

HFIP Publications 2013

Journals and Periodicals

- Aberson, S.D., 2014: A Climatological Baseline for Assessing the Skill of Tropical Cyclone Phase Forecasts. *Weather and Forecasting*, 29(1):122-129 (doi:10.1175/WAF-D-12-00130.1).
- Aksoy, A., 2013: Storm-relative Observations in Tropical Cyclone Data Assimilation with an Ensemble Kalman Filter. *Monthly Weather Review*, 141(2):506-522 (doi:10.1175/MWR-D-12-00094.1).
- Aksoy, A., S.D. Aberson, T. Vukicevic, K.J. Sellwood, S. Lorsolo, and X. Zhang, 2013: Assimilation of High-resolution Tropical Cyclone Observations with an Ensemble Kalman Filter Using NOAA/AOML/HRD's HEDAS: Evaluation of the 2008-2011 Vortex-scale Analyses. *Monthly Weather Review*, 141(6):1842-1865 (doi:10.1175/MWR-D-12-00194.1).
- Byrne, D., and J.A. Zhang, 2013: Height-dependent Transition from 3-D to 2-D Turbulence in the Hurricane Boundary Layer. *Geophysical Research Letters*, 40(7):1439-1442 (doi:10.1002/grl.50335) .
- Cione, J.J., E.A. Kalina, J.A. Zhang, and E.W. Uhlhorn, 2013: Observations of Air-sea Interaction and Intensity Change in Hurricanes. *Monthly Weather Review*, 141(7):2368-2382, (doi:10.1175/MWR-D-12-00070.1).
- Coddington, O., P. Pilewskie, K.S. Schmidt, P.J. McBride, and T. Vukicevic, 2013: Characterizing a New Surface-based Shortwave Cloud Retrieval Technique, Based on Transmitted Radiance for Soil and Vegetated Surface Types. *Atmosphere*, 4(1):48-71 (doi:10.3390/atmos4010048) .
- DeMaria, M., J. A. Knaff, M. Brennan, D. Brown, C. Lauer, R. T. DeMaria, A. Schumacher, R. D. Knabb, D. P. Roberts, C. R. Sampson, P. Santos, D. Sharp, and K. A. Winters, 2013: Improvements to the Operational Tropical Cyclone Wind Speed Probability Model. *Weather and Forecasting*, 28(3): 586-602. (doi: 10.1175/WAF-D-12-00116.1).
- Edson, J.B., J. V. S. Raju, R.A. Weller, S. Bigorre, A. Plueddemann, C.W. Fairall, S. Miller, L. Mahrt, D. Vickers, and H. Hersbach, 2013: On the Exchange of Momentum Over the Open Ocean. *Journal of Physical Oceanography*, 43(8): 1589–1610 (doi: 10.1175/JPO-D-12-0173.1).
- Elsberry, R.L., L. Chen, J. Davidson, R. Rogers, Y. Wang, and L. Wu, 2013: Advances in Understanding and Forecasting Rapidly Changing Phenomena in Tropical Cyclones. *Tropical Cyclone Research and Review*, 2(1):13-24 (doi:10.6057/2013TCRR01.02).
- Fang, X. and Y.-H. Kuo, 2013: Improving Ensemble-based Quantitative Precipitation Forecast for Topography-enhanced Typhoon Heavy Rainfall over Taiwan with a Modified Probability-matching Technique. *Monthly Weather Review*, 141(11), 3908-3932 (doi: 10.1175/MWR-D-13-00012.1).
- Galarneau, T. J., Jr., and C. A. Davis, 2013: Diagnosing Forecast Errors in Tropical Cyclone Motion. *Monthly Weather Review*, 141(2): 405–430 (doi: 10.1175/MWR-D-12-00071.1).
- Galarneau, T. J., Jr., C. A. Davis, and M. A. Shapiro, 2013: Intensification of Hurricane Sandy (2012) Through Extratropical Warm Core Seclusion. *Monthly Weather Review*, 141(12): 4296–4321 (doi: 10.1175/MWR-D-13-00181.1).

- Gall, R., J. Franklin, F.D. Marks E.N. Rappaport, and F. Toepfer, 2013: The Hurricane Forecast Improvement Project. *Bulletin of the American Meteorological Society*, 94(3):329-343 (doi:10.1175/BAMS-D-12-00071.1).
- Giammanco, I.M., J.L. Schroeder, and M.D. Powell, 2013: GPS Dropwindsonde and WSR-88D Observations of Tropical Cyclone Vertical Wind Profiles and Their Characteristics. *Weather and Forecasting*, 28(1):77-99 (doi:10.1175/WAF-D-11-00155.1).
- Gopalakrishnan, S.G., F. Marks, J.A. Zhang, X. Zhang, J.-W. Bao, and V. Tallapragada, 2013: A Study of the Impacts of Vertical Diffusion on the Structure and Intensity of Tropical Cyclones Using the High Resolution HWRf System. *Journal of the Atmospheric Sciences*, 70(2):524-541 (doi:10.1175/JAS-D-11-0340.1).
- Green, B.W., and F. Zhang, 2013: Impacts of Air-sea Flux Parameterizations on the Intensity and Structure of Tropical Cyclones. *Monthly Weather Review*, 141(7):2308-2324 (doi: 10.1175/MWR-D-12-00274.1).
- Hamill, T. M., G. T. Bates, J. S. Whitaker, D. R. Murray, M. Fiorino, T. J. Galarneau, Jr., Y. Zhu, and W. Lapenta, 2013: NOAA's Second-generation Global Medium-range Ensemble Reforecast Data Set. *Bulletin of the American Meteorological Society*, 94(10): 1553–1565 (doi: 10.1175/BAMS-D-12-00014.1).
- Hendricks, E. A., M. S. Peng, and T. Li, 2013: Evaluation of Multiple Dynamic Initialization Schemes for Tropical Cyclone Prediction. *Monthly Weather Review*, 141(11): 4028-4048 (doi: 10.1175/MWR-D-12-00329.1).
- Hope, M.E., J.J. Westerink, A.B. Kennedy, P.C. Kerr, J.C. Dietrich, C. Dawson, C.J. Bender, J.M. Smith, R.E. Jensen, M. Zijlema, L.H. Holthuijsen, R.A. Luettich, M.D. Powell, V.J. Cardone, A.T. Cox, H. Pourtaheri, H.J. Roberts, J.H. Atkinson, S. Tanaka, H.J. Westerink, and L.G. Westerink, 2013: Hindcast and Validation of Hurricane Ike (2008): Waves, Forerunner, and Storm Surge. *Journal of Geophysical Research*, 118(9):4424-4460 (doi:10.1002/jgrc.20314).
- Jin, Y., S. Wang, J. E. Nachamkin, J. D. Doyle, G. J. Thompson, L. Grasso, T. Holt, J. Moskaitis, H. Jin, R. M. Hodur, Q. Zhao, M. Liu, and M. DeMaria, 2014: The Impact of Ice Phase Cloud Parameterization on Tropical Cyclone Prediction. *Monthly Weather Review*, 142(2): 606-625 (doi: 10.1175/MWR-D-13-00058.1).
- Katzberg, S.J., J.P. Dunion, and G.G. Ganoë, 2013: The Use of Reflected GPS Signals to Retrieve Ocean Surface Wind Speeds in Tropical Cyclones. *Radio Science*, 48(4):371-387 (doi:10.1002/rds.20042).
- Kerr, P.C., A.S. Donahue, J.J. Westerink, R.A. Luettich, L.Y. Zheng, R.H. Weisberg, Y. Huang, H.V. Wang, Y. Teng, D.R. Forrest, A. Roland, A.T. Haase, A.W. Kramer, A.A. Taylor, J.R. Rhome, J.C. Feyen, R.P. Signell, J.L. Hanson, M.E. Hope, R.M. Estes, R.A. Dominguez, R.P. Dunbar, L.N. Semeraro, H.J. Westerink, A.B. Kennedy, J.M. Smith, M.D. Powell, V.J. Cardone, and A.T. Cox, 2013: U.S. IOOS Coastal and Ocean Modeling Testbed: Inter-model Evaluation of Tides, Waves, and Hurricane Surge in the Gulf of Mexico. *Journal of Geophysical Research*, 118(C10):5129-5172 (doi:10.1002/jgrc.20376).
- Kim, H-S, C. Lozano, V. Tallapragada, D. Iredell, D. Sheinin, H. L. Tolman, V. M. Gerald, and J. Sims, 2014: Performance of Ocean Simulations in the Coupled HWRf–HYCOM Model. *Journal of Atmospheric and Oceanic Technology*, 31(2): 545–559, (doi: 10.1175/JTECH-D-13-00013.1).
- Knaff, J. A., M. DeMaria, C. R. Sampson, J. E. Peak, J. Cummings, and W. H. Schubert, 2013: Upper Oceanic Energy Response to Tropical Cyclone Passage. *Journal of Climate*, 26(8): 2631-2650 (doi: 10.1175/JCLI-D-12-00038.1).
- Li, X., J.A. Zhang, X. Yang, W.G. Pichel, M. DeMaria, D. Long, and Z. Li, 2013: Tropical Cyclone Morphology from Spaceborne Synthetic Aperture Radar. *Bulletin of the American Meteorological Society*, 94(2):215-230 (doi:10.1175/BAMS-D-11-00211.1).

