Curriculum Vita
Clark Evans, Ph.D.

Personal Information

Current Address
NOAA/OAR/Global Systems Laboratory
325 Broadway
Boulder, CO 80305-3328

Last Updated: 24 April 2025

Contact Information
E-Mail: clark.evans@noaa.gov
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Web: https://gsl.noaa.gov/profiles/clark.evans
https://people.uwm.edu/evans36/

Education

2009 **Ph.D., Florida State University, Meteorology**
2006 **M.S., Florida State University, Meteorology**
2004 **B.S. (Magna Cum Laude), Florida State Univ., Meteorology (Minors: Physics, Math)**

Experience

2024-present **Research Physical Scientist and Branch Chief**, NOAA/OAR/GSL, Boulder, CO
2021-2024 **Professor**, UW-Milwaukee, Milwaukee, WI
2021-2024 **Chair**, Atmospheric Science Program, UW-Milwaukee, Milwaukee, WI
2016-2021 **Associate Professor**, UW-Milwaukee, Milwaukee, WI
2014-2020 **Chair**, Atmospheric Science Program, UW-Milwaukee, Milwaukee, WI
2011-2016 **Assistant Professor**, UW-Milwaukee, Milwaukee, WI
2009-2011 **Postdoctoral Fellow**, UCAR/Advanced Study Program, Boulder, CO
2004 **Research Assistant**, FSU/Florida Climate Center, Tallahassee, FL
2003-2004 **Undergraduate Research Assistant**, Florida State Univ., Tallahassee, FL

Affiliate/Adjunct Scientific Positions
2024-present **Adjunct Professor**, School of Freshwater Sciences, UW-Milwaukee, Milwaukee WI
2019-2024 **Affiliate Faculty**, Northwestern Mutual Data Science Institute, Milwaukee, WI
2018 **Visiting Scientist**, NOAA/NWS/Storm Prediction Center, Norman, OK
2013 **Visiting Scientist**, NCAR/Mesoscale and Microscale Meteorology Lab, Boulder, CO
2012 **Visiting Scientist,** NOAA/NWS/National Hurricane Center, Miami, FL

Awards and Honors

2023 **Faculty Distinguished Public Service Award**, UW-Milwaukee
2021 **Office of Research/UWM Foundation Research Award**, UW-Milwaukee
2021 **Faculty Distinguished University Service Award**, UW-Milwaukee
2018 **Editors' Award**, *Monthly Weather Review* and *Weather and Forecasting*
2018 **Invited Participant**, Inaugural AMS Early Career Leadership Academy
2009 **Ph.D. Poster Competition Winner**, American Meteorological Society 23rd Conf. on Weather Analysis and Forecasting/19th Conf. on Numerical Weather Prediction
2004 **Recipient**, American Meteorological Society Father James B. Macelwane Undergraduate Research Award
2004 **Recipient**, American Meteorological Society/Industry/Government Graduate Fellowship (Sponsored by the Office of Naval Research)

Peer-Reviewed Publications (*italicized* = advised student)

A citation listing is available on my Google Scholar page. H-index: 14, i10-index: 20.

DeYoung, C. P., and **C. Evans**, 2025: An assessment of the High-Resolution Rapid Refresh model's ability to resolve the Great Lakes marine atmospheric boundary layer and lake-breeze front. *Wea. Forecasting*, expected submission summer 2025.

Evans, C., and K. M. Wood, 2025: Weather phenomena: extratropical transitions. *Encyclopedia of Atmospheric Sciences (3rd Ed.)*, W. A. Robinson, Ed., Elsevier, in press (September 2025).

Spencer, M. R., and **C. Evans**, 2025: The influences of sea-surface temperature uncertainty on cool-season high-shear, low-CAPE severe weather event predictability in the southeast United States. *Wea. Forecasting*, in revision, expected resubmission summer 2025.

Blount, D. V., **C. Evans**, I. L. Jirak, A. R. Dean, and S. Kravtsov, 2023: An objective method for clustering observed vertical thermodynamic profiles by synoptic meteorological conditions. *Wea. Forecasting*, **38**, 1143–1156.

Kaminski, A. N., and coauthors, 2023: A 30-year climatology of northeastern United States atmospheric rivers. *J. Appl. Meteor. Climatol.*, **62**, 31–40.

Prince, K. C., and **C. Evans**, 2022: Convectively generated negative potential vorticity enhancing the jet stream through an inverse energy cascade during the extratropical transition of Hurricane Irma. *J. Atmos. Sci.*, **79**, 2901–2918.

Sarro, G. M., and **C. Evans**, 2022: An updated investigation of post-transformation intensity, structural, and duration extremes for extratropically transitioning North Atlantic tropical cyclones. *Mon. Wea. Rev.*, **150**, 2911–2933.

Schultz, D. M., and coauthors, 2022: How to be a more effective author. *Mon. Wea. Rev.*, **150**, 2819–2828.

Prince, K. C., and **C. Evans**, 2020: A climatology of indirect tropical cyclone interactions in the North Atlantic and western North Pacific basins. *Mon. Wea. Rev.*, **148**, 4035–4059.

Schaffer, J. D., P. J. Roebber, and **C. Evans**, 2020: Development and evaluation of an evolutionary programming-based tropical cyclone intensity model. *Mon. Wea. Rev.*, **148**, 1951–1970.

Schultz, D. M., and coauthors, 2020: Data availability principles and practice. *Mon. Wea. Rev.*, **148**, 4701–4702.

Evans, C., S. J. Weiss, I. L. Jirak, A. R. Dean, and *D. S. Nevius*, 2018: An evaluation of paired regional/convection-allowing forecast vertical thermodynamic profiles in warm-season, thunderstorm-supporting environments. *Wea. Forecasting*, **33**, 1547–1566.

Nevius, D. S., and **C. Evans**, 2018: The influence of vertical advection discretization in the WRF-ARW model on capping inversion representation in warm-season, thunderstorm-supporting environments. *Wea. Forecasting*, **33**, 1639–1660.

Prince, K. C., and **C. Evans**, 2018: A climatology of extreme South American Andean cold surges. *J. Appl. Meteor. Climatol.*, **57**, 2297–2315.

Burlingame, B. M., **C. Evans**, and P. J. Roebber, 2017: The influence of PBL parameterization on the practical predictability of convection initiation during the Mesoscale Predictability Experiment (MPEX). *Wea. Forecasting*, **32**, 1161–1183.

Evans, C., and coauthors: 2017: The extratropical transition of tropical cyclones. Part I: cyclone evolution and direct impacts. *Mon. Wea. Rev.*, **145**, 4317–4344.

Grunzke, C. T., and **C. Evans**, 2017: Predictability and dynamics of warm-core mesoscale vortex formation with the 8 May 2009 "super derecho" event. *Mon. Wea. Rev.*, **145**, 811–832.

Keclik, A. M., **C. Evans**, P. J. Roebber, and G. S. Romine, 2017: The influence of assimilated upstream, pre-convective dropsonde observations on ensemble forecasts of convection initiation during the Mesoscale Predictability Experiment. *Mon. Wea. Rev.*, **145**, 4747–4770.

Karloski, J. M., and **C. Evans**, 2016: Seasonal influences upon and long-term trends in the length of the Atlantic hurricane season. *J. Climate*, **29**, 273–292.

Manion, A., **C. Evans**, T. L. Olander, C. S. Velden, and L. D. Grasso, 2015: An evaluation of Advanced Dvorak Technique-derived tropical cyclone intensity estimates during extratropical transition using synthetic satellite imagery. *Wea. Forecasting*, **30**, 984–1009.

Weisman, M. L., and coauthors, 2015: The Mesoscale Predictability Experiment (MPEX). *Bull. Amer. Meteor. Soc.*, **96**, 2127–2149.

Burghardt, B., **C. Evans**, and P. Roebber, 2014: Assessing the predictability of convection initiation across the High Plains using an object-based approach. *Wea. Forecasting*, **29**, 403–418.

