

**Referred Publications: Submitted, appeared, nearing submission.**

Aberson., S. D., S. J. Majumdar, C. A. Reynolds, and B. Etherton, 2010: *An observing system experiment for tropical cyclone targeting techniques using the Global Forecast System. Submitted to Mon. Wea. Rev.*

Aberson, S. D., 2008: *An alternative tropical cyclone intensity forecast verification Technique. Wea. Forecast., 23,1304-1310.*

Aberson, S. D., 2010: Ten years of hurricane synoptic surveillance (1997-2006). *Mon. Wea. Rev.*, in print.

Aberson, S. D., C.-C. Wu, M. Bell, J. Halverson, C. Fogarty, J. Cione, and M. Weissmann, 2010: *Aircraft used to observe tropical cyclones. Global Perspectives on Tropical Cyclones: From Science to Mitigation. In print.*

Bao, J.-W., C. W. Fairall, S. A. Michelson, L. Bianco, 2010: *Parameterizations of sea-spray impact on the air-sea momentum and heat fluxes. Monthly Weather Review. To be submitted.*

Bianco, L., J.-W. Bao, C. W. Fairall, and S. A. Michelson, 2010: *Impact of sea spray on the surface boundary. Boundar.-Layer Meteorol.. To be submitted.*

Bell, M. M. and M. T. Montgomery, 2010: *Sheared deep vortical convection in pre-depression Hagupit during TCS08. Submitted to Geophys. Res. Lett.*

Braun, S. A., M. T. Montgomery, K. Mallen, and P. Reasor, 2010: *Simulation and interpretation of the genesis of Tropical Storm Gert (2005) as part of the NASA Tropical Cloud Systems and Processes Experiment. J. Atmos. Sci., in print.*

Bui, H. H., R. K. Smith, M. T. Montgomery, and J. Peng, 2009: *Balanced and unbalanced aspects of tropical cyclone intensification. Q. J. R. Meteorol. Soc., 135, 1715-1731.*

Conzemius, F., and M. T. Montgomery, 2010: *Mesoscale convective vortices in multi-scale idealized simulations: Dependence on background station, interdependency with moist baroclinic cyclones, and comparison with BAMEX observations. Mon. Wea. Rev., in print.*

Conzemius, R. J., and M. T. Montgomery, 2009: *Clarification on the generation of absolute and potential vorticity in mesoscale convective vortices. Atmos. Chem. Phys., 9, 7591-7605.*

Davis, C. A., W. Wang, J. Dudhia, and R. Torn: 2010: *Does Increased Horizontal Resolution Improve Hurricane Wind Forecasts? Weather and Forecasting. To be submitted.*

Davis, C., W. Wang, S. Cavallo, J. Done, J. Dudhia, J. Michalakes, G. Caldwell, T. Engel, S. Ghosh, and Ryan Torn, 2010: *High-resolution hurricane forecasts*. *Comput. Sci. Eng.*, **To be submitted**.

DeMaria, M., J.A. Knaff, R. Knabb, C. Lauer, C.R. Sampson, and R.T. DeMaria, 2009: *A new method for estimating tropical cyclone wind speed probabilities*. *Weather and Forecasting*, **24**, 1573-1591.

Doyle, J.D., C. Amerault, C. Reynolds: 2010: *Initial condition sensitivity analysis for hurricane forecasts*. *Comput. Sci. Eng.*, **To be submitted**.

Dunion, J. P., 2010: *Re-writing the climatology of the tropical north Atlantic and Caribbean Sea atmosphere*. **Submitted to J. Clim.**

Dunkerton, T. J., M. T. Montgomery, and Z. Wang, 2009: *Tropical cyclogenesis in a tropical wave critical layer: Easterly waves*. *Atmos. Chem. Phys.*, **9**, 587-5646.

Fairall, C. W., M. Banner, W. Peirson, R. P. Morison, and W. Asher, 2009: *Investigation of the physical scaling of sea spray spume droplet production*. *J. Geophys. Res.*, **114**, C10001, doi:10.1029/2008JC004918.

