, Eastern Glacier National Park, Montana. Advisor: Dr. Butler.

May 2008, Zachary Moore. Evolution of Geography in the United States' Public School Curriculum: an Analysis of the Influence of Societal Movements and Historical Events. Advisor: Dr. Boehm.

December 2008, Brian Earle. Phenomenographic Analysis of Elementary Teacher Candidates Conception of Geography. Advisor: Dr. Boehm.

May 2009, Audrey Mohan. Factors Influencing Teacher's Career Choices in Geography Education. Advisor: Dr. Boehm.

May 2009, Christopher Murr. Assessing Potential Barriers to the Transmission and Learning of Geographic Knowledge to the Visually Impaired. Advisor: Dr. Boehm.

August 2009, Emariana Taylor. Landscape Ecology and Mexican Free-tail Bat Colonization. Advisor: Dr. Butler.

May 2010, Melody Warren. Geography Education Concepts in US National Parks. Advisor: Dr. Muniz.

December 2010, Joey Boggess. Implementation of Environmental Regulation on US Air Force Installations. Advisor: Dr. Blanchard.

May 2011, Christopher Day. Statistical Downscaling of Climate Data for Western Water Resources. Advisor: Dr. Fonstad.

August 2011, Eric Samson. Land Organization and Conflict in Rural Chiapas, Mexico. Advisor: Dr. Blanchard.

August 2011, Mindy Conyers. The Fluvial Geomorphology of the Upper Animas River Basin, Colorado. Advisor: Dr. Fonstad.

August 2012, Steve Tsikalas. Geomorphic Impacts of Swallow Nests. Advisor: Dr. Butler.

August 2012, Clayton Whitesides. Alpine Treeline Disturbance from Burrowing Animals. Advisor: Dr. Butler.

December 2012, Christie Townsend. Natural Hazard Awareness of Texas Viticulturists. Advisor: Dr. Butler.

December 2012, Bernie Fang. A Pseudo Individual Near Real-Time Measurement for Assessing Air Pollution Exposure in Selected Texas Cities. Advisor: Dr. Lu.

May 2013, Andrew Sansom. Evaluation of a Student Environmental Learning Program at Spring Lake, TX. Advisor: Dr. Boehm.

May 2013, Melanie Stein. Impacts of Fire on Treeline in Glacier National Park. Advisor: Dr. Butler.

August 2013, Roberto Campos. Modeling of Dengue Fever in Costa Rica. Advisor: Dr. Fuhrmann.

December 2013, Larry Kleitches. Geoeducational Agents: The Role of Motion Pictures and Television Programs in the Recognition of Landscapes. Advisor: Dr. Butler.

May 2014, Adam Mathews. Use of remote sensing and visualization techniques in evaluating vineyard health. Advisor: Dr. Jensen.

May 2015. Mary Curtis. Analyzing the Diffusion of Geospatial Technologies as Instructional Tools in High School Geography Education. Advisor: Dr. Boehm.

December 2015. Christa Farano. An Analysis of Travel Efficiency Within the Context of Geographic Education and the Daily Trip Plan. Advisor: Dr. Boehm.

May 2017, John Wamsley. Climate Change Impacts on Reptiles and Amphibians. Advisor: Dr. Butler.

May 2017, Greg Klaus. Ice-throw Risk Associated With Wind Turbines. Advisor: Dr. Blanchard.

May 2017, Tamara Biegas. Adolescent Overweight and Obesity: A Geographic Inquiry. Advisor: Dr. Lu.

December 2017, Ross Martin. Geomorphic Impact of Mountain Bikes on Trail Systems. Advisor: Dr. Butler.

December 2018, Joann Zadrozny. An Analysis of the Alignment Between National and State Geography Standards. Advisor: Dr. Boehm.

May 2019, Faisal Anzah. Zoogeomorphic Aspects of Family Campsites in Kuwait. Advisor: Dr. Butler.

August 2019, Susan Street. Use of Social Media in Warning and Evacuation: Houston During Hurricane Harvey. Advisor: Dr. Blanchard.

August 2019, Francesco Zignol. Impact of Climate Change on Water Resources in the Flathead Reservation Montana. Advisor: Dr. Giordano.

Ph.D. STUDENTS: CURRENT RESEARCH COMMITTEE MEMBER

Mills, David. Topic: Predicting Air Quality at FEM/FRM Sensors Using Unregulated Open-Source Air Quality Data. Multivariate Analysis, and Machine Learning Algorithms. Advisor: Dr. Lu.

Griffith, Lisa. Topic: TBD. Advisor: Dr. Boehm.

Scott, Jeff. Topic: Community Use of Atlas 14 and Flood Hazard Behavior. Advisor: Dr. Blanchard.

D. Courses Prepared and Curriculum Development:

Graduate Course in Environmental Systems
Graduate course in Physical Geography of the World's Oceans.
Graduate Course in Hydroclimatology
Graduate Course in Extreme Weather and Climate
Graduate Course in Ecological Climatology
Graduate Course in Climate Change
Graduate Course in Geodesy for Geographers and GIScience
Graduate Course in Environmental Geography of the Coastal Zone
Fourth-year Course in Air Quality Management
Fourth-year Course in Environmental Geography of the Yellowstone Region
Second-year Course in Introduction to Environmental Geography
First-year Course in Introduction to Meteorology with Lab
First-year Course in Meteorology

III. SCHOLARLY/CREATIVE

A. Works in Print

1. Books (if not refereed, please indicate)

d. Refereed Chapters in Books

Dixon, Richard W. "Impact of ENSO Phase on Australian Shark Attack Frequency." In Rohli, R.V. and T.A. Joyner (eds.), Selected Readings in Applied Climatology. Newcastle-upon-Tyne: Cambridge Scholars Publishing. 2015.