Evans, C., D. F. Van Dyke, and T. Lericos, 2014: How do forecasters utilize output from a convection-permitting ensemble forecast system? Case study of a high-impact precipitation event. *Wea. Forecasting*, **29**, 466–486.

Evans, C., M. L. Weisman, and L. F. Bosart, 2014: Development of an intense, warm-core mesoscale vortex associated with the 8 May 2009 "super derecho" convective event. *J. Atmos. Sci.*, **71**, 1218–1240.

Weisman, M. L., **C. Evans**, and L. F. Bosart, 2013: The 8 May 2009 "super derecho": analysis of a realtime explicit convective forecast. *Wea. Forecasting*, **28**, 863–892.

Evans, C., and coauthors, 2012: The PRE-Depression Investigation of Cloud-systems in the Tropics (PREDICT) field campaign: perspectives of early career scientists. *Bull. Amer. Meteor. Soc.*, **93**, 173–187.

Evans, C., R. S. Schumacher, and T. J. Galarneau, Jr., 2011: Sensitivity in the overland reintensification of Tropical Cyclone Erin (2007) to near-surface soil moisture characteristics. *Mon. Wea. Rev.*, **139**, 3848–3870.

Evans, C., and R. E. Hart, 2008: Analysis of the wind field evolution associated with the extratropical transition of Bonnie (1998). *Mon. Wea. Rev.*, **136**, 2047–2065.

Hart, R. E., J. L. Evans, and **C. Evans**, 2006: Synoptic composites of the extratropical transition lifecycle of North Atlantic tropical cyclones: factors determining post-transition evolution. *Mon. Wea. Rev.*, **134**, 553–578.

Funded Grants and Contracts

I am the sole PI on all funded grants and contracts except where listed.

2025-2026 **Federal Aviation Administration**
"FY25-26 GSL Model Development and Enhancement." $675,000 ($220,000 to the Physics Branch led by C. Evans); 5/1/25-4/30/26. Co-PI; lead PI: T. Ladwig (GSL).

2024 **National Science Foundation**
"AGS-FIRP Track 1: Learning by Doing: Observing the Lake Michigan Lake-Breeze Circulation." AGS-2347093; $47,200 ($22,270 to C. Evans); 3/1/24-8/31/24.

2023-2024 **UWM Discovery and Innovation Grant**
"Downstream Impacts of Extratropical Transition of Tropical Cyclones in a Changing Climate." $112,717; 7/1/23-12/31/24. Co-PI; lead PI: S. Kravtsov (UWM).

2023 **Hamilton Family Foundation**
"Observing the Lake Michigan Marine Atmosphere Boundary Layer." $4,500; 1/1/23-12/31/23.

2022-2025 **U.S. Department of Energy**
"Establishing a Holistic Understanding of the Circulations of Mesoscale Convective System Stratiform Regions." Award #DE-SC0023057; $716,831 ($276,265 to C. Evans); 8/1/22-7/31/25. Co-PI; lead PI: R. Adams-Selin (AER).

2021-2023 **National Science Foundation**
"CC* Compute: A Balanced Cluster for Science and Engineering in the Great Lakes Region." OAC-2126229; $400,000; 10/1/21-9/30/23. Co-PI; lead PI: P. Chang (UWM).

2021-2022 **Unidata Equipment Program**
"Upgrading THREDDS and Deploying JupyterHub at the University of Wisconsin-Milwaukee to Support Education and Research." $10,672; 6/1/21-5/31/22.

2019-2022 **National Science Foundation**
"Thermodynamics of Tropical Cyclone Overland Maintenance and Intensification." AGS-1911671; $408,577; 6/1/19-5/31/22.

2019-2021 **National Oceanic and Atmospheric Administration**
"VORTEX-SE: Quantifying the Influence of Sea-Surface Temperature Uncertainty on Cool-Season Severe Weather Events." NA19OAR4590208; $203,527; 9/1/19-8/31/21.

2018-2020 **National Oceanic and Atmospheric Administration**
"Round 3 of R2O Initiative – NOAA Testbeds: Evaluation of GFS-FV3 Vertical Profile and Thermodynamic Environment Fidelity." NA18NWS4680062; $210,369 ($190,369 to C. Evans); 9/1/18-8/31/20. Lead PI; co-PI: I. L. Jirak (NOAA/NWS/SPC).

2018-2019 **UWM Research Growth Initiative**
"A Climatology of Indirect Tropical Cyclone Interactions." $55,243; 7/2/18-7/1/19.

2017-2019 **National Oceanic and Atmospheric Administration**

"FY 2017 Joint Hurricane Testbed: Evolutionary programming for probabilistic tropical cyclone intensity forecasts." NA17OAR4590137; $199,527; 7/1/17-6/30/19. Co-PI; lead PI: P. Roebber (UWM).

2015-2018 **National Science Foundation**
"Collaborative Research: SI2-SSI: Big Weather Web: A common and sustainable big data infrastructure in support of weather prediction research and education in universities." ACI-1450439; $2,000,000 ($164,381 to C. Evans); 8/1/15-7/31/18. Co-PI; lead PI: C. Maltzhan (UC-Santa Cruz).

2015-2016 **Unidata Equipment Program**
"Deployment of AWIPS-II at the University of Wisconsin-Milwaukee." $11,908, 6/1/15-5/31/16.

2014-2017 **National Science Foundation**
"Numerical Assessment of the Practical and Intrinsic Predictability of Warm-Season Convection Initiation Using Mesoscale Predictability Experiment (MPEX) Data." AGS-1347545; $456,206; 6/1/14-5/31/17. Lead PI; co-PI: P. Roebber (UWM).

2012-2013 **UWM Graduate School Research Committee**
"An Assessment of Thunderstorm Development Forecast Successes and Failures from Very High Resolution Numerical Weather Forecasts." $12,611; 7/1/12-6/30/13.

2012-2013 **Unidata Equipment Program**
"Installation of RAMADDA, THREDDS, and LDM at UWM." $7,177; 6/1/12-5/31/13. Co-PI; lead PI: P. Roebber (UWM).

2011-2012 **COMET Partners Program**
"Extreme Precipitation Across the Tallahassee, FL NWS Forecast Area Associated with Tropical Storm Fay (2008): Physical Understanding and Ensemble-Based Forecast Utility." $9,990; 7/13/11-8/31/12. Lead PI; co-PI: D. Van Dyke (NOAA/NWS).

Teaching Experience

(= newly developed course; ^ = developed own materials)*

Tropical Meteorology (Atm Sci 470*)
Spring 2024, Spring 2022, Spring 2020, Spring 2018, Spring 2016, Spring 2014, Spring 2012

Numerical Weather Prediction (Atm Sci 730*)
Fall 2023, Fall 2021, Fall 2019, Fall 2017, Fall 2015, Fall 2012

Introductory Atmospheric Science Seminar (Atm Sci 101*)
Fall 2023, Fall 2022

Synoptic Meteorology II (Atm Sci 361^)
Spring 2023, Spring 2019, Spring 2015, Spring 2013

Synoptic Meteorology I (Atm Sci 360^)
Fall 2022, Fall 2018, Fall 2014

Mesoscale Meteorology (Atm Sci 460^)
Spring 2017

First-Year Seminar: Probability, Uncertainty, and Communication (Atm Sci 194*)
Fall 2016

Survey of Meteorology (Atm Sci 100^)
Spring 2014, Fall 2013

Current Weather Discussion (MET 3520^, Florida State University)
Spring 2008

Advised Students

Graduate Researchers

2023-present **Kathryn Boyle**
M.S. expected 2025; co-advised by S. Kravtsov

2023-present **Brian Foster**
M.S. expected 2025; co-advisor, S. Kravtsov as lead

2022-2024 **Danica Brezovar**
M.S., 2024; co-advisor, J. Kahl as lead

2022-2024 **Collin DeYoung**
M.S., 2024; now Instructor of Meteorology, Central Michigan Univ., Mt. Pleasant, MI

2021-2024 **Ariel Tickner-Ernst**
M.S., 2024; now Mitigation & Recovery Coordinator, Cumberland County, ME

2020-2021 **Michelle Spencer (Storm)**
M.S., 2021; now pursuing Ph.D. (ABD) at the Univ. of Oklahoma, Norman, OK; incoming UCAR Advanced Study Program Postdoctoral Fellow, Boulder, CO

2019-present **Dillon Blount**
M.S., 2021; Ph.D. expected 2025; incoming Assistant Professor at Ohio University

2019-2024 **Michael Vossen**
M.S., 2021; Ph.D. (ABD) at time of departure; now with Antea, St. Paul, MN

2017-2019 **Jesse Schaffer**
M.S., 2019; completed M.Ed. in 2022 at George Mason Univ.