Fan, Y., I. Ginis, T. Hara, C. W. Wright, and E. Walsh, 2009: *Numerical simulations and observations of surface wave fields under an extreme tropical cyclone*. *J. Phys. Oceanogr.*, **39**, 2097-2116.

Fan, Y., I. Ginis, and T. Hara, 2010: *Momentum flux budget across air-sea interface under uniform and tropical cyclones winds*. *J. Phys. Oceanogr.*, **in review**.

Fang, J, F. Zhang, 2010: *Initial development and genesis of Hurricane Dolly (2008)*. *Journal of the Atmospheric Sciences*, **in press**.

Fierro, A. O., R. F. Rogers, F. D. Marks, and D. S. Nolan, 2009: *The impact of horizontal grid spacing on the microphysical and kinematic structures of strong tropical cyclones simulated with the WRF-ARW model*. *Mon. Wea. Rev.*, **137**, 3717-3743.

Goñi, G., M. DeMaria, J. Knaff, C. Sampson, J. Price, A. Mehra, I. Ginis, I.-I. Lin, P. Sandery, S. Ramos-Buarque, M. M. Ali, F. Bringas, S. Aberson, R. Lumpkin, G. Halliwell, C. Lauer, E. Chassignet, A. Mavume, and K. Kang, 2010: *The ocean observing system for tropical cyclone intensification forecasts and studies*. *Oceanobs.*, **in print**.

Gruskin, Z., 2010: *Structure and evolution of a possible U. S. landfalling tropical storm in 2006*. *Mon. Wea. Rev.*, **138**, 265-278.

Hendricks, E. A., M. S. Peng, and B. Fu, and T. Li, 2010: *Quantifying environmental control on tropical cyclone intensity change*. **Mon. Wea. Rev.**, **submitted**.

Heymsfield, A. J., A. Bansemer, G. Heymsfield, and A. O. Fierro, 2009: *Microphysics of maritime tropical convective updrafts at temperatures from  $-20^{\circ}$  to  $-60^{\circ}$* . **J. Atmos. Sci.**, **66**, 3530-3562.

Ismail, S., R. A. Ferrare, E. V. Browell, S. A. Kooi, J. P. Dunion, G. Heymsfield, A. Notari, C. F. Butler, S. Burton, M. Fenn, T. N. Krishnamurti, M. Biswas, G. Chen, and B. Anderson, 2010: *LASE measurements of water vapor, aerosol, and cloud distributions in Saharan Air Layers and tropical disturbances*. **J. Atmos. Sci.**, **in print**.

Jones, R. W., H. E. Willoughby, and M. T. Montgomery: 2009: *Alignment of Hurricane-like Vortices on  $f$  and  $\beta$  Planes*. **J. Atmos. Sci.**, **66**, 1779-1792.

Kaplan, J., M. DeMaria, and J. A. Knaff, 2010: *A revised tropical cyclone rapid intensification index for the Atlantic and Eastern North Pacific basins*. **Wea. Forecast.**, **in print**.

Katzberg, S. J., and J. Dunion, 2009: *Comparison of reflected GPS wind speed retrievals with dropwindsondes in tropical cyclones*. **Geophys. Res. Lett.**, **36**, L17602.

Krishnamurti, T.N., M.K. Biswas, B.P. Mackey, R.G. Ellingson and P. Ruscher, 2010a. *Recent real-time hurricane forecasts with the FSU multimodel superensemble*. **Mon. Wea. Rev** (**Under revision**)

Krishnamurti, T.N., S. Pattnaik, M.K. Biswas, M. Kramer, Ed Bensman, N. Surgi and T.S.V. Kumar, 2010b. *Multimodel ensemble forecasts of hurricane for a suite of mesoscale models*. **Tellus A** (**Under revision**)

Lorsolo, S., J. A. Zhang, F. Marks, Jr., and J. Gamache, 2010: *Estimation and mapping of hurricane turbulent energy using airborne Doppler measurements*. **Mon. Wea. Rev.**, **in print**.

