

David A. Call

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Education

- Ph.D. Geography, Syracuse University, 2007
Dissertation: *An integrated hazard analysis of ice storm impacts, warnings, and emergency plans*. Advisor: Mark Monmonier
- M.A. Geography, Syracuse University, 2004
Thesis: *Urban snow events in upstate New York: an integrated human and physical geographical analysis*. Advisor: Anne Mosher
- B.S. Meteorology with honors (Minor in Geography), Penn State University, 1998
Undergraduate thesis: *El Niño based forecasts of monthly temperature and precipitation anomalies and their statistical significance*. Advisor: Greg Forbes

Expertise

Weather and Society, Hazards, Winter Weather, Mesoscale Meteorology, Physical Geography

Professional Appointments

- 2013-pres. Associate Professor, Ball State University, Muncie, Indiana
2022 Faculty liaison for the first year seminar (Summer and Fall), BSU University College
2007-2013 Assistant Professor, Ball State University, Muncie, Indiana

Publications

Book

- In press Call, D. A. *Superstorm 1950: The Greatest Simultaneous Blizzard, Ice Storm, Windstorm, and Cold Outbreak of the Twentieth Century*. Purdue University Press: West Lafayette, Indiana.
Around 200 pages. (Anticipated publication date 1/15/2023.)

Journal Articles (* indicates student)

- 2022 Call, D. A., and G. A. Flynt*. The impact of snowfall on crashes, traffic volume, and revenue on the New York State Thruway. *Weather, Climate, and Society* **14** (1), 131-141.
- 2019 Call, D.A., A. W. Black, and R. M. Medina. Causes of weather-related crashes in Salt Lake County, Utah. *The Professional Geographer* **71** (2), 253-264.
- 2018 Call, D.A., C. S. Wilson*, and K. N. Shourd*. Hazardous weather conditions and multiple-vehicle chain-reaction crashes in the United States. *Meteorological Applications* **25** (3), 466-471.
- 2015 Call, D.A., K.E. Grove*, and P.J. Kocin. A Meteorological and Social Comparison of the New England Blizzards of 1978 and 2013. *J. Operational Meteorology*, **3** (1), 1–10.
- 2014 Jaszka, K. D.*, and D.A. Call. A GIS-based assessment of lake-effect snow warnings in Upstate New York. *J. Operational Meteorology*, **2** (6), 59–70.
- 2014 Call, D.A. and J. S. M. Coleman. The Decision Process Behind Inclement-Weather School Closings: A Case-Study in Maryland. *Meteorological Applications* **21** (3), 474-480.
- 2011 Call, D.A., The Effect of Snow on Traffic Counts in Western New York State. *Weather, Climate, and Society* **3** (2), 71-75.

- 2010 Call, D.A., A Survey of County Emergency Managers' Response to Ice Storms. *Journal of Homeland Security and Emergency Management* **7** (1), article 32.
- 2010 Call, D.A., Changes in Ice Storm Impacts over Time: 1886-2000. *Weather, Climate, and Society* **2** (1), 23-35.
- 2009 Call, D.A., An Assessment of National Weather Service Warning Procedures for Ice Storms. *Weather and Forecasting* **24** (1), 104-120.
- 2006 Call, D.A., Fair Weather Ahead? Changes in Newspaper Weather Maps: 1902-2005. *The Pennsylvania Geographer* **43** (2), 45-64.
- 2005 Call, D.A., Rethinking snowstorms as "snow events:" A regional case study from Upstate New York. *Bulletin of the American Meteorological Society* **86** (12), 1783-1793.

