

Matthew David Parker

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Curriculum Vitae
April 2007

PROFESSIONAL EXPERIENCE

- 2005– **Dept. of Marine, Earth, & Atmospheric Sciences, North Carolina State University**
Assistant professor
- 2002–2005 **Dept. of Geosciences, University of Nebraska–Lincoln**
Assistant professor

EDUCATION

- 2002 **Colorado State University**, Fort Collins, Colorado
Ph.D., Atmospheric science (Mesoscale meteorology)
- 1999 **Colorado State University**, Fort Collins, Colorado
M.S., Atmospheric science (Mesoscale meteorology)
- 1996 **Valparaiso University**, Valparaiso, Indiana
B.S., Meteorology, Summa Cum Laude, with honors

REFEREED JOURNAL PUBLICATIONS

- Parker, M. D. and R. H. Johnson, 2000: Organizational modes of midlatitude mesoscale convective systems. *Mon. Wea. Rev.*, **128**, 3413–3436.
- Parker, M. D., S. A. Rutledge, and R. H. Johnson, 2001: Cloud-to-ground lightning in linear mesoscale convective systems. *Mon. Wea. Rev.*, **129**, 1232–1242.
- Parker, M. D., and R. H. Johnson, 2004: Structures and dynamics of quasi-2D mesoscale convective systems. *J. Atmos. Sci.*, **61**, 545–567.
- Parker, M. D., and R. H. Johnson, 2004: Simulated convective lines with leading precipitation. Part I: Governing dynamics. *J. Atmos. Sci.*, **61**, 1637–1655.
- Parker, M. D., and R. H. Johnson, 2004: Simulated convective lines with leading precipitation. Part II: Evolution and maintenance. *J. Atmos. Sci.*, **61**, 1656–1673.
- Parker, M. D., and J. C. Knievel, 2005: Do meteorologists suppress thunderstorms? Radar-derived statistics and the behavior of moist convection. *Bull. Amer. Meteor. Soc.*, **86**, 341–358.
- Parker, M. D., I. C. Ratcliffe, and G. M. Henebry, 2005: The July 2003 Dakota hailswaths: Creation, characteristics, and possible impacts. *Mon. Wea. Rev.*, **133**, 1241–1260.
- Kuchera, E. L.¹ and M. D. Parker, 2006: Severe convective wind environments. *Wea. Forecasting*, **21**, 595–612.

¹Students advised by Prof. Parker are underlined in the publications list

- Bryan, G. H., J. C. Knievel, and M. D. Parker, 2006: A multi-model assessment of RKW Theory's relevance to squall line characteristics. *Mon. Wea. Rev.*, **134**, 2772–2792.
- Parker, M. D., 2007: Simulated convective lines with parallel stratiform precipitation, I: An archetype for convection in along-line shear. *J. Atmos. Sci.*, **64**, 267–288.
- Parker, M. D., 2007: Simulated convective lines with parallel stratiform precipitation, II: Governing dynamics and associated sensitivities. *J. Atmos. Sci.*, **64**, 289–313.
- Storm, B. A., M. D. Parker, and D. P. Jorgensen, 2007: A linear MCS with leading stratiform precipitation from BAMEX. *Mon. Wea. Rev.*, **135**, 1769–1785.
- Parker, M. D., and D. A. Ahijevych, in press: Convective episodes in the east-central United States. *Mon. Wea. Rev.*

PUBLICATIONS IN PROGRESS

- Parker, M. D., 2007: Response of simulated squall lines to low-level cooling. *J. Atmos. Sci.*, submitted.
- Baranowski, B. C., B. A. Storm, and M. D. Parker, 2007: Trapped gravity waves in the leading anvil of a mesoscale convective system from BAMEX. *Mon. Wea. Rev.*, to be submitted May–June 2007.
- French, A.J., and M. D. Parker, 2007: Multiple modes of convection in a moderate-to-high shear environment. *Wea. Forecasting*, to be submitted June–July 2007.
- Billings, J.M., and M. D. Parker, 2007: Evolution and maintenance of the 22–23 June 2003 nocturnal convection during BAMEX. *Wea. Forecasting*, to be submitted July–August 2007.

