

Curriculum Vita

Clark Evans

Personal Information

Current Address

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Contact Information

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Last Updated: 6 April 2018

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

- 2018** **Visiting Scientist**, NOAA/NWS/Storm Prediction Center, Norman, OK
- 2016-present** **Associate Professor**, University of Wisconsin-Milwaukee, Milwaukee, WI
- 2014-present** **Atmospheric Science Chair**, University of Wisconsin-Milwaukee, Milwaukee, WI
- 2013** **Visiting Scientist**, NCAR/Mesoscale and Microscale Meteorology Lab, Boulder, CO
- 2012** **Visiting Scientist**, NOAA/NWS/National Hurricane Center, Miami, FL
- 2011-2016** **Assistant Professor**, University of Wisconsin-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 University, Tallahassee, FL

Awards and Honors

- 2018** **Invited Participant**, Inaugural AMS Early Career Leadership Academy
- 2018** **Editors' Award**, *Monthly Weather Review* and *Weather and Forecasting*

- 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

- 2018-2019 UWM Research Growth Initiative**
 "A Climatology of Indirect Tropical Cyclone Interactions." \$45,722; 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.
- 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.

2018	Tropical Meteorology	(Atm Sci 470, University of Wisconsin-Milwaukee)
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)
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 Space Center Houston, Houston, TX)
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

2018-present	Giorgio Sarro	(Undergraduate Research Assistant)
2018	Austin Scheib	(Capstone Advisor)
2017	Zachary Michael	(High School Student, Lake in the Hills, IL)
2017	Mackenzie Nuthals	(Capstone Advisor)
2016	Alec Muniz	(Capstone Advisor)
2015	Lily Chapman	(Capstone Advisor)
2013	Kyle Koval	(Capstone Advisor)
2013	Karleisa Rogacheski	(Capstone Advisor)
2010	Dereka Carroll (Smith)	(SOARS Research Mentor, NCAR)

Thesis or Dissertation Committee Member

2018	Christian Grimm	(M.S., University of Wisconsin-Milwaukee)
2018	Cory Rothstein	(M.S., University of Wisconsin-Milwaukee)
2017	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)
2012	Marc Pilon	(M.S., University of Wisconsin-Milwaukee)
2012	Zachary Uttech	(M.S., University of Wisconsin-Milwaukee)

Professional Service

National and International Service

2018-present	Vice Chair , AMS Committee on Weather Analysis and Forecasting
2018	Organizer , AMS Special Symposium on Impact-Based Decision Support Services
2018	Session Chair , AMS 29 th Conf. on Wea. Anal. & Forecasting/25 th Conf. on NWP
2018	Session Chair , AMS 33 rd Conf. on Hurricanes and Tropical Meteorology
2017	Session Chair , AMS 28 th Conf. on Wea. Anal. & Forecasting/24 th Conf. on NWP
2017	Member , AMS 28 th Conf. on WAF/24 th Conf. on NWP Program Committee
2016-present	Member , AMS Committee on Weather Analysis and Forecasting
2012, 2016	Member , AMS Max Eaton Award Selection Committee
2016	Session Chair , AMS 32 nd Conf. on Hurricanes and Tropical Meteorology
2015	Panelist , 15 th Annual AMS Student Conference
2015	Member , 17 th Cyclone Workshop Science Committee
2014	Member , 8 th WMO International Workshop on Tropical Cyclones Working Group
2014	Session Chair , AMS 26 th Conf. on Wea. Anal. & Forecasting/22 nd Conf. on NWP
2013-2015	Member , AMS Weather Analysis and Forecasting Statement Revision Team
2013	Panelist , 1 st Annual AMS Conference for Early Career Professionals
2012-present	Associate Editor , <i>Monthly Weather Review</i>
2012	Rapporteur , 4 th WMO International Workshop on Extratropical Transition
2010	Session Chair , AMS 25 th Conf. on Severe Local Storms
2010	Member , 7 th WMO International Workshop on Tropical Cyclones Working Group
2010	Member , AMS 25 th Conf. on Severe Local Storms Program Committee
2010	Member , AMS 29 th Conf. on Hurricanes/Tropical Meteor. Program Committee

University Service

2017-present	Recruitment Ambassador , UWM College of Letters and Science
2014	Coordinator , UWM StormReady Initiative
2012-present	UCAR Member Representative , University of Wisconsin-Milwaukee
2011-present	Local Manager , WxChallenge Forecasting Competition
2011-present	Advisor , UWM Atmospheric Science Club Student Organization

Department/Program Service

2017-present	Search Committee Chair , UWM Atmospheric Science Visiting Asst. Professor Hire
2017-present	Member , UWM Dept. of Mathematical Sciences Undergraduate Committee
2017-present	Member , UWM Dept. of Mathematical Sciences Strategic Planning Committee
2017-present	Member , UWM Dept. of Mathematical Sciences Dept. Mgr. Search Committee
2017-2018	Member , UWM Dept. of Mathematical Sciences Merit Committee
2016-2017	Member , UWM Dept. of Mathematical Sciences Assessment Committee
2014-present	Member , UWM Dept. of Mathematical Sciences Graduate Committee
2013-2014	Chair , UWM Dept. of Mathematical Sciences Event Organizing Committee
2011-2016	Member , UWM Dept. of Mathematical Sciences Colloquium Committee
2011-2016	Member , UWM Dept. of 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

Public Service

2016-present **Trustee**, Village of Grafton Joint Library Board

2014-2015 **Member**, Village of Grafton Bicycle and Pedestrian Plan Committee

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

Invited Workshops and Testbed Programs

- 2018** **Hazardous Weather Testbed Spring Forecasting Experiment (six times since 2011)**
 NOAA/National Severe Storms Laboratory, Norman, OK
- 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

Presentations

(advised student)

2018

- 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.
- 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.
- 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.

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.

Keclik, 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.

Keclik, 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

Evans, C., 2005: Diagnosis of banded precipitation features associated with tropical cyclones during the extratropical transition process. *Extended Abstract, 21st Conf. on Weather Analysis and Forecasting/17th Conf. on Numerical Weather Prediction*, Washington, D.C., Amer. Meteor. Soc., P1.4.

Evans, C., and R. E. Hart, 2005: Towards a better understanding of and ability to forecast the wind field expansion during the extratropical transition process. *Extended Abstract, 21st Conf. on Weather Analysis and Forecasting/17th Conf. on Numerical Weather Prediction*, Washington, D.C., Amer. Meteor. Soc., P1.17.

Hart, R. E., and **C. Evans**, 2005: Short-term and long-term indicators of enhanced Atlantic tropical cyclone threat at higher latitudes. *Proceedings, 3rd Intl. Workshop on Extratropical Transition*, Perth, Australia.

Hart, R. E., J. L. Evans, and **C. Evans**, 2005: Synoptic composites of the ET lifecycle of North Atlantic TCs: Factors determining post-transition evolution. *Proceedings, 3rd Intl. Workshop on Extratropical Transition*, Perth, Australia.

Hart, R. E., J. L. Evans, and **C. Evans.**, 2005: Synoptic composites of the extratropical transition lifecycle of North Atlantic tropical cyclones: factors determining post-transition evolution. *Extended Abstract, 21st Conf. on Weather Analysis and Forecasting/17th Conf. on Numerical Weather Prediction*, Washington, D.C., Amer. Meteor. Soc., 6B.3.

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