2016-2022 **Kevin Prince**
M.S., 2018, Ph.D., 2022; now NRC Post-Doctoral Fellow, NRL, Monterey, CA

2016-2018 **Aidan Kuroski**
M.S., 2018; now Meteorologist with NWS, Milwaukee/Sullivan, WI

2016-2018 **David Nevius**
M.S., 2019; now with Delta Airlines, Atlanta, GA

2015-2017 **Caitlin Crossett**
M.S., 2017; Ph.D., 2022 at Univ. of Vermont; now Assistant Professor at UNC-Asheville

2014-2016 **Alexandra Keclik (Kelly)**
M.S., 2016; now NWS Central Region IDSS/WCM Program Mgr., Kansas City, MO

2014-2016 **Bryan Burlingame**
M.S., 2016; now Staff Data Engineer with LeafLink (fully remote)

2014-2016 **Caleb Grunzke**
M.S., 2016; now Meteorologist with NWS, Twin Cities/Chanhassen, MN

2013-2015 **Juliana Karloski**
M.S., 2015; now Educational Instructor with Space Center Houston, Houston, TX

2012-2014 **Alex Manion**
M.S., 2014; now Meteorologist with NWS, Detroit/Pontiac, MI

2011-2013 **Brock Burghardt**
M.S., 2013; Ph.D., 2017 at Texas Tech Univ.; now Certified Consulting Meteorologist in private practice

Undergraduate Researchers

2023-present	**Kade Barkas**	
2022-2024	**Drew Hickok**	
2018-2021	**Anna Kaminski (Prince)**	(2021 AMS Father James B. Macelwane Awardee)
2018-2020	**Giorgio Sarro**	(2020 AMS Father James B. Macelwane Awardee)
2018	**Marie Freres**	
2010	**Dereka Carroll-Smith**	(as SOARS Research Mentor at NCAR)

Graduate Dissertation/Thesis Committee Member
Dissertations: Andrew Westgate (2024), Ilijana Mastilovic (2023), Tim Thielke (2022), Austin Harris (2022), Brian Griffin (2016), Noriyuki Sugiyama (2015), Dawn Kopacz (2015)

Theses: Skylar Gertonson (expected 2025), Victoria Lang (2022), James Ryan (2020), Teresa Turner (2020), Andrew Westgate (2020), Christian Grimm (2018), Andrea Honor (2018), Cory Rothstein (2018), Tim Thielke (2018), Lily Chapman (2017), Russell Danielson (2017), Austin Harris (2016), Kaitlyn Heinlein (2016), Timm Uhlmann (2016), Justin Weber (2015), Josh Verbeten (2014), Joseph Pehoski (2013), Jeremy Duggan (2012), John Peters (2012), Marc Pilon (2012), Zach Uttech (2012)

Undergraduate Capstone Supervision
Drew Hickok (2024), Kyle Zur (2022), Anna Kaminski (2021), Giorgio Sarro (2020), Ashley Schils (2020), Devon Bertnick (2019), Austin Scheib (2018), Mackenzie Nuthals (2017), Alec Muniz (2016), Lily Chapman (2015), Kyle Koval (2013), Karleisa Rogacheski (2013), Charles Smith (2013)

Professional Service

National/International Service (Excluding Conference Session Chairing/Organizing)
2025-present **Member**, AMS Planning Commission
2025-present **Member**, AMS Awards Oversight Committee (*ex officio*)
2025-present **Member**, Committee on AMS Positions and Statements
2025-present **Member**, AMS Annual Meeting Oversight Committee (*ex officio*)
2024 **Panelist**, 23rd Annual AMS Student Conference
2023-present **Commissioner**, AMS Scientific and Technological Activities Commission

2023 **Chair**, Developmental Testbed Center Science Advisory Board
2023 **Panelist**, AMS Town Hall on Open Science Expectations for Model-Based Research
2022-2023 **Co-Chair**, AMS Future of Meetings Task Force
2022-2023 **Member**, AMS Future of Meetings Task Force
2021-2023 **Chair**, AMS Committee on Weather Analysis and Forecasting
2021 **Chair**, AMS Weather Analysis and Forecasting Statement Revision Team
2021 **Member**, NCEP Strategic Planning Team
2021 **Member**, AMS 102nd Annual Meeting Health and Safety Task Force
2021 **Panelist**, 20th Annual AMS Student Conference
2020-2022 **Chair**, AMS Annual Meeting Oversight Committee
2020-2023 **Member**, UCAR Membership Committee
2020-present **Member**, Developmental Testbed Center Science Advisory Board
2020 **Panelist**, 8th Annual AMS Conference for Early Career Professionals
2019-present **Editor**, *Monthly Weather Review*
2019-2022 **Member**, AMS Annual Meeting Oversight Committee
2018-2021 **Vice Chair**, AMS Committee on Weather Analysis and Forecasting
2018 **Rapporteur**, 9th WMO International Workshop on Tropical Cyclones
2018 **Organizer**, AMS Special Symposium on Impact-Based Decision Support Services
2017 **Member**, AMS 28th Conf. on WAF/24th Conf. on NWP Program Committee
2016-2023 **Member**, AMS Committee on Weather Analysis and Forecasting
2016 **Member**, AMS Max Eaton Award Selection Committee
2015 **Panelist**, 14th Annual AMS Student Conference
2015 **Member**, 17th Cyclone Workshop Science Committee
2014 **Member**, 8th WMO International Workshop on Tropical Cyclones Working Group
2013-2015 **Member**, AMS Weather Analysis and Forecasting Statement Revision Team
2013 **Panelist**, 1st Annual AMS Conference for Early Career Professionals
2012-2018 **Associate Editor**, *Monthly Weather Review*
2012 **Member**, AMS Max Eaton Award Selection Committee
2012 **Rapporteur**, 4th WMO International Workshop on Extratropical Transition
2010 **Member**, 7th WMO International Workshop on Tropical Cyclones Working Group
2010 **Member**, AMS 25th Conf. on Severe Local Storms Program Committee
2010 **Member**, AMS 29th Conf. on Hurricanes/Tropical Meteor. Program Committee

University/Institution Service

2024-present **Member**, NOAA/OAR/GSL Science and Technology Council
2024-present **Member**, NOAA/OAR/GSL Modeling Summit Leadership Team
2023 **Lecturer**, UWM Admitted Student Days Mock Lecture Series
2022-2023 **Vice Chair**, UWM Freshwater Sciences Academic Program & Curr. Committee
2022-2023 **Member**, UWM Freshwater Sciences Dean Search & Screen Committee
2021-2024 **Member**, UWM Freshwater Sciences Academic Program & Curr. Committee
2021-2024 **Faculty Advisor**, The Climate Consensus at UWM
2021-2022 **Member**, UWM Freshwater Sciences Climate/Water Asst. Prof. Search Committee
2020-2024 **Member**, UWM Research Computing Steering Group
2020-2021 **Member**, 2030 Implementation Team Undergraduate Experience Working Group
2018-2020 **Member**, UWM Information Technology Policy Committee
2017-2019 **Recruitment Ambassador**, UWM College of Letters and Science
2017-2019 **Member**, UWM Mathematical Sciences Strategic Planning Committee
2017-2018 **Member**, UWM Mathematical Sciences Undergraduate Committee
2017-2018 **Member**, UWM Mathematical Sciences Department Manager Search Committee
2017-2018 **Member**, UWM Mathematical Sciences Merit Committee
2017-2018 **Chair**, UWM Mathematical Sciences Visiting Assistant Professor Search Committee
2016-2017 **Member**, UWM Mathematical Sciences Assessment Committee
2014-2023 **Coordinator**, UWM StormReady University Initiative