NON-REFEREED JOURNAL PUBLICATIONS

- Parker, M. D., 2002: Linear convective systems. Nowcast conference notebook, *Bull. Amer. Meteor. Soc.*, **83**, 1125–1126.
- Parker, M. D., 2003: Why is the Park Range Colorado's snowfall capital? *Colorado Climate*, Winter 2001–2002 edition (Vol. 3, No. 1, publ. in 2003), 1–3.
- Wesely, J., and M. Parker, 2003: Adiabatic lapse rates in tornadic environments. Nowcast chapter channel, *Bull. Amer. Meteor. Soc.*, **84**, 882.
- Parker, M. D., 2004: Chasing and observing storms in the High Plains. *Colorado Climate*, Summer 2002 edition (Vol. 3, No. 3, publ. in 2004), 11–13.

CONFERENCE PREPRINT PUBLICATIONS (EXTENDED)

- Johnson, R. H., P. E. Ciesielski, J. C. Knievel, and M. D. Parker, 1999: Preliminary results from the South China Sea Monsoon Experiment sounding network. *23rd Conference on Hurricanes and Tropical Meteorology*, 10–15 January 1999, Dallas, TX, 969–972.
- Parker, M. D., and R. H. Johnson, 1999: On the organization of midlatitude mesoscale convective systems. *Eighth Conference on Mesoscale Processes*, 28 June–1 July 1999, Boulder, CO, 8–13.
- Parker, M. D., R. H. Johnson, and S. A. Rutledge, 2000: Cloud-to-ground lightning in linear MCS archetypes without trailing stratiform precipitation. *20th Conference on Severe Local Storms*, 11–15 September 2000, Orlando, FL, 158–161.
- Johnson, R. H., and M. D. Parker, 2001: Mesoscale convective systems and floods: A review. *Precipitation Extremes: Prediction, Impacts, and Responses*, 14–18 January 2001, Albuquerque, NM, 102–106.
- Invited paper

- Parker, M. D., and R. H. Johnson, 2001: Simple numerical simulations of convective lines with leading stratiform precipitation. *Ninth Conference on Mesoscale Processes*, 30 July–2 August 2001, Fort Lauderdale, FL, 283–287.
- Parker, M. D., 2001: Simulated gravity waves produced by MCS-like heating profiles: MCS geometry and its effects on the environment. *Ninth Conference on Mesoscale Processes*, 30 July–2 August 2001, Fort Lauderdale, FL, 514–518.
- Parker, M. D., 2002: Dynamics of convective lines with leading precipitation. *21st Conference on Severe Local Storms*, 12–16 August 2002, San Antonio, TX, 5–8.
- Parker, M. D., and J. C. Knievel, 2003: Are there mesoscale, convective “weather holes”? *Tenth Conference on Mesoscale Processes*, 23–27 June 2003, Portland, OR.
- Parker, M. D., and J. C. Knievel, 2004: Are there weather holes? An objective analysis. *20th Conference on Weather Analysis and Forecasting/16th Conference on Numerical Weather Prediction*, 12–15 January 2004, Seattle, WA.
- Bryan, G. H., J. C. Knievel, and M. D. Parker, 2004: An evaluation of “RKW Theory” using a model intercomparison. *22nd Conference on Severe Local Storms*, 4–8 October 2004, Hyannis, MA.
- Halligan, E. A., and M. D. Parker, 2004: 22 June 2003 BAMEX observations of a convective line with parallel precipitation. *22nd Conference on Severe Local Storms*, 4–8 October 2004, Hyannis, MA.
- Kuchera, E. L., and M. D. Parker, 2004: Using RUC-2 analysis parameters to identify severe convective wind environments. *22nd Conference on Severe Local Storms*, 4–8 October 2004, Hyannis, MA.
- Parker, M. D., 2004: Simulated convective lines with parallel precipitation. *22nd Conference on Severe Local Storms*, 4–8 October 2004, Hyannis, MA.
- Storm, B. A., and M. D. Parker, 2004: Investigation of the 31 May 2003 MCS with leading stratiform precipitation from BAMEX. *22nd Conference on Severe Local Storms*, 4–8 October 2004, Hyannis, MA.
- Parker, M. D., 2005: Convective evolution in along-line shear. *11th Conference on Mesoscale Processes*, 24–28 October 2005, Albuquerque, NM.
- Parker, M. D., 2006: Adiabatic lapse rates in tornadic environments. *Symposium on the Challenges of Severe Convective Storms*, 29 January–2 February 2006, Atlanta, GA.
- Billings, J. M., and M. D. Parker, 2006: Evolution and maintenance of the 22-23 June 2003 nocturnal convection during BAMEX. *23rd Conference on Severe Local Storms*, 6–10 November 2006, St. Louis, MO.
- French, A. J., and M. D. Parker, 2006: Multiple modes of convection in moderate-to-high shear environments. *23rd Conference on Severe Local Storms*, 6–10 November 2006, St. Louis, MO.
- Parker, M. D., 2006: Idealized simulations of nocturnal severe wind-producing convective systems. *23rd Conference on Severe Local Storms*, 6–10 November 2006, St. Louis, MO.
- Baranowski, B.C., M.D. Parker, and B.A. Storm, submitted: Gravity waves trapped under the leading anvil of an MCS during BAMEX. *12th Conference on Mesoscale Processes*, 6-9 August 2007, Waterville Valley, NH.
- Parker, M.D., submitted: Response of simulated squall lines to low-level cooling. *12th Conference on Mesoscale Processes*, 6-9 August 2007, Waterville Valley, NH.
- Parker, M.D. and D.A. Ahijevych, submitted: Convective episodes in the east-central United States. *12th Conference on Mesoscale Processes*, 6-9 August 2007, Waterville Valley, NH.

