

CURRICULUM VITAE
JASON M. CORDEIRA

PERSONAL INFORMATION

Department of Earth and Atmospheric Sciences (DEAS), ES351
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EDUCATION

- 2011 Ph D** Atmospheric Science
Department of Atmospheric and Environmental Science
University at Albany, State University of New York
Advisors: Dr. Lance Bosart and Dan Keyser
- 2008 MS** Atmospheric Science
Department of Atmospheric and Environmental Science
University at Albany, State University of New York
Advisor: Dr. Lance Bosart
Thesis: *A Multiscale Analysis of the "Perfect Storms" of 1991*
- 2005 BS** Meteorology, *Summa Cum Laude*
Minor: Technical Mathematics
Department of Chemical, Earth, Atmospheric and Physical Science
Plymouth State University, Plymouth, NH
Advisor: Dr. Eric Hoffman

TEACHING EXPERIENCE

- 2009** **Instructor**
AATM100 – Introduction to the Atmosphere (Summer)
DAES, University at Albany, Albany, NY
- 2008** **Instructor**
AATM100 – Introduction to the Atmosphere (Summer)
DAES, University at Albany, Albany, NY
- 2007** **Instructor**
AATM100 – Introduction to the Atmosphere (Summer)
DAES, University at Albany, Albany, NY

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2006 – 2008 **Graduate Teaching Assistant**
AATM211 – Introduction to Weather Analysis and Forecasts
Primary responsibilities included presenting weekly 45-minutes weather forecast discussions, grading, and holding office hours.

2005 – 2007 **Graduate Teaching Assistant**
AATM311 – Severe and Hazardous Weather (Fall Semesters)
Primary responsibilities included leading weekly student weather discussions, grading, and holding office hours.

RESEARCH EXPERIENCE

2008 – Present **Graduate Research Assistant**
DAES, University at Albany, Albany, NY
Research on the “Perfect Storms” of 1991, climatology of high lapse rates over North America, predecessor rain events over the Midwest US in September of 2008*, and seasonal climate variability associated with various North Pacific flow configurations.*
**collaboration with Thomas J. Galarneau, Jr.*

2008 **Collaborative Research Project**
DAES, University at Albany, Albany, NY
Modeling the influence of ice cover on lake-effect snowstorms over Lake Erie using the WRF-ARW
**collaboration with Dr. Neil Laird (Department of Geoscience, Hobart and William Smith Colleges, Geneva, NY) and Alan F. Srock (DAES).*

2006–2008 **Graduate Research Assistant (Summer)**
DAES, University at Albany, Albany, NY
Research on MS thesis. Emphasized meridional interactions between planetary, synoptic, and mesoscale features and the modification of the midlatitude environment during the “Perfect Storms” of 1991.

2005 **Research Assistant (Summer)**
Department of Geoscience, Hobart and William Smith Colleges, Geneva, NY
Research on the influence of ice cover on lake-effect snow events over Lake Erie. See refereed publications.
Research advisor: Dr. Neil Laird

2005 **Undergraduate Senior Research**
Department of Chemical, Earth, Atmospheric, and Physical Science
Plymouth State University, Plymouth, NH

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Research comparing and contrasting wind vectors and trajectories for atmospheric regimes over coastal New England during the NEAQS 2002 and ICARTT 2004 air quality campaigns. See non-refereed publications.

Research advisor: Dr. James Koermer

2004 **Research Assistant (Summer)**
Department of Chemical, Earth, Atmospheric, and Physical Science
Plymouth State University, Plymouth, NH
Operational forecasting for the NEAQS ICARTT 2004 air quality campaign. See non-refereed publications.
Research advisor: Dr. James Koermer

2004 **Intern Meteorologist (January)**
Mount Washington Observatory, New Hampshire
Research on mountain weather forecasting. METAR and Synoptic weather observation and encoding.

