

Curriculum Vita

Clark Evans

Personal Information

Current Address

UWM Dept. of Mathematical Sciences
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Contact Information

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Last Updated: 29 November 2017

DOB: 24 October 1983

Education

- 2009** **Florida State University, Ph.D., Meteorology**
Dissertation Advisor: Dr. Robert Hart
- 2006** **Florida State University, M.S., Meteorology**
Thesis Advisor: Dr. Robert Hart
- 2004** **Florida State University, B.S., Meteorology, Magna Cum Laude**
Minors: Physics, Mathematics
Research Advisor: Dr. Xiaolei Zou

Professional Positions

- 2016-present** **Associate Professor**
University of Wisconsin-Milwaukee, Department of Mathematical Sciences
- 2014-present** **Associate Chair for Atmospheric Science**
University of Wisconsin-Milwaukee, Department of Mathematical Sciences
- 2011-2016** **Assistant Professor**
University of Wisconsin-Milwaukee, Department of Mathematical Sciences
- 2009-2011** **Postdoctoral Fellow**
University Corporation for Atmospheric Research, Advanced Study Program
- 2004** **Research Assistant**
Florida Climate Center/Center for Ocean-Atmospheric Prediction Studies
- 2003-2004** **Undergraduate Research Assistant**
Florida State University, Department of Meteorology

Awards and Honors

- 2017** **Editors' Award**, *Monthly Weather Review* and *Weather and Forecasting*, American Meteorological Society

- 2009** **First Place**, Ph.D. Poster Competition, 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. Publications in preparation are not listed.

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 Proposals

- 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.
- 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; \$164,381; 8/1/15-7/31/18.
- 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.
- 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.
- 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.

Teaching Experience

Upper- and graduate-level courses at the University of Wisconsin-Milwaukee are typically offered once every two years. The year in which I last taught a given course is that which is listed below.

2017	Num. Weather Prediction	(Atm Sci 950, University of Wisconsin-Milwaukee)
2017	Mesoscale Meteorology	(Atm Sci 460, University of Wisconsin-Milwaukee)
2016	First Year Seminar	(Atm Sci 194, University of Wisconsin-Milwaukee)
2016	Tropical Meteorology	(Atm Sci 470, University of Wisconsin-Milwaukee)
2015	Synoptic Meteorology II	(Atm Sci 361, University of Wisconsin-Milwaukee)
2014	Synoptic Meteorology I	(Atm Sci 360, University of Wisconsin-Milwaukee)
2014	Survey of Meteorology	(Atm Sci 100, University of Wisconsin-Milwaukee)
2008	Current Weather Discussion	(MET 3520, Florida State University)

Advised Students

Graduate Students (as Major Professor)

2017-present	Jesse Schaffer	(M.S. expected Spring 2019; joint with P. Roebber)
2016-present	Aidan Kuroski	(M.S. expected Spring 2018)
2016-present	David Nevius	(M.S. expected Spring 2018)
2016-present	Kevin Prince	(M.S. expected Spring 2018)
2015-2017	Caitlin Crossett	(M.S.; now Ph.D. candidate, Univ. of Vermont)
2014-2016	Alexandra Keclik	(M.S.; now with NWS, Chanhassen, MN)
2014-2016	Bryan Burlingame	(M.S.; now with Wantable, Inc., Milwaukee, WI)
2014-2016	Caleb Grunzke	(M.S.; now with CIMMS/SPC, Norman, OK)
2013-2015	Juliana Karloski	(M.S.; now with Innovative Weather, Milwaukee, WI)
2012-2014	Alex Manion	(M.S.; now with NWS, Pontiac, MI)
2011-2013	Brock Burghardt	(M.S.; Ph.D. 2017, Texas Tech; now with WeatherBELL)

Undergraduate and High School Students

2017	Zachary Michael	(High School Student, Lake in the Hills, IL)
2017	Mackenzie Nuthals	(Capstone Advisor, Univ. of Wisconsin-Milwaukee)
2016	Alec Muniz	(Capstone Advisor, Univ. of Wisconsin-Milwaukee)
2015	Hillary (Lily) Chapman	(Capstone Advisor, Univ. of Wisconsin-Milwaukee)
2013	Kyle Koval	(Capstone Advisor, Univ. of Wisconsin-Milwaukee)
2013	Karleisa Rogacheski	(Capstone Advisor, Univ. of Wisconsin-Milwaukee)
2010	Dereka Carroll (Smith)	(SOARS Research Mentor, NCAR)

