

Curriculum Vita

Clark Evans

Personal Information

Current Address

UWM Dept. of Mathematical Sciences
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Milwaukee, WI 53201-0413

Contact Information

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Phone: (414) 229-4469

Last Updated: 12 February 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

- 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 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

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|---------------------|-------------------------------|--|
| 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 | Hillary (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

| | | |
|-------------|-------------------------------|--|
| 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) |

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| 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

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|---------------------|---|
| 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 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

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|---------------------|---|
| 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

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|---------------------|---|
| 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

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|---------------------|---|
| 2016-present | Trustee , Village of Grafton Joint Library Board |
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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"
- 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

- 2017** **Hazardous Weather Testbed Spring Forecasting Experiment (also 2011-2013, 2015)**
 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., TBD.
- 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., TBD.
- 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., TBD.
- Roebber, P. J., and **C. Evans**, 2018: Evolutionary programming for probabilistic tropical cyclone intensity forecasts. *Abstract, 72nd Interdepartmental Hurricane Conference*, Miami, FL, 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., TBD.

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.

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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 |