Encyclopedia Entries/Book Chapters

- 2015 Call, D.A., Meteorology and Cartography. *History of Cartography, Volume 6*, Mark Monmonier, ed. University of Chicago Press. 822-827. (Peer-reviewed).
- 2010 Call, D.A., and J.S.M. Coleman. Atmospheric Circulation. *Encyclopedia of Geography*, ed. Barney Worf. 131-136.
- 2008 Call, D. A. Using Qualitative Methods to Study Ice Storms. *WAS*IS Compendium*, ed. Eve Gruntfest, Julie Demuth, and Sheldon Drobot. (revised version accepted 6/2008, but compendium was never published.)
- 2005 Call, D.A., Onondaga County [physical geography section] and Rensselaer County [physical geography section]. *The Encyclopedia of New York State*, Peter Eisenstadt, ed. Syracuse, NY: Syracuse University Press.

External Grants

- 2010 American Meteorological Society Program Chair's Grant, \$440.
- 2007 Natural Hazards Center Quick Response Grant, \$2000.

Internal Grants

- 2018 ASPIRE Publication Support Grant, \$440, Ball State University.
- 2015 ASPIRE Publication Support Grant, \$300, Ball State University.
- 2014 ASPIRE Publication Support Grant, \$300, Ball State University.
- 2013 Presidential Travel Grant and Dean's Travel Grant, \$1193, Ball State University.
- 2013 Honors College Fellowship, \$1080, Ball State University.
- 2011 ASPIRE Publication Support Grant, \$300, Ball State University.
- 2010 ASPIRE Publication Support Grant, \$300, Ball State University.
- 2009 ASPIRE Publication Support Grant, \$300, Ball State University.
- 2007 Lilly V Grant, \$12,325, Ball State University.
- 2006 Roscoe Martin Dissertation Grant, \$600, Syracuse University.

External Grant Applications (Unsuccessful)

- 2018 NOAA Collaborative Science, Technology, and Applied Research (CSTAR) Program. \$296,942. "Analysis and VERification of Roadcasts and Transportation Crashes (AVERT Crashes)." With R. Medina and A. Black as Co-PIs. (Not funded.)
- 2015 NOAA Collaborative Science, Technology, and Applied Research (CSTAR) Program. \$364,086. "Defining Blizzards: Regional Characteristics and Societal Implications." With J. S. M. Coleman and N. Hitchens as Co-PIs. (Not funded.)

- 2009 NOAA, \$24,472, “No School Today! How School Administrators Use Weather Information in Deciding to Close School due to Inclement Weather.” (Requested resubmit, but not reviewed; grantor funding issue.)
- 2008 NOAA, \$23,700, “No School Today! How School Administrators Use Weather Information in Deciding to Close School due to Inclement Weather.” (Not funded because NOAA did not receive expected funds from U.S. Congress.)

Sponsored/Invited Presentations

- 2018 “Forecasting and Chasing Storm Safely and Successfully.” Sponsored by the Indiana Chapter of the American Meteorological Society for the 2018 Central Indiana Severe Weather Symposium. (Indianapolis, Indiana).
- 2016 “Some Thoughts on Winter Storms.” Sponsored by the National Academy of Sciences, Workshop on Advancing Social and Behavior Science (SBS) Research and Application within the Weather Enterprise. (Washington, DC).
- 2012 “Interrupted! The Impacts of Weather on Traffic and Schools.” Sponsored by Northern Illinois University Department of Geography. (DeKalb, Illinois).
- 2011 “(2010) East Coast Snowstorm Impacts.” Sponsored by the American Meteorological Society (AMS) Presidential Travel Fund. AMS Annual Meeting (Seattle, WA).

Conference Presentations (*indicates student)