- Li, X., W. Zheng, X. Yang, J.A. Zhang, W.G. Pichel, and Z. Li, 2013: Coexistence of Atmospheric Gravity Waves and Boundary Layer Rolls Observed by SAR. *Journal of the Atmospheric Sciences*, 70(11):3448-3459 (doi:10.1175/JAS-D-12-0347.1).
- Lin, I-I, G.J. Goni, J.A. Knaff, C. Forbes, and M.M. Ali, 2013: Ocean Heat Content for Tropical Cyclone Intensity Forecasting and Its Impact on Storm Surge. *Journal of Natural Hazards*. 66(3): 1481-1500 (doi:10.1007/s11069-012-0214-5).
- Lorsolo, S., J. Gamache, and A. Aksoy, 2013: Evaluation of the Hurricane Research Division Doppler Radar Analysis Software Using Synthetic Data. *Journal of Atmospheric and Oceanic Technology*, 30(6):1055-1071 (doi:10.1175/JTECH-D-12-00161.1).
- Majumdar, S. J., M. J. Brennan, and K. Howard, 2013: The Impact of Dropwindsonde and Supplemental Rawinsonde Observations on Track Forecasts for Hurricane Irene (2011). *Weather and Forecasting*, 28(6): 1385–1403 (doi: 10.1175/WAF-D-13-00018.1).
- Martinez-Pedraja, J., L. K. Shay, B. K. Haus and C. Whelan, 2013: Interoperability of Sea-sonde and Wellen Radars in Mapping Radial Surface Currents. *Journal of Atmospheric and Oceanic Technology*, 30 (11): 2662-2675 (doi: 10.1175/JTECH-D-13-00022.1).
- Meyers, P. C., L. K. Shay and J. K. Brewster, 2014: Systematically Merged Atlantic Regional Temperature and Salinity Climatology for Hurricane Intensity Forecasting. *Journal of Atmospheric and Oceanic Technology*, 31(1): 131-149(doi: 10.1175/JTECH-D-13-00100.1).
- Misra, V., S. DiNapoli, and M.D. Powell, 2013: The Track Integrated Kinetic Energy of Atlantic Tropical Cyclones. *Monthly Weather Review*, 141(7):2383-2389 (doi:10.1175/MWR-D-12-00349.1).
- Munsell, E. B., and F. Zhang, 2014: Prediction and Uncertainty of Hurricane Sandy (2012) Explored Through a Real-time Cloud-permitting Ensemble Analysis and Forecast System Assimilating Airborne Doppler Observations. *Journal of Advanced Modeling in Earth Sciences*, 6(1):1-20 (doi:10.1002/2013MS000297).
- Munsell, E. B., F. Zhang, and D. P. Stern, 2013: Predictability and Dynamics of a Non-intensifying Tropical Storm: Erika (2009). *Journal of the Atmospheric Sciences*, 70(8): 2505-2524 (doi: 10.1175/JAS-D-12-0243.1).
- Nicholls, M.E., and M.T. Montgomery, 2013: An Examination of Two Pathways to Tropical Cyclogenesis Occurring in Idealized Simulations with a Cloud-resolving Numerical Model. *Atmospheric Chemistry and Physics*, 13(12):5999-6022 (doi:10.5194/acp-13-5999-2013).
- Nolan, D.S., R. Atlas, K.T. Bhatia, and L.R. Bucci, 2013: Development and Validation of a Hurricane Nature Run Using the Joint OSSE Nature Run and the WRF Model. *Journal of Advances in Modeling Earth Systems*, 5(2):382-405 (doi:10.1002/jame.20031).
- Qian, C., F. Zhang, B. W. Green, J. Zhang, and X. Zhou, 2013: Probabilistic Evaluation of the Dynamics and Prediction of Super Typhoon Megi (2010). *Weather and Forecasting*, 28(6): 1562–1577 (doi: 10.1175/WAF-D-12-00121.1).
- Ralph, F.M., J. Intrieri, D. Andra, R. Atlas, S. Boukabara, D. Bright, P. Davidson, B. Entwistle, J. Gaynor, S. Goodman, J.-G. Jiing, A. Harless, J. Huang, G. Jedlovec, J. Kain, S. Koch, B. Kuo, J. Levit, S. Murillo, L.P. Riishojgaard, T. Schneider, R. Schneider, T. Smith, and S. Weiss, 2013: The Emergence of Weather-related Testbeds Linking Research and Forecasting Operations. *Bulletin of the American Meteorological Society*, 94(8):1187-1211 (doi:10.1175/BAMS-D-12-00080).
- Reasor, P., R. Rogers, and S. Lorsolo, 2013: Environmental Flow Impacts on Tropical Cyclone Structure Diagnosed from Airborne Doppler Radar Composites. *Monthly Weather Review*, 141(9):2949-2969 (doi:10.1175/MWR-D-12-00334.1).