Dixon, Richard W. "Training the Force: Bioclimatological Considerations For Military Basic Training." In Palka, Eugene J. and Francis A. Galgano, Jr. Military Geography: From Peace To War. Boston: McGraw Hill. 2005.

Dixon, Richard W. "Military Affairs and Climate." In Oliver, J. 2005. Encyclopedia of World Climatology. Dordrecht: Springer Publishing.

Dixon, Richard W. “The Battle of New Orleans: A Physical Geographic Analysis.” In Harmon, R., J. Ehlen, and D. Caldwell, Eds. 2004. Studies in Military Geology and Geography. Dordrecht: Kluwer Academic Publishers.

Dixon, Richard W. “Bioclimatological Considerations for Military Basic Training.” In Palka, Eugene J. and Francis A. Galgano, Jr. The Scope of Military Geography: Across The Spectrum from Peacetime to War. New York: McGraw Hill. 2001.

Dixon, Richard W. "Baseline Climatology of Summer Heat Stress Hazard in Texas." in Norwine, J., J. R. Giardino, G.R. North, and J.B. Valdes, Eds., The Changing Climate of Texas: Predictability and Implications for the Future. College Station: GeoBooks. 1995.

2. Articles

a. Refereed Journal Articles.

Dixon, Richard W. “Rip Current Mortality in the Coastal Zone of the United States and Its Territories: 2000-2024.” *Advances in Hydrology & Meteorology”* ONLINE April 2025. DOI: 10.33552/AHM.2025.02.000549.

Hodge, Joshua, Clayton Whitesides, Richard Dixon, and Michelle White. “Enhancing the Record of Hurricane Storm Surge Sedimentation on East Texas Gulf Coast Marshes: Variations in Sediment Distribution in the Right-front Quadrant of Hurricane Ike.” *Papers in Applied Geography”* Vol 11(2) 2025, p. 119-140

Dixon, Richard W., Shayne R. O’Brien, and Joshua B. Hodge. “The Oceanography of Cuchlaine A. M. King.” *Progress in Physical Geography* Vol 45(3) 2021, p. 460-463.

Dixon, Richard W. “Texas Hurricane Landfalls: A Case Study for Understanding Circular Distributions and Geographic Data.” *Annals of Geographical Studies* Vol 4 (1) 2021, p. 13-15.

Clark, Adam, Ronald Hagelman, and Richard Dixon. “Modelling a Contraflow Evacuation Method for Tropical Cyclone Evacuations in Nueces County, Texas.” *Natural Hazards* Vol 103 2020, p. 2757-2786.

Dixon, Richard. “Differing Approaches to Regional Climatology: Kendrick and Rumney.” *Progress in Physical Geography* Vol 44(6) 2020, p.971-977.

Anzah, Faisal, Joshua Hodge, and Richard Dixon. “H.T.U. Smith (1965) Dune Morphology and Chronology in Central and Western Nebraska.” *Progress in Physical Geography* Vol 43(6) 2019, p.855-861.

Dixon, Richard, James Hervey, Todd Moore, and Christi Townsend. “Baseline Climatology of Sounding-Measured Variates Associated with Atlantic and Gulf Coast Tropical Cyclone Tornado Clusters.” *Papers in Applied Geography.* Vol 4(1) 2018. p. 113-121.

Dixon, Richard and Jonathan Herbert. “Glenn T. Trewartha’s The Earth’s Problem Climates (1961).” *Progress in Physical Geography.* Vol 42 (1) 2018, p. 128-133.

Hodge, Joshua, Faisal Anzah, and Richard Dixon. ”Miles O. Hayes, Hurricanes as Geological Agents: Case Studies of Hurricanes Carla 1961, and Cindy 1963 (1967).” *Progress in Physical Geography* Vol 42(2) 2018, p.257-264.

Anzah, Faisal A., David R. Butler, and Richard W. Dixon. “The Effects of Physical Landscape Variables on Burrow-Site Selection in the Kuwaiti Desert by Lesser Egyptian Jerboa (*Jaculus jaculus*).” *Papers In Applied Geography.* Vol 3(1) 2017, p.44-51.

Moore, Todd W., Richard W. Dixon, and Nicolas J. Sokol. “Tropical Cyclone Ivan’s Tornado Cluster in the Mid-Atlantic Region of the United States on 17-18 September 2004.” *Physical Geography”* Vol 37 (3-4) 2016, p. 210-227.

Dixon, Richard W., Todd W. Moore, and Christi G. Townsend. “Baseline Climatology of Sounding-Derived Parameters Associated with Atlantic and Gulf Coast Tropical Cyclone Tornado Clusters.” *Papers in Applied Geography*. Vol 2 (2) 2016, p. 129-136.

Townsend, Christi G., David R. Butler, and Richard W. Dixon. “The Challenge of Growing Wine Grapes in the Hill Country: An Evaluation of Changing Grower Perceptions of Natural Hazards in Texas Vineyards.” *Papers In Applied Geography*. Vol. 2(1) 2016, p. 105-112.

Dixon, Richard W. and Todd W. Moore. “The Relationship Between the Madden-Julian Oscillation and Tropical Cyclone Tornado Clusters.” *Papers in Applied Geography.* Vol. 1 (1) 2015, p. 86-89.

