

SELECTED PEER REVIEWED PUBLICATIONS SINCE 2008

- Bao, J.-W.**, S. A. Michelson, E. D. Grell, 2015: Pathways to the production of precipitating hydrometeors and tropical cyclone development. *Mon. Wea. Rev.*, to appear.
- Bleck, R., **J.-W. Bao**, S. G. Benjamin, and coauthors, 2015: A vertically flow-following, icosahedral-grid model for medium-range and seasonal prediction. Part 1: Model description. *Mon. Wea. Rev.*, doi: <http://dx.doi.org/10.1175/MWR-D-14-00300.1>.
- Lynn, B. H., A. P. Khain, **J.-W. Bao**, and coauthors, 2015: The sensitivity of Hurricane Irene to aerosols and ocean coupling: simulations with WRF spectral bin microphysics. *J. of Atmos. Sci.*, doi: <http://dx.doi.org/10.1175/JAS-D-14-0150.1>.
- Bao, J.-W.**, S. G. Gopalakrishnan, S. A. Michelson, and coauthors, 2012: Impact of physics representations in the HWRF model on simulated hurricane structure and wind-pressure relationships. *Mon. Wea. Rev.*, **140**, 3278–3299.
- Bao, J.-W.**, C. W. Fairall, S. A. Michelson, L. Bianco, 2011: Parameterizations of Sea-Spray Impact on the Air-Sea Momentum and Heat Fluxes. *Mon. Wea. Rev.*, **139**, 3781-3797.
- Bianco, L., **J.-W. Bao**, C. W. Fairall, and S. A. Michelson, 2011: Impact of sea spray on the surface boundary. *Boundar.-Layer Meteor.*, **140**, 361-381.
- Rögnvaldsson, Ó., **J.-W. Bao**, H. Ágústsson, H., and H. Ólafsson, 2011: Downslope windstorm in Iceland – WRF/MM5 model comparison. *Atmos. Chem. Phys.*, **11**, 103-120, doi:10.5194/acp-11-103-2011.
- Gopalakrishnan, S. G., F. Marks, X. Zhang, **J.-W. Bao**, K.-S. Yeh, and R. Atlas, 2011: The Experimental HWRF System: A Study on the Influence of Horizontal Resolution on the Structure and Intensity Changes in Tropical Cyclones Using an Idealized Framework. *Mon. Wea. Rev.*, **139**, 1762–1784.
- Chen, F., S. Miao, M. Tewari, **J.-W. Bao**, and H. Kusaka, 2011: A numerical study of interactions between surface forcing and sea breeze circulations and their effects on stagnation in the greater Houston area. *J. Geophys. Res.*, **116**, D12105, doi:10.1029/2010JD015533.
- Michelson, S.A., I. V. Djalalova and **J.-W. Bao**, 2010: Comparisons of Observed and Simulated Atmospheric Boundary Layer Diurnal Cycle in California’s Central Valley for the Summer of 2000. *J. of Appl. Meteor. Climate.* **49**, 2230-2245.
- Jankov I., **J.-W. Bao**, P. J. Neiman, P. J. Schultz, H. Yuan, et al., 2009: Evaluation and Comparison of Microphysical Algorithms in WRF-ARW Model Simulations of Atmospheric River Events Affecting the California Coast. *J. of Hydrometeor.*, **10**, 847-870.
- Bao, J.-W.**, S. A. Michelson, P. O. G. Persson, I. Djalalova, and J. M. Wilczak, 2008: Observed and simulated low-level winds in an episode case of the Central California Ozone Study. *J. of Appl. Meteor. Climate*, **47**, 2372–2394.
- Michelson, S. A., and **J.-W. Bao**, 2008: Sensitivity of the WRF Model Simulated Low-Level Winds in California’s Central Valley to Uncertainties in the Large-Scale Forcing and Soil Initialization. *J. of Appl. Meteor. Climate.*, **47**, 3131–3149