- Reichl, B.G., T. Hara, and I. Ginis, 2014: Sea State Dependence of the Wind Stress Over the Ocean Under Hurricane Winds. *Journal of Geophysical Research*, 119(1): 30-51 (doi: 10.1002/2013JC009289).
- Renno, N.O., E. Williams, D. Rosenfeld, D.G. Fischer, J. Fischer, T. Kremic, A. Agrawal, M.O. Andreae, R. Bierbaum, R. Blakeslee, A. Boerner, N. Bowles, H. Christian, A. Cox, J. Dunion, A. Horvath, X. Huang, A. Khain, S. Kinne, M.C. Lemos, J.E. Penner, U. Poschl, J. Quaas, E. Seran, B. Stevens, T. Walati, and T. Wagner, 2013: CHASER: An Innovative Satellite Mission Concept to Measure the Effects of Aerosols on Clouds and Climate. *Bulletin of the American Meteorological Society*, 94(5):685-694 (doi:10.1175/BAMS-D-11-00239).
- Reynolds, C. A., R. Langland, P. M. Pauley, and C. Velden: 2013: Tropical Cyclone Data Impact Studies: Influence of Model Bias and Synthetic Observations. *Monthly Weather Review*, 141(12): 4373-4394 (doi: 10.1175/MWR-D-12-00300.1).
- Riemer, M., M.T. Montgomery, and M.E. Nicholls, 2013: Further Examination of the Thermodynamic Modification of the Inflow Layer of Tropical Cyclones by Vertical Wind Shear. *Atmospheric Chemistry and Physics*, 13(1):327-346 (doi:10.5194/acp-13-327-2013).
- Rio-Berrios, R., T. Vukicevic, and B. Tang, 2014: Adopting Model Uncertainties for Tropical Cyclone Intensity Prediction. *Monthly Weather Review*, 142(1):72-78 (doi:10.1175/MWR-D-13-00186.1).
- Rodriguez-Alvarez, N., D. M. Akos, V. U. Zavorotny, J. A. Smith, A. Camps, and C. W. Fairall, 2013: Airborne GNSS-R Wind Retrievals Using Delay-Doppler Maps. *Institute for Electrical and Electronics Engineering Transactions on Geoscience and Remote Sensing*, 51(1): 626-41 (doi: 10.1109/TGRS.2012.2196437).
- Rogers, R., P. Reasor, and S. Lorsolo, 2013: Airborne Doppler Observations of the Inner-core Structural Differences Between Intensifying and Steady-state Tropical Cyclones. *Monthly Weather Review*, 141(9):2970-2991 (doi:10.1175/MWR-D-12-00357.1).
- Rogers, R.F., S.D. Abers, A. Aksoy, B. Annane, M. Black, J.J. Cione, N. Dorst, J. Dunion, J.F. Gamache, S.B. Goldenberg, S.G. Gopalakrishnan, J. Kaplan, B.W. Klotz, S. Lorsolo, F.D. Marks, S.T. Murillo, M.D. Powell, P.D. Reasor, K.J. Sellwood, E.W. Uhlhorn, T. Vukicevic, J.A. Zhang, and X. Zhang, 2013: NOAA's Hurricane Intensity Forecasting Experiment (IFEX): A Progress Report. *Bulletin of the American Meteorological Society*, 94(6):859-882 (doi:10.1175/BAMS-D-12-00089).
- Sampson, C. R., P. A. Wittmann, E. A. Serra, H. L. Tolman, J. Schauer, and T. Marchok, 2013: Evaluation of Wave Forecasts Consistent with Tropical Cyclone Wind Forecasts, *Weather and Forecasting*, 28(1): 287-294 (doi:10.1175/WAF-D-12-00060.1).
- Sanabia, E.R., B. Barrett, P.G. Black, S. Chen, and J.A. Cummings, 2013: Implementation of Upper-ocean Temperature Measurements in Operational Hurricane Reconnaissance: successes and challenges from the 2011 AXBT Demonstration Project. *Weather and Forecasting* 28(6): 1404-1422 (doi: 10.1175/WAF-D-12-00107.1).
- Shieh, O.H., M. Fiorino, M.E. Kucas and B. Wang, 2013: Extreme Rapid Intensification of Typhoon Vicente (2012) in the South China Sea. *Weather and Forecasting*, 28 (6): 1578-1587 (doi: 10.1175/WAF-D-13-00076.1).
- Stern, D. P., and F. Zhang, 2013: How Does the Eye Warm? Part I: A Potential Temperature Budget Analysis of an Idealized Tropical Cyclone. *Journal of the Atmospheric Sciences*, 70(1): 73-90 (doi: 10.1175/JAS-D-11-0329.1).
- Stern, D. P., and F. Zhang, 2013: How Does the Eye Warm? Part II: Sensitivity to Vertical Wind Shear and a Trajectory Analysis. *Journal of the Atmospheric Sciences*, 70(7): 1849-1873 (doi: 10.1175/JAS-D-12-0258.1).

- Smith, T.A., S. Chen, T. Campbell, E. Rogers, S. Gabersek, D. Wang, S. Carroll, and R. Allard, 2013: Ocean-Wave Coupled Modeling in COAMPS-TC: A Study of Hurricane Ivan (2004). *Ocean Modeling*, 69(2013): 181-194 (doi:10.1016/j.ocemod.2013.06.003).
- Terwey, W., S.F. Abarca, and M.T. Montgomery, 2013: Comments on "Convectively Generated Potential Vorticity in Rainbands and Formation of the Secondary Eyewall in Hurricane Rita of 2005." *Journal of the Atmospheric Sciences*, 70(3):984-988 (doi:10.1175/JAS-D-12-030.1).
- Thatcher, L. and Z. Pu, 2013: Evaluation of Tropical Cyclone Genesis Precursors with Relative Operating Characteristics (ROC) in High-resolution Ensemble Forecasts: Hurricane Ernesto. *Tropical Cyclone Research and Review*, 2(3): 131-148 (doi: 10.6057/2013TCRR03.01).
- Uhlhorn, E.W., and L.K. Shay, 2013: Loop Current Mixed Layer Energy Response to Hurricane Lili (2002): Part II: Idealized Numerical Simulations. *Journal of Physical Oceanography*, 43(6):1173-1192 (doi:10.1175/JPO-D-12-0203.1).
- van Lier-Walqui, M., T. Vukicevic, and D.J. Posselt, 2014: Linearization of Microphysical Parameterization Uncertainty Using Multiplicative Process Perturbation Parameters. *Monthly Weather Review*, 142(1):401-413 (doi:10.1175/MWR-D-13-00076.1).
- Vukicevic, T., A. Aksoy, P. Reasor, S. Aberson, K. Sellwood, and F. Marks, 2013: Joint Impact of Forecast Tendency and State Error Biases in Ensemble Kalman Filter Data Assimilation of Inner-core Tropical Cyclone Observations. *Monthly Weather Review*, 141(9):2992-3006 (doi:10.1175/MWR-D-12-00211.1).
- Wang, X., D. Parrish, D. Kleist, and J. Whitaker, 2013: GSI 3DVar-based Ensemble-variational Hybrid Data Assimilation for NCEP Global Forecast System: Single Resolution Experiments. *Monthly Weather Review*, 141(11): 4098-4117 (doi: 10.1175/MWR-D-12-00141.1)
- Wu, T-C, H. Liu, S. J. Majumdar, C. S. Velden, and J.L. Anderson, 2014: Influence of Assimilating Satellite-Derived Atmospheric Motion Vector Observations on Numerical Analyses and Forecasts of Tropical Cyclone Track and Intensity. *Monthly Weather Review*, 142(1): 49–71 (doi: 10.1175/MWR-D-13-00023.1).
- Xie, B., F. Zhang, Q. Zhang, J. Poterjoy, and Y. Weng, 2013: Observing Strategy and Observation Targeting for Tropical Cyclones Using Ensemble-based Sensitivity Analysis and Data Assimilation. *Monthly Weather Review*, 141(5): 1437-1453 (doi: 10.1175/MWR-D-12-00188.1).
- Xu, H., X. Zhang, and X. Xu, 2013: Impact of Tropical Storm Bopha on the Intensity Change of Supertyphoon Saomai in the 2006 Typhoon Season. *Advances in Meteorology*, 2013(487010): 13 pp. (doi:10.1155/2013/487010).
- Yang, Y.-T., H.-C. Kuo, E. A. Hendricks, and M. S. Peng, 2013: Structural and Intensity Changes of Concentric Eyewall Typhoons in the Western North Pacific Basin, *Monthly Weather Review*, 141 (8): 2632-2648 (doi:10.1175/MWR-D-12-00251.1).
- Yablonsky, R. M., and I. Ginis, 2013: Impact of a Warm Ocean Eddy's Circulation on Hurricane-induced Sea Surface Cooling with Implications for Hurricane Intensity. *Monthly Weather Review*, 141(3): 997-1021 (doi: 10.1175/MWR-D-12-00248.1).
- Zhang, B., W. Perrie, J.A. Zhang, E.W. Uhlhorn, and Y. He, 2014: High-resolution Hurricane Vector Winds from C-band Dual-polarization SAR Observations. *Journal of Oceanic and Atmospheric Technology*, 31(2):272-286 (doi:10.1175/JTECH-D-13-00006.1).
- Zhang, F., and D. Tao, 2013: Effects of Vertical Wind Shear on the Predictability of Tropical Cyclones. *Journal of the Atmospheric Sciences*, 70(3): 975-983 (doi: 10.1175/JAS-D-12-0133.1).