Dixon, Richard W., S. Peters, and C. Townsend. “Burrowing Preferences of Atlantic Ghost Crab, *Ocypode quadrata*, in Relation to Sand Compaction in Padre Island National Seashore, Texas.” *Physical Geography*. Vol. 36(3) 2015, p.188-201.

Moore, Todd W. and Richard W. Dixon. “A Spatio-temporal Analysis and Description of Hurricane Ivan’s (2004) Tornado Clusters.” *Papers in Applied Geography.* Vol. 1 (2)2015, 192-196.

Moore, Todd W. and Richard W. Dixon. “Patterns in 500hPa Geopotential Height Associated with Temporal Clusters of Tropical Cyclone Tornadoes.” *Meteorological Applications*. ONLINE January 2014. DOI:10.1002/met1456.

Courville, Brittany C., Jennifer L.R. Jensen, Richard W. Dixon, and Mark A. Fonstad. “A Landsat-based evaluation of lake water clarity in Maine lakes.” *Physical Geography*. Vol. 35 (4) April 2014, p. 355-368.

Dixon, Richard W. “Climate and Man: The 1941 Yearbook of Agriculture.” *Progress in Physical Geography*. Vol. 37(4), August 2013, p. 562-566.

Moore, Todd W. and Richard W. Dixon. “Preliminary analysis of the Synoptic-Scale Environment Associated with Tropical Cyclone Tornado Clusters, 1995-2010.” *Papers in Applied Geography.* Vol. 36, October 2013, p. 1-10.

Parylak, Rebecca K. and Richard W. Dixon. “Precipitation Variability Trends in Texas, 1932-2011. *Papers in Applied Geography*. Vol. 36, October 2013, p. 358-366.

Barrett, Kevin M. and Richard W. Dixon. “NDVI Analysis of Hail Swaths Associated with the May 5, 1995 Parker County and Tarrant County, Texas Hailstorm.” *National Weather Association Digest*. Vol. 36(1), August 2012, p. 1-10.

Moore, Todd W. and Richard W. Dixon. “Tropical Cyclone-Tornado Casualties.” *Natural Hazards*. Vol. 61(2), February 2012, p. 621-634. DOI 10.1007/s11069-011-0050-z.

Dixon, Richard W. and Todd W. Moore. “Tornado Vulnerability in Texas.” *Weather Climate and Society*. Vol. 4(1), January 2012, p. 59-68.

Dixon, Richard W. and Todd W. Moore. “Trend Detection in Texas Temperature and Precipitation.” *Southwestern Geographer*. Vol 15, November 2011, p. 80-103.

Moore, Todd and Richard W. Dixon. “Climatological Description of Tornadoes Associated with Gulf-Coast Landfalling Hurricanes.” *The Geographical Review*, Vol. 101(3), July 2011, 371-395.

Ostling, Johanna L., David R. Butler, and Richard W. Dixon. “The Biogeomorphology of Mangroves and Their Role in Natural Hazards Mitigation.” *Geography Compass*. Vol. 3(5) July 2009, p. 1607-1624. ONLINE.

Dixon, Richard W. and Daniel J. Ray. “Reclaimed Water Use for Irrigation of Texas Golf Courses.” ONLINE 19 May 2008, *Applied Turfgrass Science*. doi 10.1094/ATS-2008-0519-01-RS.

Bailey, Rachel M. and Richard W. Dixon. “National Geography Standards Inclusion in Mandatory and Voluntary State Curriculum Frameworks.” *Research in Geographic Education*. Vol. 9(2) December 2007, p. 104-123.

Dixon, Richard W., Rebecca P. Brown, and Jonathan Herbert. “Historical Climatology of South Texas Tornadoes: Frequency, Magnitude, and Vulnerability.” *South Texas Studies Journal*. 2006, p. 100-116.

Earl, Richard and Richard W. Dixon. “Reassessment of Storm and Flood Probabilities in South-Central Texas.” *Physical Geography*, Vol. 26(5), September-October 2005, p. 365-378.

Dixon, Richard W., J. Ronald Eyton, and David R. Butler. “Stereo Photography for Flood Hazard Recovery Visualization.” *Physical Geography*, Vol. 26(5), September-October, 2005, p. 409-422.

Butler, David R., Richard W. Dixon, and J. Ronald Eyton. “Introduction – The Central Texas Flood of 2002.” *Physical Geography*, Vol. 26(5), September-October 2005, p. 337-339.

Dixon, Richard W., Jonathan Herbert, and Jeffery Isom. “A Tropical Weather Vulnerability Assessment for Texas Coastal Counties.” *Texas Journal of Science*, Vol. 57(2), May 2005, p. 187-196.

Herbert, Jonathan and Richard W. Dixon. "Is the ENSO Phenomenon Changing Due to Global Warming?" *Physical Geography*, Vol. 23(3), May 2002, p. 196-211.

Bigler, Wendy, David R. Butler, and Richard W. Dixon. "Beaver-Pond Sequence Morphology and Sedimentation in Northwestern Montana." *Physical Geography*, Vol. 22(6), November 2001, p. 531-540.

Dixon, Richard W. and Dennis E. Fitzsimons. "Toward A Quantified Hurricane Vulnerability Assessment for Texas Coastal Counties." *Texas Journal of Science*, Vol. 53(4), November 2001, p. 345-352.

Dixon, Richard W., David R. Butler, and Kate McAfee. "The Use of Remotely Sensed Imagery as a Pedagogic Tool for Natural Hazards Education." *Geocarto International*, Vol. 16(3), September 2001, p. 71-74.

