

**Volume 140, Issue 1 (January 2012)**

[View Abstracts](#)    [Add to Favorites](#)    [Email](#)    [Download to Citation Manager](#)    [Track Citations](#)

Select All

 Denotes Open Access Content

**ARTICLES**

- 3  **Tornado Maintenance Investigated with High-Resolution Dual-Doppler and EnKF Analysis**  
*James Marquis, Yvette Richardson, Paul Markowski, David Dowell, Joshua Wurman* 3–27  
[Abstract](#) . [Full Text](#) . [PDF \(3229 KB\)](#)
- 28  **The Synoptic Climatology of Cool-Season Rainfall in the Central Wheatbelt of Western Australia**  
*Michael J. Pook, James S. Risbey, Peter C. McIntosh* 28–43  
[Abstract](#) . [Full Text](#) . [PDF \(4608 KB\)](#)
- 44  **U.S. Landfalling and North Atlantic Hurricanes: Statistical Modeling of Their Frequencies and Ratios**  
*Gabriele Villarini, Gabriel A. Vecchi, James A. Smith* 44–65  
[Abstract](#) . [Full Text](#) . [PDF \(2201 KB\)](#)
- 66  **Application of the Marsupial Paradigm to Tropical Cyclone Formation from Northwestward-Propagating Disturbances**  
*Zhuo Wang, Timothy J. Dunkerton, Michael T. Montgomery* 66–76  
[Abstract](#) . [Full Text](#) . [PDF \(2274 KB\)](#)
- 77  **Multiscale Analysis of Tropical Cyclone Kinematic Structure from Airborne Doppler Radar Composites**  
*Robert Rogers, Sylvie Lorsolo, Paul Reasor, John Gamache, Frank Marks* 77–99  
[Abstract](#) . [Full Text](#) . [PDF \(6194 KB\)](#)
- 100  **Numerical Study on the Formation of Typhoon Ketsana (2003). Part I: Roles of the Mesoscale Convective Systems**  
*Xinyan Lu, Kevin K. W. Cheung, Yihong Duan* 100–120  
[Abstract](#) . [Full Text](#) . [PDF \(5987 KB\)](#)
- 121  **Surface Track Discontinuity of Tropical Cyclones Crossing Taiwan: A Statistical Study**  
*L. Peng, S.-T. Wang, S.-L. Shieh, M.-D. Cheng, T.-C. Yeh* 121–139  
[Abstract](#) . [Full Text](#) . [PDF \(1318 KB\)](#)
- 140  **Possible Linkage between the Monsoon Trough Variability and the Tropical Cyclone Activity over the Western North Pacific**  
*Liang Wu, Zhiping Wen, Ronghui Huang, Renguang Wu* 140–150  
[Abstract](#) . [Full Text](#) . [PDF \(1730 KB\)](#)
- 151  **Improved Analyses and Forecasts of Hurricane Ernesto's Genesis Using Radio Occultation Data in an Ensemble Filter Assimilation System**  
*Hui Liu, Jeffrey Anderson, Ying-Hwa Kuo* 151–166  
[Abstract](#) . [Full Text](#) . [PDF \(2777 KB\)](#)
- 167  **The Impact of Airmass Boundaries on the Propagation of Deep Convection: A Modeling-Based Study in a High-CAPE, Low-Shear Environment**  
*Adam L. Houston, Robert B. Wilhelmson* 167–183  
[Abstract](#) . [Full Text](#) . [PDF \(3579 KB\)](#)
- 184  **Subkilometer Simulation of a Torrential-Rain-Producing Mesoscale Convective System in East China. Part I: Model Verification and Convective Organization**  
*Man Zhang, Da-Lin Zhang* 184–201  
[Abstract](#) . [Full Text](#) . [PDF \(5992 KB\)](#)
- 202  **Sensitivity of a Simulated Squall Line to Horizontal Resolution and Parameterization of Microphysics**  
*202–*

	<i>George H. Bryan, Hugh Morrison</i> <a href="#">Abstract</a> . <a href="#">Full Text</a> . <a href="#">PDF (3100 KB)</a>	225
226	 <b>Mesoscale Impacts of Explicit Numerical Diffusion in a Convection-Permitting Model</b> <i>Wolfgang Langhans, Juerg Schmidli, Christoph Schär</i> <a href="#">Abstract</a> . <a href="#">Full Text</a> . <a href="#">PDF (4947 KB)</a>	226– 244
245	 <b>Assessment of the Impact of Observations on Analyses Derived from Observing System Experiments</b> <i>Cristina Lupu, Pierre Gauthier, Stéphane Laroche</i> <a href="#">Abstract</a> . <a href="#">Full Text</a> . <a href="#">PDF (1921 KB)</a>	245– 257
258	 <b>On the Equivalence between Radiance and Retrieval Assimilation</b> <i>Stefano Migliorini</i> <a href="#">Abstract</a> . <a href="#">Full Text</a> . <a href="#">PDF (508 KB)</a>	258– 265
266	 <b>Implementation and Evaluation of Dynamic Subfilter-Scale Stress Models for Large-Eddy Simulation Using WRF</b> <i>Gokhan Kirkil, Jeff Mirocha, Elie Bou-Zeid, Fotini Katopodes Chow, Branko Kosović</i> <a href="#">Abstract</a> . <a href="#">Full Text</a> . <a href="#">PDF (3161 KB)</a>	266– 284
285	 <b>PDF Parameterization of Boundary Layer Clouds in Models with Horizontal Grid Spacings from 2 to 16 km</b> <i>Vincent E. Larson, David P. Schanen, Minghuai Wang, Mikhail Ovchinnikov, Steven Ghan</i> <a href="#">Abstract</a> . <a href="#">Full Text</a> . <a href="#">PDF (2066 KB)</a>	285– 306
307	 <b>An Explicit Time-Difference Scheme with an Adams–Bashforth Predictor and a Trapezoidal Corrector</b> <i>Sajal K. Kar</i> <a href="#">Abstract</a> . <a href="#">Full Text</a> . <a href="#">PDF (1746 KB)</a>	307– 322