CONFERENCE ABSTRACTS (SHORT/INFORMAL)

- Parker, M. D., 2003: Is Lincoln a “weather hole”? Is Grand Island a “weather hot spot”? *123rd Annual Meeting*, Nebraska Academy of Sciences, 25 April 2003, Lincoln, NE.
- Ratcliffe, I. C., G. M. Henebry, and M. D. Parker, 2004: Hailstreak identification and persistence using MODIS data: A case study of events in the northern Great Plains, July 2003. *2004 Annual Conference*, American Society for Photogrammetry & Remote Sensing, 23–28 May 2004, Denver, CO.
- Ratcliffe, I. C., G. M. Henebry, and M. D. Parker, 2004: Hailstreak identification and persistence using MODIS data: A case study of events in the northern Great Plains, July 2003. *2004 AmericaView Conference*, U.S. Geological Survey, 20–22 September 2004, Sioux Falls, SD.
- Halligan, E. A., and M. D. Parker, 2005: Investigation of the BAMEX IOP 10 MCS with parallel stratiform precipitation. *Second Workshop on the Bow Echo and MCV Experiment (BAMEX)*, 11–12 April 2005, Fairview Heights, IL.
- Storm, B. A., and M. D. Parker, 2005: Investigation of the BAMEX IOP 3 MCS with leading stratiform precipitation. *Second Workshop on the Bow Echo and MCV Experiment (BAMEX)*, 11–12 April 2005, Fairview Heights, IL.
- Houston, A. L., and M. D. Parker, 2006: Precipitation-independent supercell tornadogenesis. *23rd Conference on Severe Local Storms*, 6–10 November 2006, St. Louis, MO.

OTHER SCIENTIFIC PUBLICATIONS

- Parker, M. D., 1999: May 1996 and May 1997 linear mesoscale convective systems of the Central Plains: synoptic meteorology and a reflectivity-based taxonomy. Atmospheric Science Paper No. 675, Colorado State University, 185 pp.
- Parker, M. D., 2002: Quasi–two–dimensional convective lines with leading precipitation: Dynamics inferred from idealized numerical simulations. Atmospheric Science Paper No. 726, Colorado State University, 168 pp.

FUNDED PROPOSALS

- | | |
|-----------|---|
| 2004–2009 | Parker, M. D.: <i>CAREER: Integrated Studies of Recurring, Non-Traditional Mesoscale Convective Systems</i> . Faculty Early Career Development (CAREER) award, National Science Foundation, Mesoscale Dynamic Meteorology Program. \$598,444. |
| 2006–2007 | Parker, M.D.: <i>Tornadoes in Landfalling Hurricanes: A Pilot Study</i> . Faculty Research and Professional Development Fund, North Carolina State University. \$4,000. |
| 2006–2009 | Lackmann, G. M., and M. D. Parker: <i>Improving the Representation of Organized Convection in Numerical Weather Prediction (NWP) Models</i> . National Science Foundation, Physical and Dynamic Meteorology Program. \$323,000. |
| 2007–2010 | Lackmann, G. M., L. Xie, and M. D. Parker: <i>Improving Understanding and Prediction of Warm Season Precipitation Systems in the Southeastern and Mid-Atlantic Regions</i> , National Weather Service/NOAA, CSTAR ² program. <i>Current status</i> : award approved and forwarded to NOAA grants office by program manager. \$375,000. |