Dixon, Richard W., David R. Butler, Lisa DeChano, and Julie Henry. "Avalanche Hazard in Glacier National Park: An El Niño Connection?" *Physical Geography*, Vol. 20(6), November-December 1999, p. 461-467.

Dixon, Richard W. "A Benefit/Cost Index for Evaluating Threshold Temperatures for Excessive Heat Advisories." *National Weather Digest*, Vol. 23(3), September 1999, p. 3-6.

Dixon, Richard W. "A Heat Index Climatology for the Southern United States." *National Weather Digest*, Vol. 22(1), December 1997, p. 16-21.

Dixon, Richard W. "Climatology and Multinational Sporting Events, Atlanta 1996." *Bulletin American Meteorological Society*, Vol. 77(4), April 1996, p. 771-772.

b. Non-refereed Articles.

Dixon, Richard W. "Operational Climatology." In Specialized Operational Services Committee Report. Newsletter, National Weather Association, Vol. 4(10), October 2004.

Dixon, Richard W. "Physical Geography and the Battle of New Orleans." Proceedings, International Conference on Military Geology and Geography, West Point, NY June 2003.

Dixon, Richard W. "Hazardous Heat Advisories, An Investigation of Changing Threshold Temperatures." Preprints, American Meteorological Society 11th Conference on Applied Climatology, Dallas, TX, January 1999.

Dixon, Richard W. "Summer Heat Mortality and Advisory Threshold Heat Index Temperatures." Preprints, American Meteorological Society 10th Conference on Applied Climatology, Reno, NV, October 1997.

Dixon, Richard W. "Summertime Heat Stress in Texas." Preprints, American Meteorological Society, 11th Conference on Biometeorology and Aerobiology, San Diego, CA, March 1994.

Dixon, Richard W. "Climatology of Summer Heat Stress Hazard in Texas." Preprints, American Meteorological Society, 8th Conference on Applied Climatology, Anaheim, CA (co-author, Lans Rothfusz, National Weather Service, Fort Worth, TX), January 1993.

3a. Referred Conference Proceedings.

Luther, Shae R., Richard W. Dixon, and Laura J. Stroup. "Community Perception of Texas Water Reuse Programs." Papers and Proceedings of the 2012 Applied Geography Conference. Vol. 35, October 2012, p.127-134.

Dixon, Richard W. "Climatic Controls Upon Dust Storm Occurrence in Iraq." Papers and Proceedings of the 2011 Applied Geography Conference. Vol. 34, p. 60-64.

Barrett, Kevin M and Richard W. Dixon. "Weekly Variation in Severe Thunderstorm Warnings and Severe Thunderstorm Reports." Papers and Proceedings of the 2010 Applied Geography Conference. Vol 33, p. 280-289.

Dixon, Richard W., B. Hema Malini, and Bharati Ayyalasomayajula. "Description and Impacts of the Mumbai Monsoon Flood of July 2005." Papers and Proceedings of the 2008 Applied Geography Conference. Vol. 31, p. 162-165.

Earl, Richard, Richard Dixon, and C. Andrew Day. "Long Term Precipitation and Water Supply Variability in South-Central Texas." Papers and Proceedings of the 2006 Applied Geography Conference. Vol. 29, p. 11-22.

Brown, Rebecca P. and Richard W. Dixon. "A Dome Over Home. Does San Antonio Need a Domed Baseball Stadium?" Papers and Proceedings of the 2006 Applied Geography Conference. Vol. 29, p. 302-310.

Dixon, Richard W. "Impact of ENSO Phase on Australian Shark Attack Frequency." Papers and Proceedings of the 2003 Applied Geography Conference. Vol. 26, p. 303-306.

Herbert, Jonathan and Richard W. Dixon. "Deaths and Injuries from Tornados in Texas." Papers and Proceedings of the 2002 Applied Geography Conference. Vol. 25, p. 310.

Dixon, Richard W. "Interannual Variations in South Texas Climate." Papers and Proceedings of the 2002 Applied Geography Conference. Vol. 25, p. 36-42.

5. Book Reviews:

Review of Dryland Climatology. Geomorphology. http://dx.doi.org/10.1016/j.geomorph.2013.02.010.

Review of The Oxford Companion to World Exploration. The Journal of Geography. Vol 110 (4) July-August 2011, p. 176.

Review of Engineering Geomorphology: Theory and Practice. Geomorphology. Vol. 114(4) February 2010, p. 638.

Review of: Oxford New Concise World Atlas. Research in Geographic Education. Vol. 9(2) December 2007, p. 124.

Review of: Environmental Geology; Geology and the Human Environment. Geomorphology 24(1998) 363 - 366.

6. Other:

Long, Joseph, Richard Dixon, and Sage Lichtenwalner (2021). "Ocean Waves: Linking the Marine Atmosphere and the Ocean Surface." In Bristol, D.L. and A. Pfeiffer-Herbert, Eds. *Ocean Data Labs: Exploring the Ocean with OOI Data – Online Laboratory Manual 2nd Edition.* Rutgers University 2020. https://datalab.marine.rutgers.edu/ooi-lab-exercises/ [Refereed].

Long, Joseph, Richard Dixon, and Sage Lichtenwalner (2020). "Waves Generated by Large Storms." In Bristol, D.L. and A. Pfeiffer-Herbert, Eds. *Ocean Data Labs: Exploring the Ocean with OOI Data – Online Laboratory Manual.* Rutgers University 2020. https://datalab.marine.rutgers.edu/ooi-lab-exercises/ [Refereed].