- 2022 (with G.A. Flynt*) “The impacts of snowfall on crashes, traffic volume, and revenue on the New York State Thruway.” American Meteorological Society Annual Meeting. Virtual Poster.
- 2021 (with G.A. Flynt*) “The costs of snow on the New York State Thruway.” American Association of Geographers Annual Meeting. Virtual Poster.
- 2020 “Buried: how extreme snow crippled the Ohio Valley in 1950.” American Meteorological Society Annual Meeting (Boston, Mass.).
- 2019 “Impacts of Superstorm 1950 on the Southern United States.” National Weather Association Annual Meeting (Huntsville, Alabama). Poster.
- 2019 “Impacts of Superstorm 1950 on the Northeastern United States.” 44th Northeastern Storm Conference (Saratoga Springs, New York).
- 2018 (with A.W. Black, R. M. Medina). “Causes of Weather-Related Crashes in Salt Lake County, Utah.” American Association of Geographers Annual Meeting (New Orleans, Louisiana).
- 2017 (with C. S. Wilson*, K. N. Shourd*). “Hazardous Weather Conditions and Multiple-Vehicle Chain-Reaction Crashes in the United States.” American Association of Geographers Annual Meeting (Boston, Massachusetts).
- 2016 (with C. S. Wilson*, K. N. Shourd*). “Multi-Vehicle (Chain Reaction) Accidents and Radar Signatures.” American Meteorological Society Annual Meeting (New Orleans, Louisiana). Poster.
- 2015 (with K. E. Grove* and P. J. Kocin). “A Meteorological and Social Comparison of the Boston Blizzards of 1978 and 2013.” Association of American Geographers Annual Meeting (Chicago, Illinois).
- 2015 (presented by co-author N. M. Hitchens) “An Assessment of the Preparedness of Large-capacity Sports Venues for Thunderstorm Hazards.” Association of American Geographers Annual Meeting (Chicago, Illinois).

- 2014 (with K. E. Grove*). “A Comparison of the Impacts from Nor’easters in 1978 and 2013.” American Meteorological Society Annual Meeting (Atlanta, Georgia).
- 2012 (with J.S.M. Coleman) “The Decision Process Behind Inclement Weather School Closings: A Case Study in Maryland.” Association of American Geographers Annual Meeting (New York, New York).
- 2011 (presented by co-author J.S.M. Coleman) “The Decision Process Behind Inclement Weather and Secondary School Closures in Maryland, U.S.A.” Paper presented at the 19th International Congress of Biometeorology (Auckland, New Zealand).
- 2009 “Emergency Management Response to Ice Storms.” Association of American Geographers Annual Meeting (Las Vegas, Nevada).
- 2008 “An Assessment of How the National Weather Service Warns for Ice Storms.” Association of American Geographers Annual Meeting (Boston, Mass.).
- 2007 “Impacts of Ice Storms: The Shocking Truth.” Association of American Geographers Annual Meeting (San Francisco, Calif.).
- 2006 “The Decision Making Process Behind Weather Related School Closings.” Association of American Geographers Annual Meeting (Chicago, Illinois).
- 2005 “A Flood of Information: The Growth of Weather Pages in Newspapers, 1902-2002.” Association of American Geographers Annual Meeting (Denver, Co.).
- 2005 “Lessons Learned from Major Snow Events in Upstate New York.” American Meteorological Society Annual Meeting (San Diego, California).
- 2004 “Lessons Learned from Major Snow Events in Upstate New York.” Great Lakes Operational Meteorology Workshop (Buffalo, New York).
- 2004 “What Defines a Snow Event? A Case Study in Upstate New York.” Association of American Geographers Annual Meeting (Philadelphia, Penna.).

Campus Presentations

- 2018 “Understanding Winter Precipitation Types, Storms, and Warning.” Ball State Landscape Services, Special Talk, 14 November 2018.
- 2018 “Impacts of the Great Appalachian (Thanksgiving) Storm of 1950.” Ball State Department of Geography Colloquium Series, 20 April 2018.
- 2014 “Writing Across the Disciplines” Panel, Ball State Writing Center, 28 Feb. 2014.
- 2014 “The threshold between natural disasters and the built environment: Greensburg, Kansas, tornado and its aftermath” at College of Architecture and Planning Forum “Design for resilience: mitigating, adapting to, and transforming from disaster,” 2 April 2014.
- 2009 “Storm Chase 2008: A Look Back.” Ball State University Academic Advisors’ Monthly Meeting, 8 April 2009.
- 2008 “Global Warming: Facts, Myths, and Effects on Indiana.” Focus the Nation Teach-In (Ball State University), 31 January 2008.