- Zhang, J.A., R.F. Rogers, P.D. Reasor, E.W. Uhlhorn, and F.D. Marks, 2013: Asymmetric Hurricane Boundary Layer Structure from Dropsonde Composites in Relation to the Environmental Vertical Wind Shear. *Monthly Weather Review*, 141(11):3968-3984 (doi:10.1175/MWF-D-12-00335.1).
- Zhang, M., M. Zupanski, M-J Kim, and J. A. Knaff, 2013: Assimilating AMSU-A Radiances in the TC Core Area with NOAA Operational HWRF (2011) and a Hybrid Data Assimilation System: Danielle (2010). *Monthly Weather Review*, 141(11): 3889–3907 (doi: 10.1175/MWR-D-12-00340.1).
- Zou, X., F. Weng, B. Zhang, L. Lin, Z. Qin and V. Tallapragada, 2013: Impact of ATMS Radiance Data Assimilation on Hurricane Track and Intensity Forecasts Using HWRF. *Journal of Geophysical Research*, 118(20): 1-19 (doi:10.1002/2013JD020405).

Publications in Print

- Bu, Y.P., R.G. Fovell and K.L. Corbosiero, 2014: The Influence of Cloud-radiative Forcing on Tropical Cyclone Storm Structure. *Journal of the Atmospheric Sciences*, in print (doi:10.1175/JAS-D-13-0265.1)
- DeMaria, M, C. R. Sampson, J. A. Knaff and K. D. Musgrave, 2014: Is Tropical Cyclone Intensity Guidance Improving? *Bulletin of the American Meteorological Society*, in print (doi: 10.1175/BAMS-D-12-00240.1)
- Goerss, J. S. and C. R. Sampson, 2014: Prediction of Consensus Tropical Cyclone Intensity Forecast Error. *Weather and Forecasting*, in print (doi: 10.1175/WAF-D-13-00058.1).
- Green, B.W., and F. Zhang, 2014: Sensitivity of Tropical Cyclone Simulations to Parametric Uncertainties in Air-Sea Fluxes and Implications for Parameter Estimation. *Monthly Weather Review*, in print (doi: http: 10.1175/MWR-D-13-00208.1).
- Hendricks, E. A., W. H. Schubert, Y.-H. Chen, H.-C. Kuo, and M. S. Peng, 2014: Hurricane Eyewall Evolution in a Forced Shallow Water Model. *Journal of the Atmospheric Sciences*, in print (doi:10.1175/JAS-D-13-0303.1).
- Jin, H., M. Peng, Y. Jin, and J.D. Doyle, 2014: An Evaluation of the Impact of Horizontal Resolution on Tropical Cyclone Predictions Using COAMPS-TC. *Weather and Forecasting*, in print (doi:10.1175/WAF-D-13-00054.1).
- Melhauser, C., and F. Zhang, 2014: Diurnal Radiation Cycle Impact on the Pre-genesis Environment of Hurricane Karl (2010). *Journal of the Atmospheric Sciences*, in print (doi: 10.1175/JAS-D-13-0116.1).
- Montgomery, M. T., J. A. Zhang, and R. K. Smith, 2014: An Analysis of the Observed Low-level Structure of Rapidly Intensifying and Mature Hurricane Earl (2010). *Quarterly Journal of the Royal Meteorological Society*, in print (DOI: 10.1002/qj.2283).
- Poterjoy, J., and F. Zhang, 2014: Predictability and Genesis of Hurricane Karl (2010) Examined Through the EnKF Assimilation of Field Observations Collected During PREDICT. *Journal of the Atmospheric Sciences*, in print (doi: 10.1175/JAS-D-13-0291.1).
- Poterjoy, J., F. Zhang, and Y. Weng, 2014: The Effects of Sampling Errors on the EnKF Assimilation of Inner-core Hurricane Observations. *Monthly Weather Review*, in print (doi: 10.1175/MWR-D-13-00305.1).
- Shpund, J., J. A. Zhang, M. Pinsky, and A. Khain, 2014: Microphysical Structure of the Marine Atmospheric Mixed Layer Under Strong Wind and Sea-spray Formation as Seen from a 2-D Explicit Microphysical Model. Part III: Height Dependent Sea-spray Droplet Size Distribution Parameterization. *Journal of the Atmospheric Sciences*, in print (doi: 10.1175/JAS-D-12-0201.1)

- Tallapragada, V., C. Kieu, Y. Kwon, S. Trahan, Q. Liu, Z. Zhang, I-H. Kwon, 2014: Evaluation of Storm Structure from the Operational HWRF Model During 2012 Implementation. *Monthly Weather Review*, in print (doi: 10.1175/MWR-D-13-00010.1)
- Valencia, E., V. U. Zavorotny, D. M. Akos, and A. Camps, 2014: Using DDM Asymmetry Metrics for Wind Direction Retrieval From GPS Ocean-scattered Signals in Airborne Experiments. *Institute for Electrical and Electronics Engineering Transactions on Geoscience and Remote Sensing*, in print, (doi: 10.1109/TGRS.2013.2278151).
- Voronovich, A. G. and V. U. Zavorotny, 2014: Full-polarization Modeling of Monostatic and Bistatic Radar Scattering from a Rough Sea Surface,” *Institute for Electrical and Electronics Engineering Transactions on Antennas and Propagation*, 62(3) (doi 10.1109/TAP.2013.2295235). in print.
- Vukicevic, T., E. Uhlhorn, P. Reasor, and B. Klotz, 2014: A Novel Multi-scale Intensity Metric for Evaluation of Tropical Cyclone Intensity Forecasts. *Journal of the Atmospheric Sciences*, in print (doi: 10.1175/JAS-D-13-0153.1).
- Walsh, Edward J., Ivan PopStefanija, Sergey Matrosov, Jian Zhang, Eric Uhlhorn, and Brad Klotz, 2014: Airborne Rain Rate Measurement with a Wide Swath Radar Altimeter. *Journal of Atmospheric and Oceanic Technology* (doi: 10.1175/JTECH-D-13-00111.1). in print.
- Zhang, J. A., M. T. Montgomery, F. D. Marks Jr., and R. K. Smith, 2014: Comments on "Symmetric and Asymmetric Structures of Hurricane Boundary Layer in Coupled Atmosphere–Wave–Ocean Models and Observations". *Journal of the Atmospheric Sciences*, in print (doi: 10.1175/JAS-D-13-0207.1).