Dixon, R., Beaird, N., & Lichtenwalner, C. S. "Thermohaline Circulation". *Ocean Observatories Initiative Data Labs Collection*. Rutgers University 2019. https://datalab.marine.rutgers.edu/explorations/2019/thermohaline.php

Dixon, Richard W. "Climatology of the Freeman Ranch, Hayes County, Texas." Freeman Ranch Publication Series No. 3-2000. Freeman Ranch Management Committee, Southwest Texas State University. May 2000. Refereed

Fitzsimons, D., B. Augustin, R. Dixon, and J. Ronald Eyton, Eds. Texas Outline Map Series: The Texas Atlas Project. Dept. Geography & Planning, SWT, Fall 1998.

B. Works not in Print

1. Papers Presented at Professional Meetings.

October 2025. “Local Environmental Responses to Regional Climatic Changes During the Holocene: a Case Study from Palmetto State Park, Texas. Presented at the 2025 Applied Geography Conference. Amanda Barney, Samantha Krause, Richard Dixon, and Kimberly Mietzen.

October 2024. “The Varied Climates of Formula 1 Racing.” Presented at the 2024 SWAAG Meeting with Amanda Barney.

February 2024. “Rip Current Mortality in the Texas Coastal Zone 2007-2022.” Presented at the 2024 Ocean Sciences Meeting.

March 2022. “A Climatological Analysis of Tropical Cyclone Frequency in the Arabian Sea and Bay of Bengal: 1950 – 2020.” Presented at the 2022 Ocean Sciences Virtual Meeting with Jessica Meyer.

January 2022. “Rip Current and Associated Hazards Mortality in the Coastal Zone of the United States and Territories: 2000 – 2020.” Presented at the 2022 American Meteorological Society Virtual Annual Meeting.

April 2021. “Coastal Puerto Rico SST Response to Hurricanes Irma and Maria, September 2017.” Presented at the 2021 American Association of Geographers Virtual Annual Meeting with Patricia Geraldino.

December 2020. “Response and Recovery of Sea Surface Temperature Near Puerto Rico to Hurricanes Irma and Maria, September 2017” Presented at the 2020 American Geophysical Union Virtual Meeting with Patricia Geraldino.

February 2020. “Trends in North Atlantic Iceberg Numbers, 1950-2016.” Presented at the 2020 Ocean Sciences Meeting.

January 2020. “Impact of Climate Fluctuations on North Atlantic Iceberg Counts, 1950-2016” Presented at the 2020 American Meteorological Society Annual Meeting.

January 2019. “Impact of Interannual Climate Variability on Western Gulf of Mexico Landfalling Hurricanes” Presented at the 2019 American Meteorological Society Annual Meeting with Jonathan Herbert.

February 2016. “Sand Compaction Impact On Burrowing Preferences of the Atlantic Ghost Crab in Padre Island National Seashore-Texas.” Presented at the 2016 Ocean Sciences Meeting with Christi Townsend and Susan Peters.

January 2016. “Climatology of Sounding-Derived Parameters Associated with Tropical Cyclone Tornado Outbreaks.” Presented at the 2016 American Meteorological Society Annual Meeting with Todd Moore and Christi Townsend.

November 2015. “Baseline Climatology of Sounding-Derived Parameters Associated with Atlantic and Gulf Coast Tropical Cyclone Tornado Clusters.” Presented at the 2015 SWAAG-AGC Joint Meeting with Todd Moore and Christi Townsend.

January 2015. “The Relationship Between the Madden-Julian Oscillation and Gulf Coast Tropical Cyclone Tornado Clusters.” Presented at the 2015 American Meteorological Society Annual Meeting with Todd Moore and Christi Townsend.

April 2014. “Building the Body of Climate Knowledge: Climates of Extremes.” Presented at the 2014 Association of American Geographers Annual Conference.

April, 2014. “Climate and Man: Revisiting the 1941 Yearbook of Agriculture.” Presented at the 2014 Association of American Geographers Annual Conference.

October, 2013. “Preliminary Analysis of the Synoptic-Scale Environment Associated with Tropical Cyclone tornado Clusters. Presented at the 2013 Applied Geography Conference with Todd W. Moore.

October, 2013. “Precipitation Variability Trends in Texas, 1932-2011.” Presented at the 2013 Applied Geography Conference with Rebecca K. Parylak.

January 2013. “Monthly Temperature and Precipitation Persistence in the mid-South Region.” Presented at the 2013 Annual Meeting of the American Meteorological Society with Kevin Barrett and Todd Moore.

January 2013. “Warning Frequency Variation Among National Weather Service Weather Forecast Offices.” Presented by Kevin Barrett at the 2013 Annual Meeting of the American Meteorological Society with Rich Dixon.

October 2012. “Monthly Temperature and Precipitation Persistence in New Mexico.” Presented at the 2012 Annual Meeting of the Southwest Division of the Association of American Geographers.

October 2012. “Warning Frequency Variations among National Weather Service Weather Forecast Offices.” Presented by Kevin Barrett at the 2012 Annual Meeting of the National Weather Association with Rich Dixon.

October 2010. “Climatological Description of Tornadoes Associated with Gulf-Coast Landfalling Hurricanes.” Presented at the 2010 Applied Geography Conference with Todd Moore.

October 2010. “Weekly Variation in Severe Thunderstorm Warnings and Severe Thunderstorm Reports.” Presented at the 2010 Applied Geography Conference with Kevin Barrett.