Thesis or Dissertation Committee Member

2017	Hillary (Lily) Chapman	(M.S., University of Wisconsin-Milwaukee)
2017	Russell Danielson	(M.S., University of Wisconsin-Milwaukee)
2016	Brian Griffin	(Ph.D., University of Wisconsin-Milwaukee)
2016	Austin Harris	(M.S., University of Wisconsin-Milwaukee)
2016	Kaitlyn Heinlein	(M.S., University of Wisconsin-Milwaukee)
2016	Timm Uhlmann	(M.S., University of Wisconsin-Milwaukee)
2015	Noriyuki Sugiyama	(Ph.D., University of Wisconsin-Milwaukee)
2015	Dawn Kopacz	(Ph.D., University of Wisconsin-Milwaukee)
2015	Justin Weber	(M.S., University of Wisconsin-Milwaukee)
2014	Joshua Verbeten	(M.S., University of Wisconsin-Milwaukee)
2013	Joseph Pehoski	(M.S., University of Wisconsin-Milwaukee)
2012	Jeremy Duggan	(M.S., University of Wisconsin-Milwaukee)
2012	John Peters	(M.S., University of Wisconsin-Milwaukee)

Journal and Proposal Reviewer

Bulletin of the American Meteorological Society
Climate Dynamics
Geophysical Research Letters
Journal of Applied Meteorology and Climatology
Journal of Climate
Journal of Geophysical Research-Atmospheres
Journal of Geophysical Research-Oceans
Journal of the Atmospheric Sciences
Monthly Weather Review
National Science Foundation
Quarterly Journal of the Royal Meteorological Society
Weather and Forecasting

Invited Colloquia and Seminars

- 2018** **Northern Illinois University, Dept. of Geography**
"The Rear-Inflow Jet Evolution of Idealized, Mature Mesoscale Convective Systems"
- 2017** **St. Cloud State University, 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** **University 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 University, 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** **University 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** **University of Wisconsin-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 University, Dept. of Earth, Ocean, and Atmospheric Science**
"A Unique Pathway to Tropical Cyclogenesis: Tropical Storm Erin (2007)"

- 2010** **University of Wisconsin-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”

Visitor Appointments and Invited Workshops

- 2018** **NCEP Research Collaboration Program**
 NOAA/NWS/Storm Prediction Center, Norman, Oklahoma
- 2017** **Hazardous Weather Testbed Spring Forecasting Experiment (also 2011-2013, 2015)**
 NOAA/National Severe Storms Laboratory, Norman, Oklahoma
- 2013** **Visiting Scientist Program**
 NCAR/NESL/Mesoscale and Microscale Meteorology Division, Boulder, Colorado
- 2012** **Visiting Scientist Program**
 NOAA/National Hurricane Center, Miami, Florida
- 2012** **“Shaping the Development of EarthCube to Enable Advances in Data Assimilation and Ensemble Prediction” Workshop**
 Unidata/National Science Foundation, Boulder, Colorado
- 2006** **“The Challenge of Convective Forecasting” Summer Colloquium**
 UCAR/Advanced Study Program, Boulder, Colorado

Presentations *(advised student)*

2018

Evans, C., 2018: Teaching probability, uncertainty, and hazard communication to undergraduates: a first-year seminar experience. *Abstract, Special Symposium on Impact-Based Decision Support Services*, Austin, TX, Amer. Meteor. Soc., 818.

Kuroski, A., and **C. Evans**, 2018: A preliminary investigation of the condition 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.

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.

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, 20th Severe Storms and Doppler Radar Conference*, Ankeny, IA, Central Iowa NWA, 7.1.

Grunzke, C., and **C. Evans**, 2016: Predictability and dynamics of warm-core mesoscale vortex formation with the 8 May 2009 "Super Derecho" event. *Abstract, 28th Conf. on Severe Local Storms*, Portland, OR, Amer. Meteor. Soc., 13A.1.

Keclik, A. M., **C. Evans**, P. J. Roebber, and G. Romine, 2016: The influence of assimilated targeted observations upon ensemble forecasts of convection initiation during the Mesoscale Predictability Experiment. *Abstract, 28th Conf. on Severe Local Storms*, Portland, OR, Amer. Meteor. Soc., 11B.4.