Publications in Review

- Aberson, S. D., A. Aksoy, K. Sellwood, T. Vukicevic, and X. Zhang, 2014: Assimilation of High-resolution Tropical Cyclone Observations with an Ensemble Kalman Filter Using HEDAS: Evaluation of 2008-2011 HWRF Forecasts. *Monthly Weather Review*, submitted.
- Archer, M., and L. K. Shay, 2014: Observed Anticyclones Along the Eastern Flank of the Florida Current Using the High Frequency Radar. *Geophysical Research Letters*, in revision.
- Baranowski, D., P.J. Flatau, S. Chen, and P.G. Black, 2013: Upper Ocean Response to Two Collocated Typhoons. *Ocean Science Discussions*, in review, 10, 2255-2292 (doi:10.5194/osd-10-2255-2013).
- Bernardet, L., V. Tallapragada, S. Bao, S. Trahan, Y. Kwon, Q. Liu, M. Tong, M. Biswas, T. Brown, D. Stark, L. Carson, R. Yablonsky, E. Uhlhorn, S. Gopalakrishnan, X. Zhang, T. Marchok, B. Kuo, and R. Gall, 2014: Community Support and Transition of Research to Operations for the Hurricane Weather Research and Forecasting (HWRF) Model. *Bulletin of the American Meteorological Society*, submitted.
- Chen, H., and S. G. Gopalakrishnan. 2014: A Study on the Asymmetric Rapid Intensification of Hurricane Earl (2010) Using the HWRF System. *Journal of the Atmospheric Sciences*, submitted.
- Cione, J. J., 2014: The Truth About 26C and the Relative Role of the Ocean and Atmosphere at the Hurricane Air-sea Interface. *Monthly Weather Review*, submitted.
- Doyle, J.D., Y. Jin, R. Hodur, S. Chen. Y. Jin. J. Moskaitis, S. Wang, E.A. Hendricks, H. Jin, and T.A. Smith, 2014: Tropical Cyclone Prediction Using COAMPS-TC. *Oceanography*, in review.
- Dunion, J., C. Thorncroft, and C. Velden, 2014: The Tropical Cyclone Diurnal Cycle. *Monthly Weather Review*, submitted.

- Fairall, C.W., S. Pezoa, K. Moran, and D. Wolfe, 2014: An Observation of Sea Spray Microphysics by Airborne Doppler Radar. *Geophysical Research Letters*, submitted.
- Gao, K. and I. Ginis, 2014: On the Generation of Roll Vortices Due to the Inflection Point Instability of the Hurricane Boundary Layer Flow. *Journal of the Atmospheric Sciences*, submitted.
- Halliwell, Jr., G. R., V. Kourafalou, M. Le Henaff, R. Atlas, and L. K. Shay, 2014: OSSE Impact Analysis of Airborne Ocean Surveys for Improving Upper-Ocean Dynamical and Thermodynamical Forecasts in the Gulf of Mexico. *Progress in Oceanography*, submitted.
- Halliwell, Jr., G. R., S. Gopalakrishnan, F. Marks, and D. Willey, 2014: Idealized Study of Ocean Impacts on Tropical Cyclone Intensity Forecasts. *Monthly Weather Review*, submitted.
- Halliwell, G. R., V. Kourafalou, M. Le Hénaff, L. K. Shay, and R. Atlas, 2014: OSSE Impact Analysis of Airborne Ocean Surveys for Improving Upper-ocean Dynamical and Thermodynamical Forecasts in the Gulf of Mexico. *Progress in Oceanography*, submitted.
- Hodyss, D., J. G. McLay, J. R. Moskaitis, and E. A. Serra, 2014: Inducing Tropical Cyclones to Undergo Brownian Motion: A Comparison Between Ito and Stratonovich in a Numerical Weather Prediction Model. *Monthly Weather Review*, accepted (doi: 10.1175/MWR-D-13-00299.1).
- Hogan, T. F., N. Baker, S. Chang, C. Chen, S. Eckermann, M. Flatau, M. Liu, J. McLay, J. R. Moskaitis, M. Peng, C. Reynolds, J. Ridout, B. Ruston, K. Viner, T. Whitcomb, and L. Xu, 2014: The Navy Global Environment Model. *Oceanography*, in review.
- Jaimes, B., L. K. Shay and E. W. Uhlhorn, 2014: Observed Enthalpy Fluxes During the Rapid Intensity Change of Hurricane Earl Relative to Underlying Upper Ocean Features. *Monthly Weather Review*, revised and resubmitted.
- Kieu, C., V. Tallapragada, and W. Hogsett, 2014: Structure of Tropical Cyclones at the Onset of the Rapid Intensification in the HWRf Model. *Geophysical Research Letters*, submitted.
- Klotz, B. W., and E. W. Uhlhorn, 2014: Improved Stepped Frequency Microwave Radiometer Surface Winds in Heavy Precipitation. *Journal of Atmospheric and Oceanic Technology*, in review.
- Latham, T. L., A. Nenes, D. Rosenfeld, Y. Deng, H. Zhang, B. E. Anderson, S. Crumeyrolle, A. J. Beyersdorf, L. D. Ziemba, K. L. Thornhill, E. L. Winstead, R. A. Black, and S. T. Murillo 2014: Blowing Salt Into the Eye Infuriates Hurricanes. *Science*, submitted.
- Nolan, D. S., J. A. Zhang, and E. W. Uhlhorn, 2014: On the Limits of Estimating the Maximum Wind Speeds in Hurricanes. *Monthly Weather Review*, submitted.
- Reasor, P., and M. Montgomery, 2014: Does the Tropical Cyclone's Response to Vertical Wind Shear Depend on the Near-core Tangential Wind Structure? *Journal of the Atmospheric Sciences*, submitted.
- Slocum, C. J., G. J. Wililams, R. K. Taft, and W. H. Schubert, 2014: Tropical Cyclone Boundary Layer Shocks. *Journal of Advances in Modeling Earth Systems*, accepted
- Tallapragada, V., C. Kieu, S. Trahan; Z Zhang, Q Liu, Y C Kwon, W Wang, M Tong, and B. R Strahl, 2014: Experimental, Real-Time Forecasts for the 2012 North-Western Pacific Basin Using the NCEP Operational HWRf. *Weather and Forecasting*, submitted.
- Tao, D., and F. Zhang, 2014: Effect of Environmental Shear, Sea-surface Temperature and Ambient Moisture on the Formation and Predictability of Tropical Cyclones: an Ensemble-mean Perspective. *Journal of Advanced Modeling in Earth Sciences (JAMES)*, submitted.

- Wang, X. and T. Lei, 2014: GSI-based Four Dimensional Ensemble Variational Data Assimilation (4DEnsVar): Formula and Single Resolution Experiments with Real Data for NCEP GFS. *Monthly Weather Review*, in review.
- Yablonsky, R. M., I. Ginis, B. Thomas, V. Tallapragada, D. Sheinin, and L. Bernardet, 2014: Performance of the Ocean Component of NOAA's Operational Hurricane Weather Research and Forecasting (HWRF) Model through 2013. *Journal of Atmospheric and Oceanic Technology*, submitted.
- Zhang, H. and Z. Pu, 2014: Influence of Assimilating Surface Observations on the Prediction of Landfalls of Hurricane Katrina (2005) with Ensemble Kalman Filter. *Monthly Weather Review*, under minor revision
- Zhang, F., and Y. Weng, 2014: Modernizing the Prediction of Hurricane Intensity and Associated Hazards: A Five-year Real-time Forecast Experiment Concluded by Superstorm Sandy (2012). *Bulletin of the American Meteorological Society*, in review.
- Zhang, Y. J., Z. Meng, Y. Weng, and F. Zhang, 2014: Predictability of Tropical Cyclone Intensity Evaluated Through 5-year Forecasts with a Convection-permitting Regional-scale Model in the Atlantic Basin. *Weather and Forecasting*, accepted subject to revisions.
- Zhang Z, V. Tallapragada, C. Kieu, S. Trahan, and W. Wang, 2014: HWRF Based Ensemble Prediction System Using Perturbations from GEFS and Stochastic Convective Trigger Function. *Mon. Wea. Rev. Monthly Weather Review*, submitted.