May 2009. “Precipitation and Evaporation Trends in Texas.” Presented at the 2009 Joint Assembly of the Canadian Geophysical Association/American Geophysical Union.

March 2009. “Climate Controls Upon Dust Storm Occurrence in Iraq.” Presented at the 2009 Annual Meeting of the Association of American Geographers.

April 2008. “Use of Recycled Water for Golf Course Irrigation in Texas.” Poster at the 2008 Annual Meeting of the Association of American Geographers.

April 2007. “Retired Hurricane Names of the Atlantic Basin.” Poster at the 2007 Annual Meeting of the Association of American Geographers.

October 2006. “Best Teaching Practices of College Teachers.” Invited presentation at the National Council for Geographic Education Annual Meeting. Lake Tahoe, NV.

March 2006. “El Nino and Golf.” Invited presentation at the United States Golf Association Regional Meeting. Houston, Texas.

March 2006. “Impacts of Climate Change on Water.” Invited presentation at the Leadership Austin Meeting. San Marcos, Texas.

March 2006. “Military Affairs and Climate.” Presented at the 2006 Annual Meeting of the Association of American Geographers.

February 2006. “Historical Climatology of South Texas Tornadoes: Frequency, Magnitude, and Vulnerability.” Presented as an Invited Lecture at the 2006 John W. Stormont Lectures on South Texas. Victoria, Texas.

October 2005. “The South Texas Christmas 2004 Snow Event: A Climatological Perspective.” Presented at the 2005 Annual Meeting of the National Weather Association.

April 2005. “Newspaper Weather Pages: A Content Analysis Study.” Presented at the 2005 Annual Meeting Association of American Geographers.

March 2005. “A Tropical Weather Vulnerability Assessment for Texas Coastal Counties.” Presented at the Coastal Geo-Tools 2005 Conference.

October 2004. “Newspaper Weather: A Content Analysis Study of Newspaper Weather Pages.” Presented at the 2004 Annual Meeting of the National Weather Association.

October 2004. “Impact Of Interannual Climate Variability On Texas Tornado Occurrence.” Rebecca P. Brown and Richard W. Dixon. Presented at the 2004 Applied Geography Conference.

March 2004. “Ben Franklin, an American Geographer.” Presented at the 2004 Annual Meeting Association of American Geographers.

November 2003. “Impact of ENSO Phase on Australian Shark Attack Frequency.” Presented at the 2003 Applied Geography conference.

September 2003. “Stereo Photography as a Visualization Tool in Post-flood Recovery.” Presented at Living in Flood Alley: Lessons to Learn. Sponsored by The International Institute for Sustainable Water Resources and The Guadalupe-Blanco River Authority.

September 2003. "Reassessment of Storm and Flood Probability in South Central Texas." With Rich Earl. Presented at Living in Flood Alley: Lessons to Learn. Sponsored by The International Institute for Sustainable Water Resources and The Guadalupe-Blanco River Authority.

June 2003. "Physical Geography and the Battle of New Orleans." Presented at the International Conference on Military Geology and Geography.

March 2003. "Interannual Climate Variability and Shark Attacks." Presented at the 2003 Annual Meeting of the Association of American Geographers.

November 2002. "The Canyon Dam Flood of July 2002; Analysis and Visualization of an Extreme Hydro-geomorphic Event." Panel Organizer and Discussant. Presented at the 2002 Southwest Regional Meeting of the Association of American Geographers.

October 2002. "Interannual Variations in South Texas Climate." Presented at the 2002 Applied Geography Conference.

October 2002. "Deaths and Injuries from Tornados in Texas." Presented at the 2002 Applied Geography conference. Co-presenter: Jonathan Herbert.

March 2002. "Impact of ENSO Phase on Yellowstone Lake Discharge." Presented at the 2002 Annual Meeting of the Association of American Geographers.

March 2002. "Clast Size Variation of Sorted Periglacial Patterned Ground in the White Mountains of California." Presented at the 2002 Annual Meeting of the Association of American Geographers. Co-presenters: Forrest Wilkerson, Mark Jeffery Cook, and Ginger Schmid.

November 2001. "ENSO and Texas." Panel leader and discussant. Presented at 2001 Applied Geography Conference/SWAAG.

April 2001. "Hazardous Waste." Guest lecturer United States Military Academy, West Point. Department of Geography and Environmental Engineering.

February 2001. "Bioclimatological Considerations for Military Basic Training." Presented at the 2001 Annual Meeting of the Association of American Geographers.

November 2000. "Temperature Trends in Urbanized Areas." Presented at the 2000 Southwest Regional Meeting of the Association of American Geographers.

May 2000. "Texas Hurricanes: Evaluation of a Century of Risk." Presented at the American Meteorological Society 12th Conference on Applied Climatology.

April 2000. "A Century of Texas Hurricanes." Presented at the 2000 Association of American Geographers Annual Meeting.

October 1999. "Meteorological and Climatological Aspects of the Great Central Texas Flood of October, 1998." Presented at the 1999 Southwest Regional Meeting of the Association of American Geographers.

March 1999. “Avalanche Hazard in Glacier National Park; an El Niño Connection?” Presented at the 1999 Association of American Geographers Annual Meeting.

January 1999. “Hazardous Heat Advisories, An Investigation of Changing Threshold Temperatures.” Presented at the American Meteorological Society 11th Conference on Applied Climatology.

October 1998. “New Heat Advisory Thresholds?!” Poster presentation at National Weather Association 23rd Annual Meeting.

October 1997. “Summer Heat Mortality and Advisory Threshold Heat Index Temperatures.” Presented at the American Meteorological Society 10th Conference on Applied Climatology.

