HFIP Publications 2012

Journals and Periodicals


**Publications in Print**


**Publications in Review**

Aberson, S. D.,: Climatological Forecasts of Tropical Cyclone Phase. *Weather and Forecasting*


Li, X., W. Zheng, X. Yang, J. A. Zhang, W. Pichel, and Z. Li, : Coexistence of Atmospheric Gravity Waves and Boundary-layer Rolls Observed by SAR. *Journal of the Atmospheric Sciences*


Nicholls, M. E., and M. T. Montgomery, : An Examination of Two Pathways to Tropical Cyclogenesis Occurring in Idealized Simulations With a Cloud-resolving Numerical Model. *Atmospheric Chemistry and Physics.*


Reasor, P., and M. Montgomery, : Does the Tropical Cyclone's Response to Vertical Wind Shear Depend on the Near-core Tangential Wind Structure? *Journal of the Atmospheric Sciences*


Zhang, B., W. Perrie, J. A. Zhang, E. W. Uhlhorn, and Y. He, : High-resolution Vector Winds in Hurricanes from Wide Swath SAR Observations. *Journal of Atmospheric and Oceanic Technology*

Zhang, J. A., S. Gopalakrishnan, F. D. Marks, R. F. Rogers, and V. Tallapragada, : A Developmental Framework for Improving Hurricane Model Physical Parameterizations Using Aircraft Observations *Tropical Cyclone Research and Review*

Books, Chapters, Manuals, and Proceedings


Zhang, J. A., : Tropical Cyclone Multiscale Wind Features from Spaceborne Synthetic Aperture Radar. SAR Hurricane/Typhoon Research. (Chapter)


Technical Reports:


Numerical Weather Prediction Developmental Testbed Center Six Month Performance Report for NA08NWS4670046, 1 September 2011 – 28 February 2012.


WWRP/WGNE Joint Working Group on Forecast Verification Research, 2013: Verification of Tropical Cyclone Forecasts. Draft available from bgb@ucar.edu.

**Presentations**


Bender, M., 2012: 2012 Upgrades to the Operational GFDL/GFDN Hurricane Model. 66th Interdepartmental Hurricane Conference, 5-8 March, 2012, Charleston, SC.


Cione, J. J., 2012: Hurricane Intensity Change and Inner-Core SST: Warmer is Not Always Better. 30th Conference on Hurricane and Tropical Meteorology, American Meteorological Society, 16-20 April, 2012, Ponte Vedra, FL.


Hendricks, E. A., M. S. Peng, T. Li, and X. Ge, 2012: Dynamic Initialization for Tropical Cyclone Intensity Prediction. 30th Conference on Hurricanes and Tropical Meteorology, American Meteorological Society, 15-20 April 2012, Ponte Vedra Beach, FL.


Kaplan, J., 2012: Improvements to the SHIPS Rapid Intensification Index. 66th Interdepartmental Hurricane Conference, 05-08 March, 2012, Charleston, SC.


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Marchok, T., M. Morin, M. Bender, 2012: Evaluation of a GFDL Hurricane Model Ensemble Forecast System. 30th Conference on Hurricanes and Tropical Meteorology, American Meteorological Society, 16-20 April, 2012, Ponte Vedra Beach, FL.


Marks, F. and R. Ferek, 2012: Overview of WG/TCR Efforts and Promising Results. 66th Interdepartmental Hurricane Conference, 05-08 March, 2012, Charleston, SC.

Marks, F. and T. Vukicevic, 2012: Can We Hope to Improve Prediction of Tropical Cyclone Intensity. 30th Conference on Hurricane and Tropical Meteorology, American Meteorological Society, 16-20 April, 2012, Ponte Vedra, FL.


Moskaitis, J. R., J. Doyle, and R. Hodur, 2012: Diagnostic Verification of COAMPS-TC Performance for the HFIP Retrospective Forecasts. 66th Interdepartmental Hurricane Conference. 5-8 March, 2012, Charleston, SC.


Moskaitis, J., Y. Jin, and J.D. Doyle, 2012: Verification of COAMPS-TC Predictions of the Synoptic-scale Flow in the Tropics and Subtropics. 30th Conference on Hurricanes and Tropical Meteorology, 15-20 April, 2012, Ponte Vedra Beach, FL.


Reasor, P., R. F. Rogers, and S. Lorsolo, 2012: Environmental Impacts on Tropical Cyclone Structure and Intensity Diagnosed from Airborne Doppler Radar Composites. 30th Conference on Hurricane and Tropical Meteorology, American Meteorological Society, 16-20 April, 2012, Ponte Vedra, FL.


Rogers, R., 2012: NOAA’s Intensity Forecasting Experiment: Ongoing Work and 2010 Summary. 30th Conference on Hurricane and Tropical Meteorology, American Meteorological Society, 16-20 April, 2012, Ponte Vedra, FL.


Rogers, R., P. Reasor, S. Lorsolo, and J. Zhang 2012: Observations of the Inner-Core Structure of Rapidly Intensifying Tropical Cyclones. 30th Conference on Hurricane and Tropical Meteorology, American Meteorological Society, 16-20 April, 2012, Ponte Vedra, FL.


Sanabia, E, P. Black, S. Chen, and J. Cummings: Experimental Deployment of AXBTs During Operational Hurricane Reconnaissance Flights, 30th Conference on Hurricane and Tropical Meteorology, American Meteorological Society, 15-20 April, 2012, Ponte Verda Beach FL.
Sanabia E., E. Hoy, I. Park, P. Black, J. Kerling, S. Chen, and J. Cummings 2012: Preliminary Results from the AXBT Demonstration Project in Support of Hurricane Coupled Modeling Products and Improvement in Guidance to NHC Hurricane Specialists. 66th Interdepartmental Hurricane Conference. 5-8 March, 2012, Charleston SC.


Vukicevic, T., 2012: Assimilation of High-Resolution Hurricane Inner-Core Data with the HWRF Hurricane Ensemble Data Assimilation System. Atlantic Oceanographic and Meteorological Laboratory CHART Seminar, 29 February 2012, Miami, FL.


Vukicevic, T., 2012: Validation of HWRF Forecasts with Satellite Observations. 66th Interdepartmental Hurricane Conference, 05-08 March, 2012, Charleston, SC.

Vukicevic, T., A. Aksoy, S. Aberson, K. Sellwood, and F. Marks, 2012: Short-term Dynamic Forecast Bias and Its Impact on Vortex Scale Data Assimilation. 30th Conference on Hurricane and Tropical Meteorology, American Meteorological Society, 16-20 April, 2012, Ponte Vedra, FL.


Zelinsky, D. A., 2012: Simulated Satellite Imagery as a Diagnostic Tool for Regional Hurricane Models. 30th Conference on Hurricane and Tropical Meteorology, American Meteorological Society, 16-20 April, 2012, Ponte Vedra, FL. Poster