To Be Submitted for Review and Publication

- Bao, J.-W., S. G. Gopalakrishnan, S. A. Michelson, and coauthors, 2014: Impact of Horizontal and Vertical Diffusion on Idealized Intensification in the HWRF Model. *Monthly Weather Review*, to be submitted.
- Bao, J.-W., S. A. Michelson and E. D. Grell, 2014: Pathway to Frozen Hydrometeor Formation and Tropical Cyclone Development. *Monthly Weather Review*, to be submitted.
- Galarneau, T. J., Jr., 2014: Influence of a Predecessor Rain Event on the Track of Hurricane Isaac (2012). *Monthly Weather Review*, in preparation.
- Galarneau, T. J., Jr., T. M. Hamill, and J. S. Whitaker, 2014: Diagnosis of Track Forecast Errors for Hurricane Rita (2005) Using a High-resolution Regional Reforecast Ensemble. *Weather and Forecasting*, in preparation.
- Galarneau, T. J., Jr., T. M. Hamill, and G. T. Bates, 2014: Climatology of North Atlantic Hurricane Track Forecast Errors in GEFS Medium-range Forecasts (1985-2013). *Weather and Forecasting*, in preparation.
- Jaimes, B., L. K. Shay and E. W. Uhlhorn, 2014: Observed Enthalpy Fluxes During the Rapid Intensity Change of Hurricane Earl. *Monthly Weather Review*, in revision.
- Jaimes, B., and L. K. Shay, 2014: Upwelling and Mixing Processes Induced by Hurricane Isaac Over Geostrophically Balanced Ocean Eddies. *Journal of Physical Oceanography*, in preparation.
- Kaufman, M., I. Ginis, R. M. Yablonsky, and B. Thomas, 2014: Evaluating Ocean Model Resolution Under Hurricane Conditions. *Monthly Weather Review*, in preparation.
- Meyers, P. C., L. K. Shay, B. Jaimes, and J. K. Brewster, 2014: Thermal Ocean Response to Hurricanes Gustav and Ike. *Journal of Geophysical Research*, in preparation.
- Schuster, R. M. and L. K. Shay 2014: Near-inertial Response to Hurricane Ivan. *Journal of Physical Oceanography*, in preparation.

Tallapragada, V., C. Kieu, S. Trahan, Z. Zhang, Q. Liu, Y. C. Kwon, W. Wang, and B. R. Strahl, 2014: Evaluation of the NCEP Operational HWRf for the 2013 North-Western Pacific Typhoon Season . *Weather and Forecasting*, in preparation.

Yablonsky, R. M., I. Ginis, and B. Thomas, 2014: MIPOM-TC: A New Ocean Modeling System with Flexible Initialization for Improved Coupled Hurricane-ocean Model Forecasts. *Journal of Atmospheric and Oceanic Technology*, in preparation.

Books, Chapters, Manuals, and Proceedings

Amerault, C., K. Sashegyi, P. Pauley, and J. D. Doyle, 2013: Quantifying Observation Impact for a Limited Area Forecast Model. Data Assimilation for Atmospheric, Oceanic and Hydrologic Applications Volume II (Eds. Park, Seon Ki, Xu, and Liang), Springer, 125-147.

Bell, G.D., S.B. Goldenberg, C.W. Landsea, E.S. Blake, T.B. Kimberlain, J. Schemm, and R.J. Pasch, 2013: The Tropics: Atlantic Basin. In State of the Climate in 2012, (Eds. J. Blunden and D.S. Arndt), *Bulletin of the American Meteorological Society*, 94(8):S85-S89 (doi:10.1175/2013BAMSStateoftheClimate.1).

Bao, S., R. Yablonsky, D. Stark, and L. Bernardet, 2012: Community HWRf Users Guide V3.4A. *NOAA Technical Memorandum OAR GSD-42, August, 2012*, Developmental Testbed Center, 127 pp. (available from http://docs.lib.noaa.gov/noaa_documents/OAR/GSD/NOAA_TM_GSD-42.pdf).

Bernardet, L., S. Bao, R. Yablonsky, D. Stark, and T. Brown, 2013: Community HWRf Users' Guide V3.5a, NOAA Technical Memorandum OAR GSD-43, August, 2013. Developmental Testbed Center, 139 pp.. (available from http://docs.lib.noaa.gov/noaa_documents/OAR/GSD/NOAA_TM_GSD-43.pdf).

DeMaria M, J.A. Knaff , R. Zehr, 2013: Assessing Hurricane Intensity Using Satellites, Satellite-based Applications on Climate Change (Eds. J.J. Qu, A. Powell, and M.V.K. Sivakumar), Springer, New York, pp 151-163. (doi: 10.1007/978-94-007-5872-8_10)

MET development team, 2013: Model Evaluation Tools – Tropical Cyclone Version 4.1 (MET---TC) User's Guide. May, 2013. Developmental Testbed Center, 37 pp., Available from: http://www.dtcenter.org/met/users/docs/users_guide/MET-TC_Users_Guide_v4.1.pdf.

Slocum, C. J., 2013: Diabatic and Frictional Forcing Effects on the Structure and Intensity of Tropical Cyclones. M.S. thesis, Department of Atmospheric Science, Colorado State University, 77 pp.

Tallapragada, V., L. Bernardet, S. Gopalakrishnan, Y. Kwon, Q. Liu, T. Marchok, D. Sheinin, M. Tong, S. Trahan, R. Tuleya, R. Yablonsky, and X. Zhang, 2013: Hurricane Weather Research and Forecasting (HWRf) Model: 2013 Scientific Documentation. Developmental Testbed Center, 99 pp. (available from <http://www.dtcenter.org/HurrWRF/users/docs/>.)

Technical Reports:

TCMT Stream 1.5 Analysis Team, 2013: Evaluation of 2013 AHW Stream 1.5 Candidates. Available from <http://www.ral.ucar.edu/projects/hfip/includes/h2013/2013-Stream-1.5-AHW-Jun2-final.pdf>

TCMT Stream 1.5 Analysis Team, 2013: Evaluation of 2013 CIRA Stream 1.5 Candidate. Available from http://www.ral.ucar.edu/projects/hfip/includes/h2013/2013_Stream1.5_CIRA-7June-final.pdf

- TCMT Stream 1.5 Analysis Team, 2013: Evaluation of 2013 GFDL Ensemble Stream 1.5 Candidates. Available from <http://www.ral.ucar.edu/projects/hfip/includes/h2013/2013-Stream-1.5-GFDL-20May-final.pdf>
- TCMT Stream 1.5 Analysis Team, 2013: Evaluation of 2013 HWMN Stream 1.5 Candidate. Available from http://www.ral.ucar.edu/projects/hfip/includes/h2013/2013_HWMN_Stream1.5-12Jun-final-update-std-interp-8Jul.pdf
- TCMT Stream 1.5 Analysis Team, 2013: Evaluation of 2013 UWM Stream 1.5 Candidates. Available from <http://www.ral.ucar.edu/projects/hfip/includes/h2013/2013-Stream-15-UW-28May-final.pdf>
- TCMT Stream 1.5 Analysis Team, 2013: Evaluation of COAMPS-TC Stream 1.5 Candidate. Available from <http://www.ral.ucar.edu/projects/hfip/includes/h2013/2013-Stream-1.5-COTC-28May.pdf>
- TCMT Stream 1.5 Analysis Team, 2013: Evaluation of FIM Stream 1.5 Candidates. Available from <http://www.ral.ucar.edu/projects/hfip/includes/h2013/2013-Stream-1.5-FIM-7June-final.pdf>
- TCMT Stream 1.5 Analysis Team, 2013: Evaluation of FSU-MMSE Stream 1.5 Candidate. Available from <http://www.ral.ucar.edu/projects/hfip/includes/h2013/2013-stream-15-MMSE-27May-final.pdf>