Keclik, A. M., **C. Evans**, P. J. Roebber, G. Romine, and R. D. Torn, 2016: The influence of assimilating targeted observations upon ensemble forecasts of convection initiation. *Abstract, Special Symposium on Seamless Weather and Climate Prediction: Expectations and Limits of Multi-Scale Predictability*, New Orleans, LA, Amer. Meteor. Soc., 896.

2015

Burlingame, B. M., **C. Evans**, P. J. Roebber, G. Romine, and R. D. Torn, 2015: Planetary boundary layer parameterization's control on ensemble forecasts of convection initiation. *Abstract, 27th Conf. on Weather Analysis and Forecasting/23rd Conf. on Numerical Weather Prediction*, Chicago, IL, Amer. Meteor. Soc., 1B.5.

Evans, C., D. F. Van Dyke, and T. Lericos, 2015: How do forecasters utilize output from a convection-permitting ensemble forecast system? Case study of a high-impact precipitation event. *Abstract, 5th Conf. on Transition of Research to Operations*, Phoenix, AZ, Amer. Meteor. Soc., 818.

Grunzke, C., and **C. Evans**, 2015: A preliminary investigation into the practical and intrinsic predictability of the 8 May 2009 "Super Derecho" event. *Abstract, 17th Cyclone Workshop*, Pacific Grove, CA, 11.4.

Karloski, J. M., and **C. Evans**, 2015: Seasonal influences upon and long-term trends in the length of the Atlantic hurricane season. *Abstract, 27th Conf. on Weather Analysis and Forecasting/23rd Conf. on Numerical Weather Prediction*, Chicago, IL, Amer. Meteor. Soc., 4B.1.

Kecklik, A. M., **C. Evans**, P. J. Roebber, G. Romine, and R. D. Torn, 2015: The influence of assimilating targeted observations upon ensemble forecasts of convection initiation. *Abstract, 27th Conf. on Weather Analysis and Forecasting/23rd Conf. on Numerical Weather Prediction*, Chicago, IL, Amer. Meteor. Soc., 1B.4.

2014

Burlingame, B. M., **C. Evans**, P. J. Roebber, G. Romine, and R. D. Torn, 2014: A preliminary investigation into the influence of initial condition and planetary boundary layer parameterization uncertainty upon the intrinsic predictability of convection initiation. *Abstract, 27th Conf. on Severe Local Storms*, Madison, WI, Amer. Meteor. Soc., 51.

Evans, C., and R. S. Schumacher, 2014: The influence of the low-level jet upon the overland reintensification of Tropical Storm Erin (2007). *Abstract, 26th Conf. on Weather Analysis and Forecasting/22nd Conf. on Numerical Weather Prediction*, Atlanta, GA, Amer. Meteor. Soc., 574.

Evans, C., and R. S. Schumacher, 2014: The predictability and dynamics of the overland reintensification of Tropical Storm Erin (2007). *Abstract, 31st Conf. on Hurricanes and Tropical Meteorology*, San Diego, CA, Amer. Meteor. Soc., 8D.8.

Kecklik, A. M., B. M. Burlingame, **C. Evans**, P. J. Roebber, G. Romine, and R. D. Torn, 2014: A preliminary investigation into the practical predictability of convection initiation during the Mesoscale Predictability Experiment (MPEX). *Abstract, 27th Conf. on Severe Local Storms*, Madison, WI, Amer. Meteor. Soc., 64.

Manion, A., **C. Evans**, T. Olander, and C. Velden, 2014: An evaluation of Advanced Dvorak Technique-derived intensity estimate errors and biases during extratropical transition utilizing synthetic satellite imagery. *Abstract, 31st Conf. on Hurricanes and Tropical Meteorology*, San Diego, CA, Amer. Meteor. Soc., 13C.2.

Manion, A., **C. Evans**, J. Sears, C. Velden, and T. Olander, 2014: An evaluation of Advanced Dvorak Technique-derived intensity estimate errors and biases during the extratropical transition of tropical cyclones. *Abstract, 26th Conf. on Weather Analysis and Forecasting/22nd Conf. on Numerical Weather Prediction*, Atlanta, GA, Amer. Meteor. Soc., 8.6.

2012

Burghardt, B., **C. Evans**, and P. Roebber, 2012: An investigation into the short-range predictability of convection initiation: model verification and case study analyses. *Abstract, 26th Conf. on Severe Local Storms*, Nashville, TN, Amer. Meteor. Soc., 15.3.