2014-2020 **Member**, UWM Mathematical Sciences Graduate Committee
2013-2014 **Chair**, UWM Mathematical Sciences Event Organizing Committee
2012-2024 **UCAR Member Representative**, UW-Milwaukee
2011-2024 **Local Manager**, WxChallenge Forecasting Competition
2011-2024 **Faculty Co-Advisor**, UWM Atmospheric Science Club
2011-2016 **Member**, UWM Mathematical Sciences Colloquium Committee
2011-2016 **Member**, UWM Mathematical Sciences Event Organizing Committee
2010-2011 **Organizer**, UCAR/NCAR/MMM 'Dynamics Happy Hour' Seminar Series
2009-2011 **Member**, UCAR/NCAR/ASP Seminar Organizing Committee

Service to Other Universities
2024 **Reviewer**, Univ. of North Carolina-Charlotte – Promotion to Professor
2024 **Reviewer**, Northern Illinois University – Promotion to Professor
2023-2024 **Chair and Member**, Western Kentucky Univ. Meteorology B.S. Review Committee
2023 **Reviewer**, University of Kansas – Tenure and Promotion to Associate Professor
2022 **Reviewer**, Hobart & Wm. Smith Colleges – Promotion to Professor
2019 **Reviewer**, Northern Illinois University – Tenure and Promotion to Associate Professor
2018 **Reviewer**, Texas Tech University – Tenure and Promotion to Associate Professor
2016 **Reviewer**, Hobart & Wm. Smith Colleges – Tenure & Promotion to Assoc. Professor

Community Service
2025-present **Member**, High Plains Library District Friends & Foundation Board of Directors
2024 **Member**, Village of Grafton, WI Finance and Personnel Committee
2023-2024 **Trustee**, Village of Grafton, WI (*elected position*)
2023-2024 **Member**, Village of Grafton, WI Board of Public Works
2022-2023 **Vice President**, U.S.S. Liberty Memorial Public Library Joint Library Board
2018-2020 **Participant**, ESWN Science-a-Thon #dayofscience
2016-2023 **Trustee**, U.S.S. Liberty Memorial Public Library
2015 **Member**, Village of Grafton, WI Bicycle and Pedestrian Plan Committee

Journal and Proposal Reviewer
Bulletin of the American Meteorological Society
Climate Dynamics
Developmental Testbed Center
Geophysical Research Letters
Journal of Applied Meteorology and Climatology
Journal of Climate
Journal of Geophysical Research-Atmospheres
Journal of Geophysical Research-Oceans
Journal of Operational Meteorology
Journal of the Atmospheric Sciences
Monthly Weather Review
National Environment Research Council (UK)
National Oceanic and Atmospheric Administration (USA)
National Science Foundation (USA)
Nature Communications
Quarterly Journal of the Royal Meteorological Society
U.S. Department of Energy Atmospheric System Research Program
Weather and Forecasting

Invited Professional Colloquia and Seminars

2024 **Univ. of Arizona, Dept. of Hydrology and Atmospheric Sciences**

"Real-Time High-Resolution Hurricane Prediction with the Model for Prediction Across Scales"

2024 **NSF National Center for Atmospheric Research, Research Applications Laboratory**
"Real-Time High-Resolution Hurricane Prediction with the Model for Prediction Across Scales"

2024 **North Carolina State Univ., Dept. of Marine, Earth, and Atmospheric Sciences**
"High-Impact Tropical and Midlatitude Weather Phenomena Across Scales" and "Moving MEAS Forward, Together: A Vision for Leadership and for the Dept. of Marine, Earth, and Atmospheric Sciences"

2023 **NOAA Global Systems Laboratory**
"Diagnosing Atmospheric Boundary Layer Analysis and Forecast Biases in Short-Range Numerical Weather Prediction Forecasts"

2023 **National Science Foundation**
"Perspectives on the CLD and PDM Programs and Diversity, Equity, and Inclusion"

2022 **6th Midwest Student Conference on Atmospheric Research**
"The Extratropical Transition of Tropical Cyclones (and Assorted Career Musings)"

2019 **IOGP Metocean Committee**
"Tropical Cyclone Impacts at Higher Latitudes in a Warming World"

2018 **NOAA/NWS/Storm Prediction Center**
"A Preliminary Evaluation of Paired Regional/Convection-Allowing Model-Forecast Vertical Profiles in Warm-Season, Thunderstorm-Supporting Environments"

2018 **Northern Illinois Univ., Dept. of Geography**
"The Rear-Inflow Jet Evolution of Idealized, Mature Mesoscale Convective Systems"

2018 **Greater Milwaukee Chapter of the AMS**
"The Harvey-Irma-Maria Hurricanes: An Atlantic Hurricane Season Retrospective"

2017 **St. Cloud State Univ., Dept. of Atmospheric and Hydrologic Sciences**
"The Rear-Inflow Jet Evolution of Idealized, Mature Mesoscale Convective Systems"

2016 **Lyndon State College, Dept. of Atmospheric Sciences**
"Understanding Trends in and Controls on Atlantic Hurricane Season Length"

2016 **Univ. of Wisconsin-Madison, Dept. of Atmospheric and Oceanic Sciences**
"On the Short- to Medium-range Predictability of Thunderstorm Formation"

2015 **Greater Milwaukee Chapter of the AMS**
"How do Forecasters Utilize Ensembles? Case Study of a High-Impact Event"

2014 **Central Michigan Univ., Dept. of Earth and Atmospheric Sciences**
"The Predictability of Mesoscale Convective Phenomena"

2014 **Omaha/Offutt Chapter of the AMS/NWA**
"How do Forecasters Utilize Output from a Convection-Permitting Ensemble Forecast System? Case Study of a High-Impact Precipitation Event"

2014 **Univ. of Georgia, Dept. of Geography**
"Oklahoma's Tropical Storm: The Curious Case of T.S. Erin's Inland Reintensification"

2013 **Greater Milwaukee Chapter of the AMS**
"Anatomy of a Superstorm: Birth, Evolution, and Impacts of Hurricane Sandy (2012)"

2012 **UW-Milwaukee, Atmospheric Science Club**
Fall: "The 8 May 2009 'Super Derecho': A High-Impact Convective Event"
Spring: "A Primer on Numerical Weather Prediction and Ensemble Modeling"

2011 **Florida State Univ., Dept. of Earth, Ocean, and Atmospheric Science**
"A Unique Pathway to Tropical Cyclogenesis: Tropical Storm Erin (2007)"

2010 **UW-Milwaukee, Dept. of Mathematical Sciences**
"A Unique Pathway to Tropical Cyclogenesis: Tropical Storm Erin (2007)"

2009 **NCAR, Mesoscale and Microscale Meteorology Division**
"The Thermodynamic Evolution of Recurving Tropical Cyclones"

2007 **Bermuda Institute of Ocean Sciences, RPI Research Update**
"Development of Anomalous Probability Forecasts for the Threat of Higher Latitude Hurricane Impacts**"**

Invited Workshops and Meteorological Testbeds

12x, last: 2025 **NOAA Hazardous Weather Testbed Spring Forecasting Experiment**
NOAA/OAR/NSSL and NOAA/NWS/NCEP/SPC, Norman, OK

2025 **NOAA Winter Weather Experiment**
NOAA/NWS/NCEP/Weather Prediction Center, College Park, MD

2024 **Innovations in Open Science Planning Workshop: Community Expectations for a Geoscience Data Commons**
NSF National Center for Atmospheric Research, Boulder, CO

2023 **NCAR-NOAA Community Modeling Infrastructure Meeting**
UCAR/NSF NCAR, Boulder, CO

2022 **Mind the Gap 2 Workshop**
Natl. Science Foundation, Amer. Meteor. Society, and Univ. at Albany, Albany, NY