Presentations

- Bao, S., L. Bernardet, T. Brown, M. Biswas, D. Stark, and L. Carson, 2013: Community Support and Testing of the Hurricane WRF Model at the Developmental Testbed Center. 67th Interdepartmental Hurricane Conference, 5-7 March, 2013, NOAA Center for Weather and Climate Prediction, College Park, MD. (available at http://www.ofcm.gov/ihc13/Presentations/Posters/p13poster_preview_slide_Shaowu.Bao.pptx)
- Bao S., L. R. Bernardet, T. Brown, M. Biswas, D. Stark, L. Carson, G. Thompson, and J. Vigh, 2013: Community Support and Testing of the Hurricane WRF Model at the Developmental Testbed Center. CIRES Rendezvous, 2 May 2013, Boulder, CO. (available at <http://cires.colorado.edu/events/rendezvous/posters/detail.php?id=4613>)
- Bao, J-W, E. Grell, and S. Michelson, 2013: Toward Energetically Consistent Parameterization of Horizontal and Vertical Sub-Grid Mixing for High-Resolution NWP Models. The European Geosciences Union General Assembly, 7-12 April, 2013, Vienna, Austria.
- Bender, M. A., T. Marchok, I. Ginis, B. Thomas, R. M. Yablonsky, and R. E. Tuleya, 2013: 2013 Upgrades to the Operational GFDL/GFDN Hurricane Model. 67th Interdepartmental Hurricane Conference, 5-7 March, 2013, College Park, MD. Bernardet, L., E. Uhlhorn, S. Bao, J. Cione, 2013: Evaluation of the Ocean Response in HWRF: How Changes in the Atmosphere-Ocean Fluxes Affect Forecast Skill. Tropical Cyclone Research Forum, 67th Interdepartmental Hurricane Conference, 5-8 March, 2013, NOAA Center for Weather and Climate Prediction, College Park, MD.
- Bernardet, L., S. Bao, V. Tallapragada, S. Trahan, M. Biswas, T. Brown, D. Stark, and L. Carson, 2013: HWRF Testing and User Support at the Developmental Testbed Center. 4th NOAA Testbed & Proving Ground Workshop, 2-4 April, 2013, College Park, MD. (available at http://www.testbeds.noaa.gov/events/2013/workshop/presentations/wednesday/Bernardet_NOAATestbeds_2013_HWRF.pdf).

- Bernardet, L., T. Brown, M. Biswas, and G. Thompson, 2013: HWRF with Thompson/RRTMG Preliminary Results as of 11/22. NOAA Hurricane Forecast Improvement Project (HFIP) Diagnostics Workshop, 22 November 2013, College Park, MD.
- Bernardet, L., V. Tallapragada, S. Bao, Y. Kwon, S. Trahan, M. Tong, Q. Liu, X. Zhang, S. Gopalakrishnan, R. Yablonsky, and T. Marchok, 2013: Hurricane WRF: 2013 Operational Implementation and Community Support. 14th Annual Weather Research and Forecasting Workshop, 24-28 June 2013, Boulder, CO.
- Bernardet, L., E. Uhlhorn, S. Bao, and J. Cione, 2013: Evaluation of the Ocean Response in HWRF: How Changes in the Atmosphere-Ocean Fluxes Affect Forecast Skill. 67th Interdepartmental Hurricane Conference, 5-7 March, 2013, NOAA Center for Weather and Climate Prediction, College Park, MD.
- Black, R.A., 2014: Microphysics Influences, HWRF 2013 Version. Hurricane Research Division, Atlantic Oceanographic and Meteorological Laboratory, Monthly Science Meeting, 16 February, 2014, Miami, FL.
- Brown, B. G., L. Nance, P. A. Kucera, and C. Williams, 2013: Evaluation of Experimental Models for Tropical Cyclone Forecasting in Support of the NOAA Hurricane Forecast Improvement Project (HFIP). 67th Interdepartmental Hurricane Conference, 5–8 March, 2013, NOAA Center for Weather and Climate Prediction, College Park, MD.
- Chen, H., 2014: Role of Susidence in RI of Hurricane Earl. Hurricane Research Division, Atlantic Oceanographic and Meteorological Laboratory, Monthly Science Meeting, 16 February, 2014, Miami, FL.
- Chen S., J. Cummings, J. Schmidt, E. Sanabia, B. Barrett, and P. Balck, 2014: Impact of AXBT Ocean Observations on the COAMPS Prediction of Tropical Cyclones. 2014 Tropical Cyclone Research Forum, 68th Interdepartmental Hurricane Conference, March 3-6, 2014, NOAA Center for Weather and Climate Prediction, College Park, MD.
- Cione, J., 2014: Difference in Air-sea Energy Transfer in Weakening and Intensifying Storms. Hurricane Research Division, Atlantic Oceanographic and Meteorological Laboratory, Monthly
- DeMaria, M., K. D. Musgrave, R. L. Gall, and F. Toepfer, 2013: Statistical Post-processing Techniques to Improve Hurricane Forecast Improvement Project (HFIP) Model Guidance (Invited). Symposium on the Role of Statistical Methods in Weather and Climate Prediction., 93rd American Meteorological Society Annual Conference, 5-9 January 2013, Austin, TX. (available online at: <https://ams.confex.com/ams/93Annual/webprogram/Paper218572.html>)
- DeMaria, M., A. Schumacher, J. A. Knaff, J. Kaplan, and R. Brummer, 2013: Improvements in Statistical Tropical Cyclone Forecast Models: A Year 2 Joint Hurricane Testbed Project Update. Tropical Cyclone Research Forum, 67th Interdepartmental Hurricane Conference, 5–8 March, 2013, NOAA Center for Weather and Climate Prediction, College Park, MD.
- Doyle, J.D., 2013: Initial Condition Sensitivity and Predictability of Tropical Cyclone Development and Intensification. 17th Conference on Integrated Observing and Assimilation Systems for Atmosphere, Oceans, and Land Surface (IOAS-AOLS), 93rd American Meteorological Society Annual Conference, 5-9 January 2013, Austin, TX.
- Doyle, J.D., 2013: Recent COAMPS-TC Development and Real-Time Tests. 67th Interdepartmental Hurricane Conference, 5-7 March, 2013, NOAA Center for Weather and Climate Prediction, College Park, MD.
- Doyle, J.D., R. Hodur, J. Moskaitis, S. Chen, E. Hendricks, T. Holt, H. Jin, Y. Jin, A. Reinecke, K. Sashegyi, J. Schmidt, and S. Wang, 2014: An Overview of Recent COAMPS-TC Advancements. 31st Conference on Hurricanes and Tropical Meteorology, 31 March – 4 April 2014, San Diego, CA.