²CSTAR=Collaborative Science, Technology, and Applied Research program

CONFERENCE PRESENTATIONS

- Jun. 1999 *Eighth Conference on Mesoscale Processes*, AMS,³ Boulder, CO.
 · Awarded best student presentation.
- Sep. 2000 *20th Conference on Severe Local Storms*, AMS, Orlando, FL.
- Jan. 2001 *Precipitation Extremes: Prediction, Impacts, and Responses*, AMS, Albuquerque, NM.
 · Invited presentation.
- Aug. 2001 *Ninth Conference on Mesoscale Processes*, AMS, Fort Lauderdale, FL.
- Aug. 2001 Poster, *Ninth Conference on Mesoscale Processes*, AMS, Fort Lauderdale, FL.
- Aug. 2002 *21st Conference on Severe Local Storms*, AMS, San Antonio, TX.
- Apr. 2003 *123rd Annual Meeting*, Nebraska Academy of Sciences, Lincoln, NE.
- Jun. 2003 Poster, *Tenth Conference on Mesoscale Processes*, AMS, Portland, OR.
- Jan. 2004 Poster, *20th Conference on Weather Analysis and Forecasting*, AMS, Seattle, WA.
- Oct. 2004 *22nd Conference on Severe Local Storms*, AMS, Hyannis, MA.
- Apr. 2005 *Second Workshop on the Bow Echo and MCV Experiment*, Fairview Heights, IL.
- Oct. 2005 Poster, *11th Conference on Mesoscale Processes*, AMS, Albuquerque, NM.
- Feb. 2006 Poster, *Symposium on the Challenges of Severe Convective Storms*, AMS, Atlanta, GA.
- Nov. 2006 *23rd Conference on Severe Local Storms*, AMS, St. Louis, MO.

OTHER INVITED PRESENTATIONS

- Feb. 2002 Mesoscale and Microscale Meteorology Division, NCAR.⁴
- Apr. 2002 Institute for the Study of Planet Earth, The University of Arizona.
- Apr. 2002 Department of Geosciences, University of Nebraska–Lincoln.
- May 2002 Department of Earth and Atmospheric Sciences, Saint Louis University.
- May 2002 Herbert Riehl Memorial Seminar, Dept. of Atmospheric Science, Colorado State Univ.
- Mar. 2003 Omaha–Offutt Chapter of the AMS.
- Aug. 2003 High Plains Chapter of the AMS.
- Oct. 2003 T. Mylan Stout lecture series, University of Nebraska–Lincoln.
- Oct. 2003 Department of Atmospheric Sciences, University of California, Los Angeles.
- Mar. 2004 Department of Meteorology, The Pennsylvania State University.
- Nov. 2004 Department of Marine, Earth, and Atmospheric Sciences, North Carolina State Univ.
- Mar. 2005 University of Nebraska–Lincoln Student Chapter of the AMS.
- Sep. 2005 Central North Carolina Chapter of the AMS.
- Oct. 2005 CSTAR Regional Workshop, National Weather Service–Raleigh, NC.
- Jun. 2006 Workshop on Warm Season Precipitation, NCAR.
- Aug. 2006 CSTAR conference call presentation, National Weather Service–Raleigh, NC.
- Mar. 2007 Dept. of Geological and Atmospheric Sciences, Iowa State Univ. (talk + short course)
- Jun. 2007 COMET⁵ Mesoscale Analysis and Prediction (COMAP) course, NCAR.