2022, 2020 **EarthCube Research Coordination Network "What About Model Data?" Workshops**
Univ. of North Dakota, Grand Forks, ND and UCAR, Boulder, CO

2012 **"Shaping the Development of EarthCube to Enable Advances in Data Assimilation and Ensemble Prediction" Workshop**
Unidata/National Science Foundation, Boulder, CO

2006 **"The Challenge of Convective Forecasting" Summer Colloquium**
UCAR/Advanced Study Program, Boulder, CO

Public Interviews and Presentations

2024 **DTC *Transitions* Newsletter** (Spring 2024; Director's Corner article on AI modeling)
2024 **Ozaukee News Graphic** (11 April 2024; weather monitoring station in Grafton, WI)
2023 **USA Today** (20 October 2023; hurricane model interpretation)
2023 **Learning in Retirement Waukesha County** (13 September 2023; Wisconsin weather)
2023 **Grafton, WI Public Library** (9 September 2023; observing Wisconsin weather)
2023 **Brookfield, WI Public Library** (6 September 2023; observing Wisconsin weather)
2023 **Wisconsin Examiner** (5 September 2023; August 2023 heat + climate adaptation)
2023 **WUWM Public Radio** (13 June 2023; Wisconsin drought conditions)
2023 **WDJT-TV/CBS 58** (16 March 2023; El Niño and Wisconsin weather)
2023 **WUWM Public Radio** (3 February 2023; warm January weather + climate change)
2023 **Milwaukee Journal Sentinel** (19 January 2023; warm January weather)
2023 **Milwaukee Journal Sentinel** (5 January 2023; early-winter temperatures and snow)
2022 **UWM Report** (10 November 2022; hurricane data resource)
2022 **Learning in Retirement Waukesha County** (17 October 2022; hurricane primer)
2022 **WISN-TV** (7 September 2022; "Rooftop Weather" interview)
2022 **Wall Street Journal** (16 August 2022; early-starting Atlantic hurricane seasons)
2022 **UWM Osher Lifelong Learning Institute** (21 February 2022; hurricane primer)
2021 **WUWM Public Radio** (5 November 2021; summer weather and climate change)
2021 **350.org Milwaukee Chapter** (14 September 2021; The Climate Consensus)
2021 **WUWM Public Radio** (4 August 2021; derechos and wildfires)
2021 **UWM Research Magazine** (16 March 2021; hurricane research)
2021 **UWM Today** (18 February 2021; hurricane research)
2021 **UWM Alumni Association Master Chat** (18 February 2021; hurricane primer)
2020 **WDJT-TV/CBS 58** (13 December 2020; La Niña and Wisconsin winter weather)
2020 **WDJT-TV/CBS 58** (14 June 2020; extreme rainfall in Wisconsin)
2020 **UWM Alumni Magazine** (8 June 2020; Spring 2020 semester reflection)
2020 **Song-a-Day #4045** (28 January 2020; songification of Evans et al. (2014) abstract)
2019 **AMS On The Air Podcast** (18 June 2019; extratropical transition of tropical cyclones)
2019 **Developmental Testbed Center Newsletter** (Spring 2019; vision for NWP research)
2019 **UWM Report** (2 May 2019; weather balloon launch)
2019 **WISN-TV** (1 May 2019; weather balloon launch)
2019 **Ozaukee News Graphic** (14 March 2019; letter to the editor on weather vs. climate)
2019 **Ozaukee Press** (6 March 2019; letter to the editor on weather vs. climate)
2019 **DTC *Transitions* Newsletter** (Spring 2019; Director's Corner article on the FV3 model)
2018 **UWM Letters & Science InFocus** (October 2018; Science-A-Thon participation)
2018 **WDJT-TV/CBS 58** (14 September 2018; Hurricane Florence interview)
2018 **Weather Underground** (6 June 2018; Tropical Storm Alberto interview)
2018 **UWM Report** (19 April 2018; Atmospheric Science program changes)
2018 **UWM Today** (19 April 2018; Innovative Weather and Atmospheric Science program)
2018 **UWM Report** (18 April 2018; late-ending winter weather in Wisconsin)
2018 **Weather Underground** (19 February 2018; Tropical Cyclone Kelvin interview)
2017 **WISN-TV** (30 August 2017; Hurricane Harvey interview)
2017 **Milwaukee Area Science Advocates** (13 July 2017; "Actual Living Scientist" sketch)
2017 **UWM Atmospheric Science Promo** (February 2017; undergraduate program)
2016 **News@Unidata** (23 May 2016; deployment of AWIPS II at UWM)
2016 **UWM PantherVision** (4 March 2016; El Niño impacts on Wisconsin weather)
2016 **The Daily Beast** (15 January 2016; Hurricane Alex interview)
2015 **WITI-TV/FOX 6** (25 February 2015; Milwaukee Air & Water Show weather)
2015 **WITI-TV/FOX 6** (24 February 2015; Lake Michigan ice cover)
2015 **WDJT-TV/CBS 58** (23 February 2015; Lake Michigan ice cover)
2014 **UWM Report** (20 November 2014; UWM StormReady University designation)

2012 **UCAR News** (2 July 2012; eastern United States derecho)
2011 **UCAR News** (6 May 2011; Tropical Storm Erin research)
2010 **LiveScience** (12 September 2010; central United States derecho)
2010 **UCAR News** (18 August 2010; central United States derecho)

Presentations *(advised student)*

2025

Adams-Selin, R. D., H. Vagasky, *D. V. Blount*, and **C. Evans**, 2025: Low-frequency gravity waves within mesoscale convective system stratiform regions. *Abstract, 4th Symp. on Mesoscale Processes*, New Orleans, LA, Amer. Meteor. Soc., 9.5.

Adams-Selin, R. D., H. Vagasky, *D. V. Blount*, and **C. Evans**, 2025: Low-frequency gravity waves within mesoscale convective system stratiform regions. *Abstract, 2025 ARM/ASR Joint User Facility and PI Meeting*, Rockville, MD, US Dept. of Energy, 3.45.

Barkas, K. R., and **C. Evans**, 2025: Toward quantifying the overlap between severe weather and hurricane seasons in the southeast United States. *Abstract, 24th Student Conf.*, New Orleans, LA, Amer. Meteor. Soc., S31.

Blount, D. V., **C. Evans**, and R. D. Adams-Selin, 2025: A preliminary analysis of the contributions of line-end vortices, gravity waves, and environmental flow to mesoscale convection system rear inflow and stratiform region structure in numerical simulations. *Abstract*, *4th Symp. on Mesoscale Processes*, New Orleans, LA, Amer. Meteor. Soc., 9.4.

Blount, D. V., **C. Evans**, R. D. Adams-Selin, and H. Vagasky, 2025: An analysis of the contributions of line-end vortices and gravity waves to mesoscale convective system rear inflow and stratiform region structure in numerical simulations. *Abstract, 2025 ARM/ASR Joint User Facility and PI Meeting*, Rockville, MD, US Dept. of Energy, 3.47.

Boyle, K. G., **C. Evans**, and S. Kravtsov, 2025: Downstream effects of Northern Hemisphere extratropical transition in a future climate. *Abstract*, *38th Conf. on Climate Variability and Change*, New Orleans, LA, Amer. Meteor. Soc., 897.

Evans, C., 2025: Performance of a real-time, high-resolution Model for Prediction Across Scales (MPAS) forecast system during HFIP 2024. *Abstract, 2025 Tropical Cyclone Operations and Research Forum*, Lakeland, FL, Natl. Oceanic and Atmos. Administration, 3.4.

Evans, C., L. Bengtsson, A. Jensen, S. Trahan, N. Wang, M. Barlage, G. Grell, and E. Grell, 2025: Modeling system advancements for atmospheric river applications. *NOAA Atmospheric River Workshop*, virtual, Natl. Oceanic and Atmos. Administration, 5.1.