Teaching Experience

Courses Taught

Ball State University (3 courses per semester)

Introduction to Physical Geography (101), most semesters

Elementary Meteorology (230), most semesters

Spatial Analytical Methods in Geography (250), irregular

Weather Analysis (330), most spring semesters

Broadcast Meteorology (410), every other fall

Satellite and Radar Meteorology (435/535), every other spring

Thermodynamic Meteorology (447), every other fall
 Mesoscale Meteorology (450/550), every other spring
 Field Observation of Severe Local Storms (490/590), every summer
 Inquiries in the Earth Sciences (Honors Program 297), irregular

Onondaga Community College (Syracuse, NY)

Introduction to Geography, Summer 2005

Syracuse University

Introduction to Physical Geography (Instructor of Record), Summers 2004 and 2006
 Geographic Information Systems (Lab), Spring 2006
 Quantitative Methods (Lab), Fall 2005
 Introduction to Physical Geography (Teaching Assistant), 2003-2004

Penn State Erie, the Behrend College

Introduction to Meteorology (Spring 2000, 2001, 2002; Fall 2001)

Students Advised

Graduate Students, Thesis Advisor

Marzola, Sara (M.S.), 2022.
 Goldstein, Jeremy (M.S.), 2020.
 Wilson, Caleb (M.S.), 2018.
 Grove, Kate (M.S.), 2015.
 Jaszka, Keith (M.S.), 2013.
 Phillips, Anthony (M.S.), 2012.
 Klotz, Adam (M.S.), 2011.

Graduate Students, Committee Member

Rigney, Michael (Ph.D. Music), in progress.
 Flynt, G. Alex, (M.S.), 2021.
 Saadon, Mayss, (M.S.), 2018.
 Eckstein, Nick, (M.S.), 2018.
 Pennington, Caitlin (M.S.), 2017.
 Algarin-Ballesteros, Jose (M.S.), 2017.
 Johnson, Zach (M.S.), 2017.
 Pesel, Brent (M.S.), 2015.
 Stefl, David (M.S.), 2014.
 Widen, Holly (M.S.), 2012.
 Lindsey, Amy (M.S.), 2009.
 Aleksa, Matthew (M.S.), 2008.
 Clemens, David (M.Arch.), 2008.
 Smith, Brian (M.S.), 2007.

Undergraduate Thesis

Williams, Joseph (B.S.), Honors Thesis, 2020.
 Behrens, Michael (B.S.), Honors Thesis, 2016.
 Garrett, Samantha (B.S.), Honors Thesis, 2015.
 Hill, Mitchell (B.S.), Honors Thesis, 2014.

Service to the Profession

- 2007-pres. Annually review 4-6 articles for various journals, such as *Journal of Climatology*, *Bulletin of the American Meteorological Society*, and *Weather Climate and Society*.
- 2017-2020 Reviewer for VORTEX-SE grant competition, 4 proposals each year
- 2016-2019 Reviewer for the Gilbert White Award, Hazards Specialty Group, American Association of Geographers, 3-5 theses and/or dissertations each year
- 2011-2013 Vice President, Indiana Chapter of the American Meteorological Society
- 2009-2011 Secretary, Indiana Chapter of the American Meteorological Society
- 2008-2009 Judge for Student Competition, Climate Specialty Group, AAG

University, College, and Departmental Service

Ball State University

- Institutional Review Board, 2015-2021; Vice-Chair, 2018-2021.
- Field Studies and Environmental Education Committee, 2010-15.
- Discussion Leader, Ball State Freshman Connections Reader, 2008, 2009, 2010.

Ball State College of Sciences and Humanities

- Dean's Representative to Philosophy and Religious Studies Promotion and Tenure Comm., 2021-22.
- Inclusive Excellence Task Force, 2020-21.
- Promotion and Tenure Committee, 2011-12, 2016-17, 2018-19; Secretary, 2016-17; Chair of Fourth Year Review for Social Sciences Subcommittee, 2018-19; Member of Criteria Subcommittee 2018-19.
- Dean's Advisory Council, 2017-present.