Evans, C., 2012: Factors influencing extreme precipitation associated with Tropical Storm Fay (2008) across north Florida and southwest Georgia. *Abstract, 30th Conf. on Hurricanes and Tropical Meteorology*, Ponte Vedra Beach, FL, Amer. Meteor. Soc., P1.9.

Evans, C., and R. E. Hart, 2012: The thermodynamic evolution of an extratropically transitioning cyclone. *Proceedings, 4th Intl. Workshop on Extratropical Transition*, Sainte-Adele, Quebec, World Meteor. Org., 4.2.

Evans, C., M. L. Weisman, and L. F. Bosart, 2012: Analysis of the development of the intense warm-core mesovortex associated with the 8 May 2009 central United States "Super Derecho" event. *Abstract, 26th Conf. on Severe Local Storms*, Nashville, TN, Amer. Meteor. Soc., 8B.6.

Evans, C., and coauthors, 2012: The PRE-Depression Investigation of Cloud-Systems in the Tropics (PREDICT) field campaign: perspectives of early career scientists. *Abstract, 30th Conf. on Hurricanes and Tropical Meteorology*, Ponte Vedra Beach, FL, Amer. Meteor. Soc., S1.3.

- Evans, C.**, and coauthors, 2012: The PRE-Depression Investigation of Cloud-Systems in the Tropics (PREDICT) field campaign: educational perspectives of early career scientists. *Abstract, 21st Conf. on Education*, New Orleans, LA, Amer. Meteor. Soc., P108.
- Van Dyke, D. F., **C. Evans**, and T. Lericos, 2012: Convection-resolving ensemble-based forecasts of extreme precipitation associated with landfalling tropical cyclones: assessment of skill and utility in the operational forecasting process. *Abstract, 30th Conf. on Hurricanes and Tropical Meteorology*, Ponte Vedra Beach, FL, Amer. Meteor. Soc., 5C.1.
- Weisman, M. L., **C. Evans**, G. Romine, and K. Manning, 2012: The 29 June 2012 derecho: analysis of a 3 km WRF-ARW forecast and comparisons to the 8 May 2009 derecho event. *Abstract, 26th Conf. on Severe Local Storms*, Nashville, TN, Amer. Meteor. Soc., 8B.5.

2011

- Carroll, D.**, and **C. Evans**, 2011: Model verification of intense mesoscale convective vortices at the surface: simulation of Tropical Storm Erin (2007). *Abstract, 10th Annual Student Conference*, Seattle, WA, Amer. Meteor. Soc., S92.
- Cordeira, J. M., H. M. Archambault, K. S. Griffin, L. F. Bosart, and **C. Evans**, 2011: Early career scientist involvement in the PRE-Depression Investigation of Cloud-systems in the Tropics (PREDICT) field experiment. *Abstract, 36th Northeastern Storms Conference*, Taunton, MA.
- Evans, C.**, R. S. Schumacher, and T. J. Galarneau, Jr., 2011: Quantification of the processes driving the overland reintensification of Tropical Storm Erin (2007). *Abstract, 24th Conf. on Weather Analysis and Forecasting/20th Conf. on Numerical Weather Prediction*, Seattle, WA, Amer. Meteor. Soc., 15B.1.
- Evans, C.**, M. L. Weisman, and L. F. Bosart, 2011: Mesoscale vortex development mechanisms associated with the 8 May 2009 central United States derecho. *Abstract, 15th Cyclone Workshop*, Pacific Grove, CA, 16.
- Weisman, M. L., **C. Evans**, and L. F. Bosart, 2011: The 8 May 2009 "super derecho": analysis of a 3 km WRF-ARW real-time forecast. *Abstract, 15th Cyclone Workshop*, Pacific Grove, CA, 15.