2024

Blount, D. V., **C. Evans**, R. D. Adams-Selin, and H. Vagasky, 2024: A preliminary analysis of line-end vortex contributions to rear-to-front flow in observed and modeled mesoscale convective systems. *Abstract, 24th Symp. on Meteor. Obs. and Instrumentation*, Baltimore, MD, Amer. Meteor. Soc.

Blount, D. V., **C. Evans**, and R. D. Adams-Selin, 2024: A preliminary analysis of the contributions of line-end vortices, gravity waves, and environmental flow to mesoscale convection system rear inflow and stratiform region structure in numerical simulations. *Abstract*, *31st Conf. on Severe Local Storms*, Virginia Beach, VA, Amer. Meteor. Soc.

DeYoung, C. P., and **C. Evans**, 2024: A preliminary assessment of the HRRR's ability to predict the Great Lakes lake-breeze front and marine atmospheric boundary layer. *Abstract, 22nd Symp. on the Coastal Environment*, Baltimore, MD, Amer. Meteor. Soc., 1.3.

Evans, C., 2024: Tropical cyclone forecasts at GSL using MPAS. *Abstract, 2024 HFIP Annual Meeting*, Miami, FL, Natl. Oceanic and Atmos. Administration, 3C.4.

Hickok, A. O., *M. P. Vossen*, and **C. Evans**, 2024: Towards an updated climatology of overland tropical cyclone maintenance and intensification in non-/weakly baroclinic environments. *Abstract, 6th Spec. Symp. on Tropical Meteor. and Trop. Cyclones*, Baltimore, MD, Amer. Meteor. Soc.

Hickok, A. O., *M. P. Vossen*, and **C. Evans**, 2024: Towards an updated climatology of overland tropical cyclone maintenance and intensification in non-/weakly baroclinic environments. *Abstract, 16th UWM Undergraduate Research Symposium*, Milwaukee, WI.

Hickok, A. O., *M. P. Vossen*, and **C. Evans**, 2024: Towards an updated climatology of overland tropical cyclone maintenance and intensification in non-/weakly baroclinic environments. *Abstract, 36th Conf. on Hurricanes and Tropical Meteorology*, Long Beach, CA, Amer. Meteor. Soc.

Vossen, M. P., and **C. Evans**, 2024: Thermodynamics of overland tropical cyclone intensity change in weakly/non-baroclinic environments. *Abstract, 36th Conf. on Hurricanes and Tropical Meteorology*, Long Beach, CA, Amer. Meteor. Soc.

2023

Adams-Selin, R. D., **C. Evans**, H. C. Vagasky, and *D. V. Blount*, 2023: Identification of low-frequency gravity waves within mesoscale convective system stratiform regions. *Abstract, 2023 Joint ARM User Facility and ASR PI Meeting,* Rockville, MD, US Dept. of Energy, 4.48.

Blount, D. V., **C. Evans**, and R. D. Adams-Selin, 2023: A preliminary analysis of low-frequency gravity wave, line-end vortex, and environmental flow contributions to rear-to-front flow in observed MCSs. *Abstract, 3rd Symp. on Mesoscale Processes*, Denver, CO, Amer. Meteor. Soc., 283.

Blount, D. V., **C. Evans**, R. D. Adams-Selin, and H. Vagasky, 2023: A preliminary analysis of low-frequency gravity wave, line-end vortex, and environmental flow contributions to rear-to-front flow in observed MCSs. *Abstract, 20th Conf. on Mesoscale Processes*, Madison, WI, Amer. Meteor. Soc., 7.2.

Brown, G. R. H., and coauthors, 2023: The Climate Consensus network – empowering current and future scientists to engage in climate outreach within our universities. *Abstract, 32nd Conf. on Education*, Denver, CO, Amer. Meteor. Soc., 74.

DeYoung, C. P., and **C. Evans**, 2023: A preliminary assessment of the HRRR's ability to predict the Great Lakes lake-breeze front and marine atmospheric boundary layer. *Abstract, 2023 Great Lakes Operational Meteorology Workshop*, Madison, WI.

DeYoung, C. P., and **C. Evans**, 2023: A preliminary assessment of the High-Resolution Rapid Refresh model's ability to predict the Great Lakes lake-breeze front and marine atmospheric boundary layer. *Abstract, 32nd Conf. on Weather Analysis and Forecasting*, Madison, WI, Amer. Meteor. Soc., 86.

Hickok, A. O., *M. P. Vossen*, and **C. Evans**, 2023: Towards an updated climatology of overland tropical cyclone maintenance and intensification in non-/weakly baroclinic environments. *Abstract, 22nd Annual Student Conference*, Denver, CO, Amer. Meteor. Soc., S253.

Hickok, A. O., *M. P. Vossen*, and **C. Evans**, 2023: Towards an updated climatology of overland tropical cyclone maintenance and intensification in non-/weakly baroclinic environments. *Abstract, 15th UWM Undergraduate Research Symposium*, Milwaukee, WI.

Hickok, A. O., *M. P. Vossen*, and **C. Evans**, 2023: Towards an updated climatology of overland tropical cyclone maintenance and intensification in non-/weakly baroclinic environments. *Abstract, 32nd Conf. on Weather Analysis and Forecasting*, Madison, WI, Amer. Meteor. Soc., 106.

Prince, K. C., and **C. Evans**, 2023: Convectively generated negative potential vorticity enhancing the jet stream through an inverse energy cascade during the extratropical transition of Hurricane Irma. *Abstract, 5th Spec. Symp. on Tropical Meteorology and Tropical Cyclones*, Denver, CO, Amer. Meteor. Soc., 14.4.

Vagasky, H., R. D. Adams-Selin, **C. Evans**, and *D. V. Blount*, 2023: Observations of convectively generated gravity waves within the stratiform region of mesoscale convective systems. *Abstract, 20th Conf. on Mesoscale Processes*, Madison, WI, Amer. Meteor. Soc., 32.

Vossen, M. P., and **C. Evans**, 2023: Thermodynamics of overland tropical cyclone intensity change in weakly/non-baroclinic environments. *Abstract, 5th Spec. Symp. on Tropical Meteorology and Tropical Cyclones*, Denver, CO, Amer. Meteor. Soc., 8.4.

2022

Adams-Selin, R. D., J. Mascio, and **C. Evans**, 2022: Establishing a holistic understanding of the circulations of mesoscale convective system stratiform regions. *Abstract, 2022 Joint ARM/ASR PI Meeting*, Rockville, MD, 4.58.

Blount, D. V., **C. Evans**, I. L. Jirak, A. Dean, and S. Kravtsov, 2022: An objective vertical thermodynamic profile shape classification method: formulation and application to forecast verification. *Abstract, 31st Conf. on Weather Analysis and Forecasting/27th Conf. on Numerical Weather Prediction*, Houston, TX, Amer. Meteor. Soc., J14.1.

Hanrahan, J., and coauthors, 2022: Building capacity for climate change outreach: supporting, encouraging, and inspiring scientists within our academic institutions. *Abstract, 2022 Earth Educators Rendezvous*, Minneapolis, MN, Natl. Assoc. of Geoscience Teachers.

Hanrahan, J., and coauthors, 2022: Creating a multi-institution outreach network to improve climate literacy. *Abstract, 10th Symp. on the Weather, Water, and Climate Enterprise*, Houston, TX, Amer. Meteor. Soc., 274.

Hanrahan, J., and coauthors, 2022: The Climate Consensus network – creating capacity for climate outreach within our universities. *Abstract, AGU Fall Meeting*, Chicago, IL, ED15C-0376.

Metz, N. D., and coauthors, 2022: Atmospheric rivers over the Northeast United States. *Abstract, AGU Fall Meeting*, Chicago, IL, A55M-1275.

Prince, K. C., **C. Evans**, and S. Kravtsov, 2022: A case-study analysis of convective-scale contributions to tropical cyclones' interactions with the midlatitude waveguide. *Abstract, 35th Conf. on Hurricanes and Tropical Meteorology*, New Orleans, LA, Amer. Meteor. Soc., 13C.3.