³AMS=American Meteorological Society

⁴NCAR=National Center for Atmospheric Research

⁵COMET=Cooperative Program for Operational Meteorology, Education and Training

SELECTED AWARDS AND HONORS

- 2004 National Science Foundation Faculty Early Career Development (CAREER) Award
 2002 Herbert Riehl Memorial Award (best published manuscript by a graduate student),
Department of Atmospheric Science, Colorado State University
 1999 Best student presentation, *Eighth Conference on Mesoscale Processes*, AMS, Boulder, CO
 1996–1997 AMS Graduate Fellowship
 1995 Selected participant, *Summer Institute on Atmospheric and Hydrospheric Sciences*,
NASA Goddard Space Flight Center

PROFESSIONAL COMMITTEES AND EDITORIAL BOARDS

- 2007– Associate editor, *Weather and Forecasting*, AMS
 2006–09 Co-chair, Program Committee for the *24th Conference on Severe Local Storms*, AMS
 (to be held in February 2009)
 2004–07 AMS *Committee on Severe Local Storms*
 2004–06 Associate editor, *Monthly Weather Review*, AMS
 2004–06 Joint Program Committee for *Symposium on the Challenges of Severe Convective Storms*
 and *23rd Conference on Severe Local Storms*, AMS

OTHER PROFESSIONAL ACTIVITIES

- 2007 Invited instructor, COMET Mesoscale Analysis and Prediction (COMAP) course, NCAR
 2006 Session chair, *23rd Conference on Severe Local Storms*, AMS
 2006 Review of NWS–Raleigh procedures for MCS forecasting and warning
 2006 Session chair, *Symposium on the Challenges of Severe Convective Storms*, AMS
 2005–06 Reviewer of two chapters from textbook: *Mesoscale Dynamics*, by Y.–L. Lin
 2005 Part–time visiting scientist, *Hazardous Weather Testbed*, Storm Prediction Center and
 National Severe Storms Laboratory
 2005 Scholarship review panelist, National Weather Association, Central Iowa chapter
 2004 Session chair, *22nd Conference on Severe Local Storms*, AMS
 2001– Reviewer of proposals and journal articles (6–8 per year):
 National Science Foundation: Atmospheric Sciences (ATM)
Ann. Geophysicae, *Bull. Amer. Meteor. Soc.*, *Int. J. Climatol.*, *J. Appl. Meteor. Climatol.*,
J. Atmos. Sci., *J. Geophys. Res.*, *J. Hydrometeorol.*, *Meteor. Atmos. Phys.*, *Mon. Wea. Rev.*,
Wea. Forecasting
 2000 *Severe Thunderstorm Electrification and Precipitation Study (STEPS)*: Led a mobile
 mesonet probe and acted as the mobile mesonet field coordinator for two days.
 1999 *Complex Layered Cloud Experiment (CLEX-5)*: Provided timely operational forecasts to
 support aircraft measurements of mixed–phase clouds
 1998 *South China Sea Monsoon Experiment (SCSMEX)*: Worked at Hong Kong University
 of Science and Technology to augment the quality of soundings during IOP

PROFESSIONAL SOCIETIES

2004– Sigma Xi, The Scientific Research Society
 1997– American Geophysical Union
 1995– American Meteorological Society

TEACHING EXPERIENCE

Dept. of Marine, Earth, & Atmospheric Sciences, North Carolina State University

2007, spring Mesoscale weather analysis and forecasting (MEA 444), instructor
 2006, fall Mesoscale numerical modeling (MEA 712), instructor
 2006, fall Atmospheric convection (MEA 714), co-instructor
 2006, spring Mesoscale weather analysis and forecasting (MEA 444), instructor

Dept. of Geosciences, University of Nebraska–Lincoln

2005, spring Special topics: Mesoscale meteorology (METR 498), instructor
 cross-listed with Mesoscale numerical modeling (METR 898), instructor
 2005, spring Dynamic meteorology II (METR 458/858), instructor
 2004, fall Dynamic meteorology I (METR 456/856), instructor
 2004, fall Foundations in geosciences (GEOS 996), unit co-instructor
 “Convective processes and consequences of intense precipitation”
 2004, spring Graduate seminar: Dynamics of clouds (METR 953), instructor
 2004, spring Dynamic meteorology II (METR 458/858), instructor
 2003, fall Dynamic meteorology I (METR 456/856), instructor
 2003, spring Dynamic meteorology II (METR 458/858), instructor
 2002, fall Dynamic meteorology I (METR 456/856), instructor
 2002–2005 Special problems in geosciences (GEOS 898), independent study supervisor
 “Simulating convective systems with the WRF model”
 “Small scale study on the atmospheric boundary layer”
 “Case study: The flash flooding event of July 2–3, 1999 in Waterloo, Iowa”
 “Investigation of the June 2003 South Dakota tornado outbreak”