2003 **Research Assistant (Summer)**
Department of Chemical, Earth, Atmospheric, and Physical Science
Plymouth State University, Plymouth, NH
Analysis of sea breeze data during the NEAQS 2002 air quality campaign. See non-refereed publications.
Research advisor: Dr. James Koermer

PROFESSIONAL AFFILIATIONS

2003 – Present **American Meteorological Society**
2005 – Present **Graduate Students Employee Union**

REFEREED PUBLICATIONS

Cordeira, J. M. and N. F. Laird, 2008: The influence of ice cover on two lake-effect snow events over Lake Erie. *Mon. Wea. Rev.*, **136**, 2747–2763.

PREPRINTS AND NON-REFEREED PUBLICATIONS

Cordeira, J. M. and N. F. Laird, 2005: The impact of ice cover on two lake-effect snow events in the eastern Great Lakes region. Preprints, *11th Conference on Mesoscale Processes*, Albuquerque, NM, *Amer. Meteor. Soc.*, CD-ROM, P3M.4.

Koermer, J. P., **J. M. Cordeira**, E. G. Hoffman, 2005: Meteorological Differences between NEAQS 2002 and ICARTT/NEAQS 2004. Preprints, *Atmospheric Sciences and Air Quality Conferences*, San Francisco, CA, *Amer. Meteor. Soc.*, CD-ROM, 3.3.

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Koermer, J. P., J. Zabransky, Jr., E. G. Hoffman, T. A. Bray, R. J. Cloutier, **J. M. Cordeira**, M. S. DiProfio, A. N. Loconto, and M. G. Wellman, 2004: Planning forecasts for the coastal and offshore air quality measurement activities for the ICARTT summer 2004 campaign. Preprints, *6th Conference on Coastal Atmospheric and Oceanic Prediction and Processes*, San Diego, CA. *Amer. Meteor. Soc.*, CD-ROM, P1.7.

AUTHORED CONFERENCE AND SEMINAR PRESENTATIONS

Reverse chronological (2005 – present)

- Jul 2009** **IAMAS-IAPSO-IACS Joint Assembly, Montreal, QC, CA**
J. M. Cordeira and L. F. Bosart
Oral presentation: Intraseasonal climate variability and predictability: An extreme Arctic ridge from 27 Nov to 5 Dec 2007
- Jul 2009** **IAMAS-IAPSO-IACS Joint Assembly, Montreal, QC, CA**
J. M. Cordeira, T. J. Galarneau, Jr., and L. F. Bosart
Oral presentation: A climatology of high lapse rates and their influence on heat waves east of the Rocky Mountains
- Jun 2009** **4th Northeast Tropical Workshop, Rensselaerville, NY**
J. M. Cordeira and L. F. Bosart
Oral presentation: Linkages between tropical heating anomalies, tropical cyclones, and high-latitude ridge events
- Jun 2009** **23rd Weather Analysis and Forecasting Conference, Omaha, NE**
J. M. Cordeira and L. F. Bosart
Oral presentation: Seasonal climate variability and predictability: Recurring tropical cyclones, an extreme high-latitude ridge, and a landfalling atmospheric river
- Jun 2009** **23rd Weather Analysis and Forecasting Conference, Omaha, NE**
J. M. Cordeira, T. J. Galarneau, Jr., and L. F. Bosart
Oral presentation: A climatology of high lapse rates and their influence on heat waves east of the Rocky Mountains
- Mar 2009** **34th Northeastern Storms Conference, Springfield, MA**
J. M. Cordeira and L. F. Bosart
Oral presentation: Seasonal climate variability: Recurring tropical cyclones, extreme arctic ridging, and landfalling atmospheric rivers from 27 Nov – 5 Dec.
- Jan 2009** **21st Conference on Climate Variability and Change, Phoenix, AZ**
J. M. Cordeira and L. F. Bosart
Oral presentation: Seasonal climate variability resulting from extreme Arctic ridging during a major reconfiguration of the North Pacific atmospheric circulation from late November to early December 2007.