Prince, K. C., **C. Evans**, and S. Kravtsov, 2022: A case-study analysis of convective-scale contributions to tropical cyclones' interactions with the midlatitude waveguide. *Abstract, MeteoXchange ECS Conference*, Virtual/Online, Germany Federal Ministry of Education and Research, 5.1.

Prince, K., and **C. Evans**, 2022: The importance of convective-scale processes in a recent tropical cyclone-midlatitude waveguide interaction. *Abstract, 31st Conf. on Weather Analysis and Forecasting/27th Conf. on Numerical Weather Prediction*, Houston, TX, Amer. Meteor. Soc., J9.1.

Spencer, M. R., and **C. Evans**, 2022: The influence of mesoscale sea-surface temperature uncertainty on short-range forecasts of cold-season southeast United States severe weather events. *Abstract, 19th Conf. on Mesoscale Processes*, Houston, TX, Amer. Meteor. Soc., 11.5.

Spencer, M. R., and **C. Evans**, 2022: The influence of mesoscale sea-surface temperature uncertainty on short-range forecasts of cold-season southeast United States severe weather events. *Abstract, 30th Conf. on Severe Local Storms*, Santa Fe, NM, Amer. Meteor. Soc., 407141.

Vossen, M. P., and **C. Evans**, 2022: An investigation of thermodynamic maintenance and intensification mechanisms of tropical cyclones over land. *Abstract, 31st Conf. on Weather Analysis and Forecasting/27th Conf. on Numerical Weather Prediction*, Houston, TX, Amer. Meteor. Soc., 1A.5.

Vossen, M. P., and **C. Evans**, 2022: Thermodynamics of overland tropical cyclone intensity change in weakly/non-baroclinic environments. *Abstract, 35th Conf. on Hurricanes and Tropical Meteorology*, New Orleans, LA, Amer. Meteor. Soc., 14B.5.

2021

Blount, D. V., **C. Evans**, I. L. Jirak, and A. Dean, 2021: Verifying GFS short-range-forecast vertical thermodynamic profiles using an objective profile-shape classification method. *Abstract, 11th Conf. on Transition of Research to Operations*, New Orleans, LA, Amer. Meteor. Soc., 5A.7.

Kaminski, A. N., and **C. Evans**, 2021: Toward a satellite-based cyclone classification routine: a modern 3-yr climatology of North Atlantic and western North Pacific extratropical cyclones. *Abstract, 20th Student Conference*, New Orleans, LA, Amer. Meteor. Soc., 26.

Kaminski, A. N., and **C. Evans**, 2021: A modern 3-year climatology of North Atlantic and Western North Pacific extratropical cyclones. *Abstract, 13th UWM Undergraduate Research Symposium*, Milwaukee, WI.

McDermid, S., and coauthors, 2021: Creating a multi-institution outreach network to improve climate literacy. *Abstract, 2021 AGU Fall Meeting*, New Orleans, LA, Amer. Geophys. Union, SY45F-0818.

Prince, K. C., and **C. Evans**, 2021: Physical sensitivities in key processes associated with a tropical-cyclone/midlatitude-waveguide interaction. *Abstract, Mesoscale Processes Across Scales: Engaging with Communities in the Physical and Social Sciences*, New Orleans, LA, Amer. Meteor. Soc., 351.

Prince, K., and **C. Evans**, 2021: A climatology of indirect tropical cyclone interactions in the North Atlantic and western North Pacific basins. *Abstract, 34th Conf. on Hurricanes and Tropical Meteorology*, New Orleans, LA, Amer. Meteor. Soc., 14C.3.

Sarro, G. M., and **C. Evans**, 2021: An investigation of post-transition intensity, structural, and timing extremes for extratropically transitioning tropical cyclones. *Abstract, 34th Conf. on Hurricanes and Tropical Meteorology*, New Orleans, LA, Amer. Meteor. Soc., 145.

Spencer, M. R., and **C. Evans**, 2021: The influence of mesoscale sea-surface temperature uncertainty on short-range forecasts of cold-season southeast United States severe weather events. *Abstract, Mesoscale Processes Across Scales: Engaging with Communities in the Physical and Social Sciences*, New Orleans, LA, Amer. Meteor. Soc., 1.6.

Vossen, M. P., and **C. Evans**, 2021: An investigation of thermodynamic maintenance/intensification mechanisms of tropical cyclones over land. *Abstract, 4th Spec. Symp. on Tropical Meteorology and Tropical Cyclones*, New Orleans, LA, Amer. Meteor. Soc., 11.1.

Vossen, M. P., and **C. Evans**, 2021: A preliminary investigation of the thermodynamics supporting non-/weakly baroclinic tropical cyclone overland maintenance and intensification. *Abstract, 34th Conf. on Hurricanes and Tropical Meteorology*, New Orleans, LA, Amer. Meteor. Soc., 93.

2020

Blount, D. V., **C. Evans**, I. L. Jirak, and A. R. Dean, 2020: An evaluation of vertical thermodynamic profiles and derived stability parameters from parallel FV3- and spectral-model GFS forecasts. *Abstract*, *30th Conf. on Weather Analysis and Forecasting/26th Conf. on Numerical Weather Prediction*, Boston, MA, Amer. Meteor. Soc., 146.

Blount, D. V., **C. Evans**, I. L. Jirak, and A. R. Dean, 2020: An evaluation of vertical thermodynamic profiles and derived stability parameters from parallel FV3- and spectral-model GFS forecasts. *Abstract*, *UFS Users Workshop*, Boulder, CO, Natl. Oceanic and Atmos. Administration.

Cordeira, J. M., *A. Kaminski*, N. D. Metz, M. Duncan, K. Bachli, M. Ericksen, I. Glade, C. Roberts, and **C. Evans**, 2020: A climatology of atmospheric rivers over the northeast US. *Abstract, 33rd Conf. on Climate Variability and Change*, Boston, MA, Amer. Meteor. Soc., 6A.3.

Kaminski, A. N., N. D. Metz, J. M. Cordeira, M. Duncan, K. Bachli, M. Ericksen, I. Glade, C. Roberts, and **C. Evans**, 2020: A climatology of atmospheric rivers over the northeast United States. *Abstract, 12th UWM Undergraduate Research Symposium*, Milwaukee, WI.

Metz, N. D., J. M. Cordeira, and **C. Evans**, 2020: A multi-year, multi-institution collaborative research project developed during the Northeast Partnership for Atmospheric and Related Sciences (NEPARS) REU program. *Abstract, 29th Conf. on Education*, Boston, MA, Amer. Meteor. Soc., 1252.

Prince, K., and **C. Evans**, 2020: A climatology of indirect tropical cyclone interactions. *Abstract, 30th Conf. on Weather Analysis and Forecasting/26th Conf. on Numerical Weather Prediction*, Boston, MA, Amer. Meteor. Soc., 12D.4.

Sarro, G. M., and **C. Evans**, 2020: An investigation of post-transition intensity, structural, and timing extremes for extratropically transitioning tropical cyclones. *Abstract, 19th Student Conference*, Boston, MA, Amer. Meteor. Soc., S246.

Sarro, G. M., and **C. Evans**, 2020: An investigation of post-transition extremes for extratropically transitioning tropical cyclones. *Abstract, 12th UWM Undergraduate Research Symposium*, Milwaukee, WI.

Schaffer, J., P. J. Roebber, and **C. Evans**, 2020: Using evolutionary programming to generate improved tropical cyclone intensity forecasts. *Abstract, 19th Conf. on Artificial Intelligence and its Applications to the Environmental Sciences*, Boston, MA, Amer. Meteor. Soc., J43.5.

Schaffer, J., P. J. Roebber, and **C. Evans**, 2020: Using evolutionary programming to generate improved tropical cyclone intensity forecasts. *Abstract, 74th Interdepartmental Hurricane Conference*, Lakeland, FL, Natl. Oceanic and Atmos. Administration, 9.7.

2019

Cuhel, R., A. Scheib, C. Aguilar, and **C. Evans**, 2019: Match-mismatch: El Niño and a coincident derecho stimulate yellow perch recruitment in a previously decimated Lake Michigan fishery. *2019 Aquatic Sciences Meeting*, San Juan, PR, Assoc. for the Sciences of Limnology and Oceanography, AS005-3.