Ball State Department of Geography and Meteorology

- Promotion and Tenure Committee, 2011-12, 2014-15, 2016-17, 2018-19, 2021-22; Chair 2011-12, 2016-17, 2018-19.
- Salary Committee, 2014-16, 2019-21; Chair 2014-15.
- New Faculty Mentor, 2011-13, 2015-16, 2018-20.
- Travel and Tourism Concentration Tenure-track Hire Search Committee (Member) 2017-18.
- Undergraduate Curriculum Committee 2015-17.
- Colloquium Committee 2015-16.
- Meteorology Tenure-track Hire Search Committee (Chair) 2014-15.
- Assessment Committee, 2012-14.
- University Core Curriculum Committee, 2008-09, 2010-11.

Additional Geography Department Service (non-committee)

- Meet with and give tours with 10-15 prospective students each year, 2007-present.
- Faculty advisor, Ball State Storm Chasing Team, 2007-present.

Community Involvement and Outreach

Select Media Appearances

- 2007-pres. Regularly quoted by the *Ball State Daily News* and *The (Muncie) Star-Press*, and occasionally interviewed by *Newslink Indiana* (BSU student-produced newscast).
- 2017-18 Multiple media interviews following tornadoes in Muncie and Jay County, Indiana, on 5 November 2017.
- 2015-16 Multiple appearances on a 5-minute segment on Channel One media (national news report distributed to schools) in connection with storm chase class.

- 2014-15 Numerous media interviews in connection with observing more than five tornadoes in eastern Colorado on 6/4/2015.
- 2013-14 One of two guests on hour long WICR show “Hoosier History Live!” speaking about tornado history and storm chasing. Sole guest on 30-minute radio interview show *Indiana Weekend*, hosted by John Strauss, on 2/1/2014.
- 2011-13 WTHR-TV 13 (Indianapolis): Contracted severe weather specialist, introduced as an assistant professor at Ball State. Appeared on-air as needed, around 15 days in total.
- 2012-13 Op-ed on storm-chasing ran in at least one dozen newspapers, including the *Indianapolis Star*, *New York Post*, and newspapers in states as diverse as Florida, Kansas, and Ohio.
- 2008-09 *Indiana Expeditions* (5 minute segment; show produced by WFYI-TV, Indianapolis).

Panel Discussion Participant

- 2022 “Starting a ‘Storm Chasing’ Course at your college or university,” Virtual, 6 January 2022.

Community Presentations

- 2022 “Pittsburgh’s Greatest Snowstorm” Institute for Learning in Retirement at Slippery Rock University (via Zoom), 22 March 2022. (Scholarship presentation)
- 2021 “What a meteorologist does / severe weather safety” Combined second grade classes of Burris Elementary School (via Zoom), 28 April 2021.
- 2021 “Be your own severe weather forecast!” Institute for Learning in Retirement at Slippery Rock University (via Zoom), 30 March 2021.
- 2020 “Storm Chasing: The Real Story!” Institute for Learning in Retirement at Slippery Rock University (via Zoom), 9 September 2020.
- 2019 “Everything you wanted to know about storm chasing and weather!” Indiana Academy Youth Enrichment Program (Muncie, Indiana), 26 April 2019.
- 2019 “Storm Chasing: Myth versus Reality.” Discover Indianapolis Britton Falls (Fishers, Indiana), 20 April 2019.
- 2019 (with N. Hitchens as co-presenter) “Storm Chasing: Myth versus Reality.” East Central Indiana Science Fair (sponsored by Ball State’s Centennial Celebration), 16 Feb. 2019.
- 2017 “A Review of the Jay County Tornado of 5 November 2017.” Jay County Rotary Club (Portland, Indiana), 20 December 2017.
- 2017 “Storm Chasing at Ball State: Reflections after 14 trips and 97,000 miles.” Frankton Lion Club (Frankton, Indiana), 10 October 2017.
- 2017 “Storm Chasing at Ball State: Reflections after 14 trips and 97,000 miles.” Lunch, Laugh, and Learn Group, College Avenue UMC (Muncie, Indiana), 23 August 2017.
- 2016 “Storm Chasing at Ball State.” Ball State Foundation monthly meeting (Muncie, Indiana), 5 October 2016.
- 2014 “Storm Chasing at Ball State: A Look Back at the Past 6 Years.” College Avenue UMC Prime Timers (Muncie, Indiana), 15 October 2014.
- 2014 “Storm Chasing at Ball State: A Look Back at the Past 6 Years.” Muncie Exchange Club (Muncie, Indiana), 19 March 2014.
- 2013 Presentation to Burris Middle School Botniks Lego Club regarding hazard mitigation (Muncie, Indiana), 5 December 2013.
- 2013 Informal presentation and Q & A with Yorktown Robotics Club regarding tornado occurrence, safety, and damage (Yorktown, Indiana), 11 October 2013.