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- Nov 2008** **NOAA/NWS Northeast Regional Operational Workshop X, Albany, NY**
J. M. Cordeira, T. J. Galarneau, Jr., and L. F. Bosart
Oral presentation: A climatology of high lapse rates and associated synoptic-scale flow patterns over North America and the Northeast US.
- Oct 2008** **24th Conference on Severe Local Storms, Savannah, GA**
J. M. Cordeira, T. J. Galarneau, Jr., and L. F. Bosart
Oral presentation: A climatology of high lapse rates over North America (1974–2007).
- Oct 2008** **24th Conference on Severe Local Storms, Savannah, GA**
J. M. Cordeira, T. J. Galarneau, Jr., and L. F. Bosart
Poster presentation: Synoptic-scale flow patterns associated with high lapse rates over North America.
- Oct 2008** **3rd Lake Effect Conference, Oswego, NY**
J. M. Cordeira, A. F. Srock, and N. F. Laird
Oral presentation: The influence of ice cover on lake-effect snowstorms over Lake Erie using the WRF-ARW.
- Sep 2008** **14th Cyclone Workshop, Sainte-Adèle, Quèbec, Canada**
J. M. Cordeira and L. F. Bosart
Oral presentation: The “Perfect Storms” of late October and early November 1991: Large scale antecedent conditions.
- Sep 2008** **14th Cyclone Workshop, Sainte-Adèle, Quèbec, Canada**
J. M. Cordeira and L. F. Bosart
Oral presentation: The “Perfect Storms” of late October and early November 1991: Multiscale linked cyclones.
- Apr 2008** **28th Conference on Hurricanes and Tropical Meteorology, Orlando, FL**
J. M. Cordeira and L. F. Bosart
Oral presentation: Tropical-Midlatitude Interactions during the “Perfect Storms” of 1991.
- Mar 2008** **33rd Northeastern Storms Conference, Springfield, MA**
J. M. Cordeira and L. F. Bosart
Oral presentation: An Unusual Pathway to Oceanic Cyclogenesis: Linking “Perfect Storms” in the North Atlantic Ocean.
- Mar 2008** **MS Thesis Seminar, University at Albany, Albany, NY**
J. M. Cordeira
A multiscale analysis of the “Perfect Storms” of October and November 1991.
- Nov 2007** **NOAA/NWS Northeast Regional Operational Workshop IX, Albany, NY**
J. M. Cordeira and L. F. Bosart

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Oral presentation: An Unusual Pathway to Oceanic Cyclogenesis: Linking "Perfect Storms" in the North Atlantic Ocean.

- Jun 2007** **22nd Weather Analysis and Forecasting Conference, Park City, UT**
J. M. Cordeira and L. F. Bosart
Oral presentation: The "Perfect Storms" of 1991: An Intraseasonal Example of a Link Between Weather and Climate.
- Mar 2007** **32nd Northeastern Storms Conference, Springfield, MA**
J. M. Cordeira and L. F. Bosart
Oral presentation: The "Perfect Storms" of 1991: An Intraseasonal Example of a Link Between Weather and Climate.
- Jan 2007** **19th Conference on Climate Variability and Change, and Climate Change Manifested by Changes in Weather, San Antonio, TX**
J. M. Cordeira and L. F. Bosart
Poster presentation: The "Perfect Storms" of 1991: An Intraseasonal Example of a Link Between Weather and Climate.
- Nov 2006** **NOAA/NWS Northeast Regional Operational Workshop XIII, Albany, NY**
J. M. Cordeira and L. F. Bosart
Oral presentation: A Multiscale Analysis of the "Perfect Storms" of 1991.
- Oct 2006** **1st Lake Effect Conference, Oswego, NY**
J. M. Cordeira and N. F. Laird
Oral presentation: The Impact of Ice Cover on Two Lake-Effect Snow Events in the Eastern Great Lakes Region.
- Mar 2006** **31st Northeastern Storms Conference, Saratoga Springs, NY**
J. M. Cordeira and N. F. Laird
Oral presentation: The Impact of Ice Cover on Two Lake-Effect Snow Events in the Eastern Great Lakes Region.
- Oct 2005** **11th Conference on Mesoscale Processes, Albuquerque, NM**
J. M. Cordeira and N. F. Laird
Poster presentation: The Impact of Ice Cover on Two Lake-Effect Snow Events in the Eastern Great Lakes Region.
- Mar 2005** **30th Northeastern Storms Conference, Burlington, VT**
J. M. Cordeira, A. N. Loconto, and M. G. Wellman
Oral presentation: A Statistical Analysis of Precipitation and Tracks of Alberta Clippers in the Northeast United States.