Evans, C., 2019: Quantifying the influence of sea-surface temperature uncertainty on cool-season severe weather events. *VORTEX-SE 2019 Investigator Meeting*, Huntsville, AL, NOAA, T6.

Kaminski, A. N., M. N. Duncan, N. D. Metz, J. M. Cordeira, and **C. Evans**, 2019: A climatology of atmospheric rivers in the northeastern United States. *Abstract, 11th UWM Undergraduate Research Symposium*, Milwaukee, WI, 92.

Prince, K., and **C. Evans**, 2019: A climatology of indirect tropical cyclone interactions in the Atlantic basin. *Abstract, Special Symposium on Mesoscale Meteorological Extremes: Understanding, Prediction, and Projection*, Phoenix, AZ, Amer. Meteor. Soc., 1.23.

Prince, K., and **C. Evans**, 2019: A climatological analysis of indirect tropical cyclone interactions in the North Atlantic and Northwest Pacific basins. *Abstract, 19th Cyclone Workshop*, Seeon, Germany, 4.4.

Sarro, G. M., and **C. Evans**, 2019: An investigation of intensity, structural, and timing extremes for tropical cyclones that become extratropical. *Abstract, 11th UWM Undergraduate Research Symposium*, Milwaukee, WI, 163.

Schaffer, J., P. J. Roebber, and **C. Evans**, 2019: Using evolutionary programming to generate improved tropical cyclone intensity forecasts. *Abstract, 18th Conf. on Artificial Intelligence and its Applications to the Environmental Sciences*, Phoenix, AZ, Amer. Meteor. Soc., 4B.1.

Schaffer, J., P. J. Roebber, and **C. Evans**, 2019: Using evolutionary programming to generate improved tropical cyclone intensity forecasts. *Abstract, 73rd Interdepartmental Hurricane Conference*, Miami, FL, Natl. Oceanic and Atmos. Administration, 9.2.

2018

Evans, C., and R. McTaggart-Cowan, 2018: Extratropical transition. *9th Intl. Workshop on Tropical Cyclones*, Honolulu, HI, World Meteorological Organization, 4.3.

Evans, C., S. J. Weiss, and I. L. Jirak, 2018: A preliminary evaluation of paired regional/convection-allowing model-forecast vertical profiles in warm-season, thunderstorm-supporting environments. *Abstract, 29th Conf. on Weather Analysis and Forecasting/25th Conf. on Numerical Weather Prediction*, Denver, CO, Amer. Meteor. Soc., 10A.5.

Evans, C., S. J. Weiss, I. L. Jirak, A. R. Dean, and D. S. Nevius, 2018: An evaluation of paired regional/convection-allowing model-forecast vertical profiles in warm-season, thunderstorm-supporting environments. *Abstract, 29th Conf. on Severe Local Storms*, Stowe, VT, Amer. Meteor. Soc., 5.5.

Kuroski, A., and **C. Evans**, 2018: A preliminary investigation of the conditional practical predictability of the 31 May 2013 Oklahoma heavy-rain-producing mesoscale convective system. *Abstract, 3rd Symposium on Multi-Scale Predictability: Data-model Integration and*

Uncertainty Quantification for Climate and Earth System Monitoring and Prediction, Austin, TX, Amer. Meteor. Soc., 367.

Kuroski, A., and **C. Evans**, 2018: An investigation of the conditional practical predictability of the 31 May 2013 heavy-rain-producing mesoscale convective system. *Abstract, 29th Conf. on Weather Analysis and Forecasting/25th Conf. on Numerical Weather Prediction*, Denver, CO, Amer. Meteor. Soc., P344592.

Kuroski, A., and **C. Evans**, 2018: An investigation of the conditional practical predictability of the 31 May 2013 heavy-rain-producing mesoscale convective system. *Abstract, 29th Conf. on Severe Local Storms*, Stowe, VT, Amer. Meteor. Soc., 6B.2.

Nevius, D. S., and **C. Evans**, 2018: The influence of vertical advection discretization in the WRF-ARW model on capping inversion representation in warm-season, thunderstorm-supporting environments. *Abstract, 29th Conf. on Weather Analysis and Forecasting/25th Conf. on Numerical Weather Prediction*, Denver, CO, Amer. Meteor. Soc., 12B.4.

Schaffer, J., P. J. Roebber, and **C. Evans**, 2018: Using evolutionary programming to generate improved tropical cyclone intensity forecasts. *Abstract, 72nd Interdepartmental Hurricane Conference*, Miami, FL, Natl. Oceanic and Atmos. Administration, 5.2.

Schaffer, J., P. J. Roebber, and **C. Evans**, 2018: Using evolutionary programming to generate improved tropical cyclone intensity forecasts. *Ext. Abstract, 33rd Conf. on Hurricanes and Tropical Meteorology*, Ponte Vedra Beach, FL, Amer. Meteor. Soc., 7B.5.

Schaffer, J., P. J. Roebber, and **C. Evans**, 2018: Using evolutionary programming to generate improved tropical cyclone intensity forecasts. *Abstract, 29th Conf. on Weather Analysis and Forecasting/25th Conf. on Numerical Weather Prediction*, Denver, CO, Amer. Meteor. Soc., 9A.4.

2017

Crossett, C., and **C. Evans**, 2017: An examination of the dynamics of a rear-inflow jet associated with an idealized mesoscale convective system. *Abstract*, *28th Conf. on Weather Analysis and Forecasting/24th Conf. on Numerical Weather Prediction*, Seattle, WA, Amer. Meteor. Soc., 10B.2.

Evans, C., and coauthors, 2017: The extratropical transition of tropical cyclones: cyclone evolution and direct impacts. *Abstract, 18th Cyclone Workshop*, Sainte-Adele, QC.

Grunzke, C., and **C. Evans**, 2017: Predictability and dynamics of warm-core mesoscale vortex formation with the 8 May 2009 "Super Derecho" event. *Abstract*, *28th Conf. on Weather Analysis and Forecasting/24th Conf. on Numerical Weather Prediction*, Seattle, WA, Amer. Meteor. Soc., 9B.3.

Schumacher, R. S., and coauthors, 2017: The legacy of the 2006 NCAR ASP colloquium, "The Challenge of Convective Forecasting," (a little more than) 10 years later. *Abstract, Lance Bosart Symposium*, Seattle, WA, Amer. Meteor. Soc., 306965.

2016

Crossett, C., and **C. Evans**, 2016: An examination of the dynamics of a rear-inflow jet associated with an idealized mesoscale convective system. *Abstract*, *28th Conf. on Severe Local Storms*, Portland, OR, Amer. Meteor. Soc., 15A.5.

Evans, C., T. L. Olander, C. S. Velden, and R. E. Hart, 2016: A proposed adjustment for the Advanced Dvorak Technique during extratropical transition. *Abstract*, *32nd Conf. on Hurricanes and Tropical Meteorology*, San Juan, PR, Amer. Meteor. Soc., 17C.3.

Evans, C., B. Burghardt, B. Burlingame, A. Keclik, and P. Roebber, 2016: On the short- to medium-range predictability of thunderstorm formation. *Abstract, Special Symposium on Seamless Weather and Climate Prediction: Expectations and Limits of Multi-Scale Predictability*, New Orleans, LA, Amer. Meteor. Soc., 2.2.

Grunzke, C., and **C. Evans**, 2016: Practical and intrinsic predictability of warm-core mesoscale vortex formation with the 8 May 2009 "Super Derecho" event. *Abstract, Special Symposium on Seamless Weather and Climate Prediction: Expectations and Limits of Multi-Scale Predictability*, New Orleans, LA, Amer. Meteor. Soc., 894.

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Professional Memberships & Honor Societies

2010-2012	American Geophysical Union
2005	Chi Epsilon Pi, Florida State University Chapter
2004	Phi Beta Kappa, Alpha Chapter of Florida
2003	National Society of Collegiate Scholars
2002-present	American Meteorological Society