- 2013 Kirkham Lecture at The Friends of the Alexander M. Bracken Library Annual Dinner
“Storm Chasing at Ball State: Reflections after 5 years and 45,000 miles.” (Muncie, Indiana), 9 April 2013.
- 2012 “Storm Chasing at Ball State.” Muncie Exchange Club (Muncie, Indiana), April.
- 2011 “Weather Safety and Storm Chasing.” Yorktown 4-H Club (Yorktown, Indiana), March.
- 2010 “All About Storm Chasing.” Community Center for Vital Aging (Muncie, Indiana), October 2010 Special Event.
- 2009 “No Tornadoes, but a Terrific Time: A Review of the 2009 Storm Chase.” E.B. Ball Center Docent’s Forum (Muncie, Indiana), April.
- 2009 “No Tornadoes, but a Terrific Time: A Review of the 2009 Storm Chase.” First Presbyterian Church Men’s Group (Anderson, Indiana), September 2009 Meeting.
- 2009 “Storm Chase 2008: A Look Back.” Muncie Optimist Club (Muncie, Indiana), Mar. 2009.
- 2007 “Weathering Global Warming.” Community Roundtable, SUNY Cortland., 31 Jan. 2007.
- 2005 “Lessons for Meteorologists from Major Snow Events in Upstate New York.” American Meteorological Society, Central New York Chapter, (Liverpool, New York).

Awards & Honors

- 2021 Gamma Theta Upsilon Outstanding Teaching Award (BSU Chapter) (also 2012 and 2011)
- 2009 American Meteorological Society Certified Broadcast Meteorologist #378
- 2007 Certificate in University Teaching, Syracuse University
- 2005 Gilbert F. White Award for Outstanding Thesis or Dissertation, Hazards Specialty Group of the American Association of Geographers
- 2002 National Weather Association Seal of Approval for Television #0205786
- 2000 American Meteorological Society Seal of Approval for Television #1144

Funded Professional Training (Competitive Selection Process)

- 2011 Faculty Course on “Advances in Satellite Meteorology,” August 7-13, at the National Center for Atmospheric Research in Boulder, Colorado.
- 2005-06 WAS*IS (Weather and Society Integrated Studies) Workshops, National Center for Atmospheric Research, Boulder, Colorado. Two week-long workshops.

Additional Professional Experience

- 2008-pres. Forensic Consulting Meteorologist, as contracted, mostly for court cases
- 2002-07 Part-time Meteorologist, Precision Weather Service, Baldwinsville, New York
- 2002-07 Part-time On-Air Meteorologist, WSTM-TV 3 (NBC), Syracuse, New York
- 2003 GIS Specialist, Federal Emergency Management Agency, Syracuse, New York
- 1998-02 Full-time Weekend and Fill-in Meteorologist, WJET-TV 24 (ABC), Erie, Penna.

Professional Memberships

- American Association of Geographers (including Climate and Hazards groups), since 2003
- American Meteorological Society, since 1996
- National Weather Association, since 1996