Dept. of Atmospheric Science, Colorado State University

2001, fall Introduction to weather and climate (AT 351), laboratory instructor
 1999, spring Daily weather lab II (AT 541), teaching assistant

Dept. of Geography and Meteorology, Valparaiso University

1995–1996 Meteorology (MET 103), laboratory assistant

GRADUATE RESEARCH ASSISTANTS ADVISED

	Dept. of Marine, Earth, & Atmospheric Sciences, North Carolina State University
2006–	Ben Baranowski (Ph.D.)
2006–	Billy Booth (M.S.)
2005–	Jerilyn Billings (M.S.)
2005–	Adam French (M.S.)
	Dept. of Geosciences, University of Nebraska–Lincoln
2003–2005	Eve Halligan (M.S.) ⁶
2003–2005	Jeramie Lippman (M.S.) ⁶
2003–2005	Brandon Storm (M.S.)
2002–2004	Evan Kuchera (M.S.)

UNDERGRADUATE RESEARCH ASSISTANTS ADVISED

	Dept. of Marine, Earth, & Atmospheric Sciences, North Carolina State University
2006–2007	Adam Baker

UNDERGRADUATE HONORS THESIS ADVISEES

	University Honors Program, University of Nebraska–Lincoln
2004–2005	Andrew Hulme (co–advisor)

UNIVERSITY SERVICE

	North Carolina State University
2006–	Atmospheric Sciences Undergraduate Program Coordinator
2006–	Social Committee chair, Department of Marine, Earth, & Atmospheric Sciences
2006–	Undergraduate Curriculum and Programs Committee, Department of Marine, Earth, & Atmospheric Sciences
2006	New Faculty Search Committee, Department of Marine, Earth, & Atmospheric Sciences
2005–2007	Faculty Co–advisor, Student Chapter of the AMS
2005	New Faculty Search Committee, Department of Marine, Earth, & Atmospheric Sciences
	University of Nebraska–Lincoln
2005	Panelist, “NSF CAREER Award Roundtable”, Office of Proposal Development
2004–2005	New Faculty Search Committee, Department of Geosciences
2004–2005	Committee on Unified Meteorology/Climatology Program, Department of Geosciences
2004	Panelist, “The Job Talk”, Career Development Series, Office of Graduate Studies
2003–2005	Scholarship and Awards Committee, Department of Geosciences
2003–2005	Grading Appeals Committee, College of Arts and Sciences

⁶Student continued at UNL following Prof. Parker’s departure in 2005.

OTHER RELATED COMMUNITY SERVICE AND OUTREACH

- 2007 Seminar on academic careers in the atmospheric sciences, Iowa State University
- 2005–2009 Coordinator of Meteorological Education and Secondary–school Outreach (MESO) program (funded by NSF)
- Regional distribution of public service newspaper articles:
 - Education key to hazardous weather safety, UNL researcher says*, by M. Parker and K. Bartling, 05/2005
 - Be prepared for severe weather*, by K. Klute and M. Parker, 03/2005
 - Regional public service radio broadcast interviews:
 - Interview on flash flood risks and safety, Metro Networks, Omaha, NE, 06/2005
 - Created and staffed informational outreach booth, Central Plains Severe Weather Symposium, Lincoln, Nebraska, 03/2005
 - Supervised and assisted two groups of three undergraduate students in creating web–based educational meteorology modules, summers 2005 and 2006:
<http://storms.meas.ncsu.edu>
- 2005 One hour interview on “DTN On Air” (national agricultural meteorology audio broadcast), to discuss mesoscale convective systems and respond to listeners’ phone calls
- 2005 Panelist, “Weather Career Night”, Omaha–Offutt Chapter of the AMS
- 2003 Appearance on KOLN (Lincoln, Nebraska CBS television affiliate), to discuss severe weather outbreak
- 2003 Panelist, “Career Opportunities in the Atmospheric Sciences”, Omaha–Offutt Chapter of the AMS
- 2000 Co–instructor, “Introduction to the Internet”, Community Learning Centers, Fort Collins, Colorado