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Montgomery, M. T., Z. Wang, and T. J. Dunkerton, 2010: *Intermediate and high-resolution simulations of the transition of a tropical wave critical layer to a tropical depression. Submitted to Atmos. Chem. Phys.*

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Murillo, S. T., 2008: *Determination of the Circulation Center and Inner Core Evolution of Hurricane Danny (1997) using the GBVTD-simplex Algorithm. M. S. Thesis, University of Hawai'i at Manoa.*

Nolan, D. S., J. A. Zhang, and D. P. Stern, 2009: *Evaluation of planetary boundary layer parameterizations in tropical cyclones by comparison of in situ observations and high-resolution simulations of Hurricane Isabel (2003). Part I: Initialization, maximum winds, and the outer-core boundary layer. Mon. Wea. Rev., 137, 3651-3674.*

Nolan, D. S., D. P. Stern, and J. A. Zhang, 2009: *Evaluation of planetary boundary layer parameterizations in tropical cyclones by comparison of in situ observations and high-resolution simulations of Hurricane Isabel (2003). Part II: Inner-core boundary layer and eyewall structure. Mon. Wea. Rev., 137, 3675-3698.*

Powell, M. D., and T. A. Reinhold: 2007: *Reply. Bull. Amer. Met. Soc., 88, 1800-1801.*

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Powell, M. D., E. W. Uhlhorn, and J. D. Kepert, 2009: *Estimating maximum surface winds from hurricane reconnaissance missions. Wea. Forecast., 24, 868-883.*

Powell, M., S. Murillo, P. Dodge, E. Uhlhorn, J. Gamache, V. Cardone, A. Cox, S. Otero, B. Annane, and R. St. Fleur, 2010: *Reconstruction of Hurricane Katrina's wind fields for storm surge and wave forecasting. Ocean. Eng., 37, 26-36.*

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Reasor, P. D., M. D. Eastin, and J. F. Gamache, 2009: *Rapidly intensifying Hurricane Guillermo (1997). Part I: Low-wavenumber structure and evolution. Mon. Wea. Rev., 137, 603-631.*

Ramos, N. A., S. D. Aberson, G. Jenkins, and V. Morris, 2010: *2004 Hurricane Danielle tropical cyclogenesis using the National Center for Atmospheric Research (NCAR) Weather Research and Forecasting (WRF) model. Submitted to Mon. Wea. Rev.*

Reynolds, C. A., J. D. Doyle, R. M. Hodur, and H. Jin, 2010: *Naval Research Laboratory Multi-scale Targeting Guidance for T-PARC and TCS-08. to appear in Wea. Forecasting.*

Riemer, M., M. T. Montgomery, and M. E. Nicholls, 2010: *A new paradigm for intensity modification of tropical cyclones: Thermodynamic impact of vertical wind shear on the inflow layer. Submitted to Atmos. Chem. Phys.*

Rogers, R., and E. Uhlhorn, 2009: *Observations of the structure and evolution of the surface and flight-level wind asymmetries in Hurricane Rita (2005). Geophys. Res. Lett., 35, L2281.*

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Wright, C. W., E. J. Walsh, W. B. Krabill, W. A. Shaffer, S. R. Baig, M. Peng, L. J. Pietrafesa, A. W. Garcia, F. D. Marks, P. G. Black, J. Sonntag, B. D. Beckley, 2009: *Storm surge measurements with an airborne scanning radar altimeter. J. Atmos. Ocean. Tech., 26, 2200-2215.*

Wu, C.-C., J.-H. Chen, S.-G. Chen, S. J. Majumdar, M. S. Peng, C. A. Reynolds, S. D. Aberson, R. Buizza, M. Yamaguchi, T. Nakazawa, and K.-H. Chou, 2009: *Intercomparison of targeted observation guidance for tropical cyclones in the Northwestern Pacific. Mon. Wea. Rev., 137, 2471-2492.*

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