October 1997. “Impact of Changing Advisory Threshold Heat Index Temperatures.” Presented at the National Weather Association 22nd Annual Meeting.

October 1997. “Historic Hydroclimatic Variability in the Edwards Aquifer Region, Texas.” Presented with Rich Earl at the Applied Geography/SWAAG Conference

November 1996. “Climatology of Central Texas.” Poster presentation at SWT Environmental Education in High School Conference, San Marcos, TX.

March 1995. "Climatology of Heat Stress Hazard in the Southern United States." Presented at the 1995 Association of American Geographers Annual Meeting, Chicago, IL.

October 1994. "Climatology and Multinational Sporting Events." Presented at the 1994 Association of American Geographers Southwest Region meeting, Hot Springs AR.

March 1994. "Summertime Heat Stress in Texas."Presented at the American Meteorological Society, 11th Conference on Biometeorology and Aerobiology, San Diego, CA.

May 1993. "Baseline Climatology of Summer Heat Stress Hazard in Texas." Presented at the Texas A&M University College of Geosciences and Maritime Studies, First Texas Climate Symposium, College Station, TX.

January 1993. "Climatology of Summer Heat Stress Hazard in Texas." Presented at the American Meteorological Society, 8th Conference on Applied Climatology, Anaheim, CA (co-author, Lans Rothfusz, National Weather Service, Fort Worth, TX).

October 1992. "Climatology of Texas Summer Heat Stress."Presented at the 1992 Association of American Geographers Southwest Region Meeting, Denton, TX.

October 1991. "Evidence of a Transition Climate Across the Balcones Escarpment." Presented at the 1991 Association of American Geographers Southwest Region Meeting, Nacogdoches, TX.

May 1991. "GNIS: A "New" Cartographic Database for GIS." Presented at the Texas Natural Resources Information Service GIS Data Exchange Forum, Austin, TX.

2. Invited Talks, Lectures, Presentations.

March 2022. Invited Panelist. Rutgers University School of Environmental and Biological Sciences. Alumni to New Student Orientation.

July 2020. Invited Student Mentor. National Science Foundation, Virtual Research Experience for Undergraduates. Rutgers University.

December 2019. "Q&A on Climate Change." Invited presentation to the Lions Club of Wimberley, Texas.

March 2017. "Air Pollution in Comal County Texas" Invited presentation to the League of Women Voters of Comal County, Texas.

April 2016. "Climate of the Texas Hill Country." Invited presentation to the Texas State University Retired Faculty and Staff Association.

February 2016. "The Geography of Weather." Invited presentation to the Texas Alliance for Geographic Education conference "Investigating Weather with Geospatial Technologies."

July 2015. "Climate Change: What We Know, What's Changing, What We Can Do." Invited presentation to the Texas State University Intensive English Program.

February 2013. "The Global Impacts of Climate Change." Invited presentation at the 2013 Texas State University Leadership Institute Annual Conference.

July 2011. "Tropical Cyclone Induced Tornadoes Associated with Gulf Coast Landfalls." Invited presentation to the Austin-San Antonio Chapter American Meteorological Society/National Weather Association.

November 2009. "Hydroclimatology of Canyon Lake Texas and the Potential Impacts of Climate Change on Lake Elevation." Invited presentation to the Canyon Lake Yacht Club.

August 2009. "Historical Geography of Canyon Dam and Lake." Invited presentation and field trip at the 2009 Texas Watch Water Monitors Meeting.

October 2006. "Best Teaching Practices of College Teachers." Invited presentation at the National Council for Geographic Education Annual Meeting. Lake Tahoe, NV.

March 2006. "El Nino and Golf." Invited presentation at the United States Golf Association Regional Meeting. Houston, Texas.

March 2006. "Impacts of Climate Change on Water." Invited presentation at the Leadership Austin Meeting. San Marcos, Texas.

April 2001. "Hazardous Waste." Guest lecturer United States Military Academy, West Point. Department of Geography and Environmental Engineering.

C. Grants and Contracts

1. Funded External Grants and Contracts.

"Benefits and Costs of Water Reuse Programs in Texas." United States Geological Survey/Texas Water Resources Institute. **Funded $5,000**. November 2011.

"Precipitation and Evaporation Trends in Texas." United States Environmental Protection Agency. **Funded $88,000**, September 2006. Co-PI Andrew Sansom.

"Irrigation Water Management Issues for Texas Golf Courses." United States Environmental Protection Agency. **Funded $60,000**, September 2006. Co-PI Andrew Sansom.

"Travel to Collections: Early Climatology Textbooks." Helen and John S. Best Fellowship Program, American Geographical Society Library. **Funded $375**, November 2005.

"Hazardous Summer Heat: Risk Communication Issues for Texas." Natural Hazards Research and Applications Information Center – Quick Response Grant, October 2000. **Funded $1500 with annual renewal 2001, 2002, 2003, 2004 and 2005.**

"The July 2002 Flood in Central Texas. Beyond the 100-Year Flood: Lessons to be Learned." SWT International Institute for Sustainable Water Resources and United States Geological Survey, September 2002. $24653.00, **Funded: $10,000**. Co-PI: Rich Earl.

3. Funded Internal Grants and Contracts.

"Content Analysis of Early Climatology Textbooks." Texas State University Library Research Grant Program 2004. **Funded $750**.

IV. SERVICE

A. University:

Member Faculty Senate Library Committee AY-17- AY-23

Member College of Liberal Arts Tenure and Promotion Review Group AY-17- AY-24.