2010

- Evans, C.** and R. E. Hart, 2010: The thermodynamic evolution of extratropically transitioning tropical cyclones. *Extended Abstract, 29th Conf. on Hurricanes and Tropical Meteorology*, Tucson, AZ, Amer. Meteor. Soc., P1.42.
- Evans, C.**, R. S. Schumacher, and T. J. Galarneau, Jr., 2010: The overland reintensification of North Atlantic Tropical Cyclone Erin (2007): physical and dynamical characteristics. *Extended Abstract, 29th Conf. on Hurricanes and Tropical Meteorology*, Tucson, AZ, Amer. Meteor. Soc., 15C.1.
- Evans, C.**, R. S. Schumacher, and T. J. Galarneau, Jr., 2010: The role of convective organization and the low-level jet in the overland reintensification of Tropical Storm Erin (2007). *Abstract, 25th Conf. on Severe Local Storms*, Denver, CO, Amer. Meteor. Soc., P3.6.
- Evans, C.**, M. L. Weisman, and L. F. Bosart, 2010: Vortex development mechanisms associated with the 8 May 2009 Central United States derecho event. *Abstract, 25th Conf. on Severe Local Storms*, Denver, CO, Amer. Meteor. Soc., 3B.5.
- Schumacher, R. S., **C. Evans**, and T. J. Galarneau, Jr., 2010: Influences of the diurnal cycle and the low-level jet on the reintensification of Tropical Cyclone Erin (2007). *Abstract, 29th Conf. on Hurricanes and Tropical Meteorology*, Tucson, AZ, Amer. Meteor. Soc., 15C.2.
- Weisman, M. L., **C. Evans**, and L. F. Bosart, 2010: The 8 May 2009 "super derecho": analysis of a 3 km WRF-ARW realtime forecast. *Abstract, 25th Conf. on Severe Local Storms*, Denver, CO, Amer. Meteor. Soc., 3B.4.

2009

- Evans, C.**, 2009: Experiences with an ensemble of real-time mesoscale WRF simulations across the southeast United States. *Abstract, 23rd Conf. on Weather Analysis and Forecasting/19th Conf. on Numerical Weather Prediction*, Omaha, NE, Amer. Meteor. Soc., JP3.7.
- Evans, C.**, T. J. Galarneau, Jr., and R. Schumacher, 2009: Factors contributing to sensitivity in the observed overland reintensification of TC Erin (2007) over Oklahoma. *Abstract, 23rd Conf. on Weather Analysis and Forecasting/19th Conf. on Numerical Weather Prediction*, Omaha, NE, Amer. Meteor. Soc., JP2.3.
- Evans, C.**, and R. E. Hart, 2009: Understanding the thermodynamic evolution of the tropical cyclone warm core during the extratropical transition process. *Abstract, 23rd Conf. on Weather Analysis and Forecasting/19th Conf. on Numerical Weather Prediction*, Omaha, NE, Amer. Meteor. Soc., 6B.5.

2008

- Evans, C.**, 2008: Analysis of the wind field associated with the extratropical transition of Bonnie (1998). *Extended Abstract, 28th Conf. on Hurricanes and Tropical Meteorology*, Orlando, FL, Amer. Meteor. Soc., 9C.1.
- Evans, C.**, and R. E. Hart, 2008: Daily to seasonal higher latitude North Atlantic tropical cyclone threat prediction. *Abstract, 28th Conf. on Hurricanes and Tropical Meteorology*, Orlando, FL, Amer. Meteor. Soc., P2A.6.
- Evans, C.**, and R. E. Hart, 2008: Analysis of the wind field evolution associated with the extratropical transition of Bonnie (1998). *Abstract, Tropical Meteorology Special Symposium*, New Orleans, LA, Amer. Meteor. Soc., JP3.44.

2007

- Evans, C.**, and R. E. Hart, 2007: Understanding the wind field evolution associated with the extratropical transition of tropical cyclone Bonnie (1998). *Abstract, 1st International Summit on Hurricanes and Climate Change*, Crete, Greece, Aegean Conferences.

2006

- Evans, C.**, 2006: Dynamics of the wind field expansion with extratropically transitioning tropical cyclones. *Extended Abstract, 27th Conf. on Hurricanes and Tropical Meteorology*, Monterey, CA, Amer. Meteor. Soc., 4A.6.
- Evans, C.**, and R. E. Hart, 2006: Medium-range to seasonal precursor conditions to higher latitude landfalls of extratropically transitioning hurricanes. *Extended Abstract, 27th Conf. on Hurricanes and Tropical Meteorology*, Monterey, CA, Amer. Meteor. Soc., P6.2.
- 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. *Extended Abstract, 27th Conf. on Hurricanes and Tropical Meteorology*, Monterey, CA, Amer. Meteor. Soc., P6.10.

2005

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Professional Memberships & Honor Societies

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| 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 |