

Publications (2001 – 2004)

The following comprehensive list of peer-reviewed and non-refereed publications is for the period from 2001 to 2004. CIMMS Scientists, Fellows, Principal Investigators, and Graduate Students are denoted by underlined text. Annual totals for peer-reviewed publications are 34 (2001), 42 (2002), 69 (2003), and 64 (2004, through November), respectively.

Peer-Reviewed Publications

Adler, R. F., C. Kidd, G. Petty, M. Morrissey, and H. M. Goodman, 2001: Intercomparison of global precipitation products: The Third Precipitation Intercomparison Project (PIP-3). *Bull. Amer. Meteor. Soc.*, **82**, 1377-1396.

Baldwin, M. E., and S. Lakshmivarahan, 2002: Rainfall classification using histogram analysis: An example of data mining in meteorology. *Intelligent Engineering Systems Through Artificial Neural Networks*, **12**, C. H. Dagli, A. L. Buczak, J. Ghosh, M. J. Embrechts, O. Ersoy, S. W. Kerchel, Eds., ASME Press, 429-434.

Baldwin, M. E., and S. Lakshmivarahan, 2003: Spatial characterization of rainfall patterns for use in a classification system. *Intelligent Engineering Systems Through Artificial Neural Networks*, Vol. 13, C.H. Dagli, A.L. Buczak, J.Ghosh, M.J. Embrechts, O. Ersoy, Eds., ASME Press, 683-688.

Baldwin, M. E., J. S. Kain, and M. P. Kay, 2002: Properties of the convection scheme in NCEP's Eta Model that affect forecast sounding interpretation. *Wea. Forecasting.*, **17**, 1063-1079.

Baldwin, M. E., S. Lakshmivarahan, and J. S. Kain, 2004: Development of an automated classification procedure for rainfall systems. *Mon. Wea. Rev.*, accepted.

Brandes, E. A., A. V. Ryzhkov, and D. S. Zrnica, 2001: An evaluation of radar rainfall estimates from specific differential phase. *J. Atmos. and Oceanic Technol.*, **18**, 363–375.

Brewster, K. A., 2003: Phase-correcting data assimilation and application to storm scale numerical weather prediction. Part I: Method description and simulation testing. *Mon. Wea. Rev.*, **131**, 480-492.

Brewster, K. A., 2003: Phase-correcting data assimilation and application to storm scale numerical weather prediction. Part II: Application to a severe storm outbreak. *Mon. Wea. Rev.*, **131**, 493-507.

Brock, F. V., and S. J. Richardson, 2001: *Meteorological Measurement Systems*. Oxford University Press, 288 pp.

Brooks, H. E., 2004: On the relationship of tornado path length and width to intensity. *Wea. Forecasting*, **19**, 310-319.

- Brooks, H. E., 2004: Tornado warning performance in the past and future: A perspective from signal detection theory. *Bull. Amer. Meteor. Soc.*, **85**, 837-843.
- Brooks, H. E., and C. A. Doswell III, 2001: Some aspects of the international climatology of tornadoes by damage. *Atmos. Res.*, **56**, 191-201.
- Brooks, H. E., and C. A. Doswell, III, 2001: Normalized damage from major tornadoes in the United States: 1890-1999. *Wea. Forecasting*, **16**, 168-176.
- Brooks, H. E., and C. A. Doswell III, 2002: Deaths in the 3 May 1999 Oklahoma City tornadoes from a historical perspective. *Wea. Forecasting*, **17**, 354-361.
- Brooks, H. E., C. A. Doswell III, and M. Kay, 2003: Climatological estimates of local daily tornado probability for the United States. *Wea. Forecasting*, **18**, 626-640.
- Brooks, H. E., J. W. Lee, and J. P. Craven, 2003: The spatial distribution of severe thunderstorm and tornado environments from global reanalysis data. *Atmos. Res.*, **67-68**, 73-94.
- Brooks, H., C. Doswell III, D. Dowell, R. Holle, B. Johns, D. Jorgensen, D. Schultz, D. Stensrud, S. Weiss, L. Wicker, and D. Zaras, 2003: Severe thunderstorms and tornadoes. Chapter 29, *Handbook of Weather, Climate, and Water: Dynamics, Climate, Physical Meteorology, Weather Systems, and Measurements* (B. R. Colman and T. D. Potter, Eds.), John Wiley and Sons, 575-619.
- Brown, R. A., B. A. Flickinger, E. Forren, D. M. Schultz, D. Sirmans, P. L. Spencer, V. T. Wood, and C. L. Ziegler, 2004: Improved detection of severe storms using experimental fine-resolution WSR-88D measurements. *Wea. Forecasting*, accepted.
- Burgess, D. W., M. A. Magsig, J. Wurman, D. Dowell, and Y. Richardson, 2002: Radar observations of the May 3, 1999 Oklahoma City tornado. *Wea. Forecasting*, **17**, 456-471.
- Coniglio, M. C., and D. J. Stensrud, 2001: Simulation of a progressive derecho using composite initial conditions. *Mon. Wea. Rev.*, **129**, 1593-1616.
- Coniglio, M. C., and D. J. Stensrud, 2004: On the climatology of derechos. *Wea. Forecasting*, **19**, 595-605.
- Coniglio, M. C., D. J. Stensrud, and M. B. Richman, 2004: An observational study of derecho-producing convective systems. *Wea. Forecasting*, **19**, 320-327.
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- Deng, A., N. L. Seaman, and J. S. Kain, 2003: A shallow-convection parameterization for mesoscale models. Part I: Submodel description and preliminary applications. *J. Atmos. Sci.*, **60**, 34–56.
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- Doswell, C. A. III, 2003: Comments on “Extraction of geopotential height and temperature structure from profiler and rawinsonde winds.” *Mon. Wea. Rev.*, **131**, 1502-1503.
- Doswell, C.A. III, 2003: Societal impacts of severe thunderstorms and tornadoes: Lessons learned and implications for Europe. *Atmos Res.*, **58**, 135-152.
- Doswell III, C. A., and H. E. Brooks, 2002: Lessons learned from the damage produced by the tornadoes of 3 May 1999. *Wea. Forecasting*, **17**, 611-618.
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