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CO-AUTHORED CONFERENCE PRESENTATIONS

*Reverse chronological (2005–present); * denotes presenter*

- Jul 2009** **IAMAS-IAPSO-IACS Joint Assembly, Montreal, QC, CA**
L. F. Bosart, J. M. Cordeira, and H. M. Archambault
Oral presentation: Linked extreme weather events: Disruptive wild fires in California and severe cold and record-breaking rains in Mexico in late October 2007
- Jul 2009** **IAMAS-IAPSO-IACS Joint Assembly, Montreal, QC, CA**
L. F. Bosart, T. J. Galarneau, Jr., and J. M. Cordeira
Oral presentation: Storm-storm and storm-environment interactions during the 2008 North Atlantic Hurricane Season
- Jun 2009** **4th Northeast Tropical Workshop, Rensselaerville, NY**
L. F. Bosart, J. M. Cordeira, and H. M. Archambault
Oral presentation: Linked extreme weather events: Disruptive wild fires in California and severe cold and record-breaking rains in Mexico in late October 2007
- Jun 2009** **23rd Weather Analysis and Forecasting Conference, Omaha, NE**
L. F. Bosart, H. M. Archambault, and J. M. Cordeira
Oral presentation: Linked extreme weather events: Severe cold and record-breaking rains in Mexico and disruptive wild fires in California in late October 2007
- Mar 2009** **34th Northeastern Storms Conference, Springfield, MA**
L. F. Bosart* T. J. Galarneau, Jr., and J. M. Cordeira
Oral presentation: Storm-storm and storm-environment interactions during the 2008 Atlantic hurricane season.
- Mar 2009** **34th Northeastern Storms Conference, Springfield, MA**
T. J. Galarneau, J. M. Cordeira*, and L. F. Bosart
Poster presentation: The Importance of Elevated Mixed Layers in Urban Heat Wave Events East of the Rockies.
- Jan 2009** **21st Conference on Climate Variability and Change, Phoenix, AZ**
L. F. Bosart*, A. M. Archambault, and J. M. Cordeira
Oral presentation: Climate variability on intraseasonal time scales: Severe cold and record-breaking rains in Mexico and disruptive wild fires in California in late October 2007.
- Jan 2009** **21st Conference on Climate Variability and Change, AMS Symposium on Urban High Impact Weather, Phoenix, AZ**
T. J. Galarneau, Jr., J. M. Cordeira*, and L. F. Bosart
Poster presentation: The Importance of Elevated Mixed Layers in Urban Heat Wave Events East of the Rockies.

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- Nov 2008** **NOAA/NWS Northeast Regional Operational Workshop, Albany, NY**
L. F. Bosart*, T. J. Galarneau Jr., and J. M. Cordeira
Oral presentation: Here a TC, There a TC, Everywhere a TC: The “Spin” on the Active Part of the North Atlantic 2008 TC Season.
- Apr 2008** **28th Conference on Hurricanes and Tropical Meteorology**
L. F. Bosart, H. M. Archambault, and J. M. Cordeira
Oral presentation: Flooding in southern Mexico, tropical cyclone Noel and intense European storms in late October and early November 2007: Linked weather systems?