Member College of Education Tenure and promotion Review Group AY-17.

Member Representative to Board on Oceans, Atmosphere, and Climate of the Association of Public and Land-grant Universities. 2015 – current.

Member Representative to University Corporation for Atmospheric Research. 2012 – current.

Director, James and Marilyn Lovell Center for Environmental Geography and Hazards Research. September 2003-June 2005, Associate Director June: 2005-August 2007.

Member, University Search Committee for Mitte Chair in Water and GISci, 2006-2007.

Member, University Graduation Speaker Committee AY00-AY10.

Member, University Review SACS Publications Sub-committee AY98-99.

Member, College of Liberal Arts Geography Chair Search Committee AY04.

Geography Department representative to College of Liberal Arts Research Advisory Committee AY99-AY07, AY10.

Member Liberal Arts College Review Committee for University Scholars Awards. AY12.

B. Departmental:

Chair, Budget Assistant Search Committee AY 23

Member Colloquium Committee AY 23

Member, Environmental Geography Search Committee AY 20

Member, Instructor Review Committee AY 19, 20, 21

Chair, GEOED Professor Search Committee AY 19

Member, Distance Education Committee AY18

Member, Scholarships and Awards Committee AY15-AY16.

Member, Undergraduate Committee AY97-AY02.

Member, Graduate Committee AY04-AY09; AY17

Member, Evaluation Committee AY06, AY12, 13, 21

Member, Budget Committee AY03-AY04.

Member, Library Committee AY97-current.

Concentration Advisor, Physical Geography AY97-current.

Chair, GIScience Faculty Search Committee AY09.

Chair, Human Geography with Regional Emphasis Search Committee AY10.

Chair, Physical Geography Search Committee AY11.

Chair, Biogeography/Geomorphology Search Committee AY12.

Chair, Climatology Search Committee AY14.

Chair, Scholarship and Awards Committee AY15.

C. Community:

Judge for Texas Alliance for Geographic Education/ESRI Texas High School Map Contest 2018.

Invited speaker San Marcos Sunrise Club.

Invited speaker numerous San Marcos elementary schools.

Member, United States Golf Association Senior Amateur Championship Committee 2006 – 2012.

Member, Texas Golf Association Board of Directors 2008 – 2012.

D. Professional:

External Reviewer, Tenure and Promotion File, Department of Earth, Environmental, and Geographical Sciences, University of North Carolina – Charlotte, 2024.

Charter Member Association of American Geographers Cli-Mate Mentor Program 2022-

Association of American Geographers Globe Book Award Committee 2022- 2024

Editorial Board Member, *Annals Association of American Geographers*. 2020- 2025.

External Reviewer, Louisiana Sea Grant Research Proposal Program 2019.

Member and co-chair University Corporation for Atmospheric Research (UCAR) Governance Task Group. 2018-current.

Member UCAR NCAR Non-NSF Proposal Review Panel. 2025-present.

Chair UCAR Membership Committee. 2018-2021.

Member UCAR Membership Committee 2015- 2021.

Member UCAR Climate Voices Science Speakers Network 2014 – current.

External Reviewer, Tenure and Promotion File, Department of Geography, United Arab Emirates University, 2017.

Secretary/Treasurer South Central Texas Chapter American Meteorological Society/National Weather Association 2014- 2019.

Local Affairs Committee Member, 2013 Annual Meeting, American Meteorological Society.

External Reviewer, Tenure and Promotion file, Department of Geography, University of South Florida (2010, 2015, and 2017)

External Reviewer, Tenure and Promotion file, Department of Geography and Environmental Engineering, United States Military Academy, West Point (2006).

Association of American Geographers Publications Committee. (2010-2012)

American Geophysical Union Cowen Award Committee. (2010-2012)

Editorial Board Member, National Weather Digest. (2003-2010)

Editorial Board Member, Physical Geography. (2002-2009)

Co-chair, National Weather Association Specialized Operational Services Committee (Operational Climatology) (2005-2009)

Association of American Geographers Meridian Book Award Committee (2007-2009)

President, Association of American Geographers Military Geography Specialty Group (2005-2007)

Vice President, Association of American Geographers Military Geography Specialty Group (2003 - 2004)

Registration chair, 1999 SWAAG meeting in San Marcos.

Manuscript Reviewer (Journals)

Annals of the American Association of Geographers
Arctic, Antarctic, and Alpine Research
Atmosphere
Climatic Change
Earth Interactions
Geographical Bulletin
Geography Compass
Geomorphology
Geographical Research Letters
International Journal of Climatology
Journal of Applied Geography
Journal of Geography in Higher Education
Journal of Research in Geography Education
Marine Ecology Progress Series
Meteorological Applications
National Weather Digest
Natural Hazards
Papers in Applied Geography
Papers of the Applied Geography Conference
Papers of the Binghamton Symposium on Geomorphology
Physical Geography
Professional Geographer
Progress in Physical Geography
Singapore Journal of Tropical Geography
Southwestern Geographer
Weather, Climate, and Society
Texas State University Undergraduate Research Journal
Transactions of the Kansas Academy of Sciences

Manuscript Reviewer (Textbooks and Book Proposals)

Academic Press
Cambridge University Press
Elsevier Press
Guilford Press
John Wiley
Jones & Bartlett
Norton Publishers
Prentice Hall
Rutledge Publishers
SAGE Publications
Springer Publishing
Taylor & Francis

E. Organizations

2. Professional:

American Association of Geographers
American Geophysical Union
American Meteorological Society
Oceanography Society