- Doyle, J.D., R. Langland, P. A. Reinecke, and Clark Amerault, 2014: Multi-scale Predictability Aspects of Superstorm Sandy. Superstorm Sandy and the Built Environment: New Perspectives, Opportunities, and Tools, 94th American Meteorological Society Annual Conference, 2-6 February, 2014, Atlanta, GA.
- Doyle, J.D., J. Moskaitis, P. Black, E. Hendricks, and P. A. Reinecke, 2014: Upper-level Outflow, Predictability, and HS3 Observation Impact. 31st Conference on Hurricanes and Tropical Meteorology, 31 March – 4 April 2014, San Diego, CA.
- Doyle, J.D., J. Moskaitis, P. A. Reinecke, Clark Amerault, and R. Langland, 2014: Multi-scale Predictability Aspects of Superstorm Sandy. 31st Conference on Hurricanes and Tropical Meteorology, 31 March – 4 April, 2014, San Diego, CA.
- Dunion, J., J. Kaplan, A. Schumacher, J. Cossuth, and Mark DeMaria, 2013: Development of a Probabilistic Tropical Cyclone Genesis Prediction Scheme. Tropical Cyclone Research Forum, 67th Interdepartmental Hurricane Conference, 5–8 March, 2013, NOAA Center for Weather and Climate Prediction, College Park, MD.
- Fowler, T. L., 2014: The Three R's: Revisions, Rankings, Rapid Intensification / Weakening. Hurricane WRF Tutorial, 14-16 January, 2014, NOAA Center for Weather and Climate Prediction in College Park, MD.
- Fowler, T., E. Tollerud, T. Jensen, W. Clark, E. Gilleland, L. Bernardet, and B. Brown, 2013: WRF Verification for Specific Needs: The DTC Connection with NOAA Testbeds. 14th Annual Weather Research and Forecasting Workshop, 24-28 June 2013, Boulder, CO. (available at <http://www.mmm.ucar.edu/wrf/users/workshops/WS2013/posters/p81.pdf>)
- Galarneau, T. J., Jr., T. M. Hamill, and J. S. Whitaker, 2013: NOAA's Second-Generation GFS Ensemble Reforecast Dataset: Description and Application to Tropical Cyclones. Special Symposium on the Next Level of Predictions in Tropical Meteorology: Techniques, Usage, Support, and Impacts, 93rd American Meteorological Society Annual Conference, 5-9 January 2013, Austin, TX.
- Galarneau, T. J., Jr., and T. M. Hamill, 2014: Diagnosis of Track Forecast Errors for Hurricane Rita (2005) Using a High-Resolution Regional Reforecast Ensemble. 26th Conference on Weather Analysis and Forecasting, 94th American Meteorological Society Annual Conference, 2-6 February, 2014, Atlanta, GA.
- Gall R., F. Toepfer, F. Marks, and E. Rappaport, 2013: The Hurricane Forecast Improvement Project: Recent Operational Implementation. Tropical Cyclone Research Forum, 67th Interdepartmental Hurricane Conference, 5–8 March, 2013, NOAA Center for Weather and Climate Prediction, College Park, MD.
- Ginis, I., R. M. Yablonsky, and B. Thomas, 2013: Advancing NOAA's HWRF Prediction System Through New and Enhanced Physics of the Air-sea-wave Coupling. HFIP Awards First Year Review Teleconference, 15 May, 2013.
- Ginis, I., R. Yablonsky, B. Thomas, V. Tallapragada, H. Tolman, and M. Bender, 2013: Advancing HWRF and GFDL/GFDN Prediction Systems Through New and Enhanced Physics of the Air-sea-wave Coupling Planned for 2013. 67th Interdepartmental Hurricane Conference, 5–8 March, 2013, NOAA Center for Weather and Climate Prediction, College Park, MD
- Gopalakrishnan, S., 2014: The Story of HWRF: Advancements, Promises and Challenges in Tropical Cyclone Structure and Intensity Predictions. 2014 WRF for Hurricanes Tutorial, NOAA Center for Weather and Climate Prediction, 14-16 January, 2014, College Park, MD.

- Gopalakrishnan, S. G., V. Tallapragada, X. Zhang, F. Marks, and R. Atlas, 2013: The Basin-Scale HWRF: Looking Beyond the 10-M Wind Speed for Improved Storm Predictions. Tropical Cyclone Research Forum, 67th Interdepartmental Hurricane Conference, 5–8 March, 2013, NOAA Center for Weather and Climate Prediction, College Park, MD.
- Grell, E., G. Grell and J.-W. Bao, 2013: Experimenting with a Convective Parameterization Scheme Suitable for High-Resolution Mesoscale Models in Tropical Cyclone Simulations. The European Geosciences Union General Assembly, 7-12 April, 2013, Vienna, Austria.
- Grell, E. D., S. A. Michelson, and J.-W. Bao 2013: Sensitivity of the Simulated Structure of Tropical Cyclones to Parameterized Radiation-Cloud Interaction. 14th Annual Weather Research and Forecasting Model Workshop, 24-28 June, 2013, Boulder, CO.
- Grell, E., S. Michelson, and J.-W. Bao, 2013: Sensitivity of the Simulated Structure of Tropical Cyclones to Parameterized Radiation-Cloud Interaction. The European Geosciences Union General Assembly, 7-12 April, 2013, Vienna, Austria.
- Haddad, Z. S., J. Steward, T. Vukicevic, S. Hristova-Veleva, 2013: A Robust Observation Operator and Associated Background Covariances to Assimilate Rain Microwave Radiance into Cloud-Permitting Models (Poster). Tropical Cyclone Research Forum, 67th Interdepartmental Hurricane Conference, 5–8 March, 2013, NOAA Center for Weather and Climate Prediction, College Park, MD.
- Halliwell, Jr., G. R., V. Kourafalou, M. Le Hénaff, and R. Atlas, 2014: OSSE Evaluation of Rapid-response Airborne Ocean Observing Strategies in the Gulf of Mexico. 18th Conference on Integrated Observing and Assimilation Systems for the Atmosphere, Ocean, And Land Surface, 94th American Meteorological Society Annual Conference, 2-6 February, 2014, Atlanta, GA.
- Halliwell, Jr., G. R., V. Kourafalou, M. Le Hénaff, and R. Atlas, 2013: OSSE Evaluation of Rapid-response Airborne Ocean Observing Strategies in the Gulf of Mexico. Poster, Global Ocean Data Assimilation Experiment, OceanView Symposium, 4-6 November, 2013, Baltimore, MD.
- Hong, X., C. A. Reynolds, J. D. Doyle, P. May, S. Chen, M. Flatau, and L. W. O'Neill, 2014: Extended-Range Multi-Scale Simulations of the Madden Julian Oscillation and Tropical Cyclone 05. Second Symposium on Prediction of the Madden-Julian Oscillation: Impacts on Weather and Climate Extremes, 94th American Meteorological Society Annual Conference, 2-6 February, 2014, Atlanta, GA.
- Hong, X., C. A. Reynolds, J. D. Doyle, P. May, S. Chen, M. Flatau, and L. W. O'Neill, 2014: Intraseasonal Forecasting of the Madden Julian Oscillation and Tropical Cyclone 05. 31st Conference on Hurricanes and Tropical Meteorology, 31 March – 4 April 2014, San Diego, CA.
- Hristova-Veleva, S. M., M. Boothe, S. Gopalakrishnan, Z. Haddad, B. Knosp, B. Lambrigtsen, P. P. Li, M. Montgomery, N. Niamsuwan, V. Tallapragada, S. Tanelli, J. Turk, and T. Vukicevic, 2014: Analysis Tools for Online Evaluation of the Operational Hurricane Forecasts Using Satellite Data. 68th Interdepartmental Hurricane Conference, March 3-6, 2014, NOAA Center for Weather and Climate Prediction, College Park, MD, (available at <http://www.ofcm.gov/ihc14/68IHC-Linking-File.htm>)
- Hristova-Veleva, S., P. P. Li, F. J. Turk, B. Knosp, Q. Vu, W. Poulsen, T.-P. Shen, B. Lambrigtsen, Z. Haddad, S. Tanelli, N. Niamsuwan, 2013: The GPM Mission – an Invaluable Source for Model Evaluation and Forecast Improvement: Focus on the High-resolution Hurricane Models. GPM Applications Workshop, November 12-13, 2013, NOAA Center for Weather and Climate Prediction, College Park, MD, (available at <http://pmm.nasa.gov/meetings/2013-gpm-applications-workshop/presentations>)

- Hristova-Veleva, S. M., B. Stiles, T. P. Shen, F. J. Turk, Z. Haddad, S. Gopalakrishnan, T. Vukicevic, and Z. Wang, 2014: Climatological Depiction of Hurricane Structure from Passive Microwave and Scatterometer Observations: Using the 12-year JPL Tropical Cyclone Information System (TCIS) to Create Composites and Establish Reliable Statistics. 31st Conference on Hurricanes and Tropical Meteorology, 31 March – 4 April, 2014, San Diego, CA. (available at <https://ams.confex.com/ams/31Hurr/webprogram/Paper244851.html>)
- Jaime, B., L.K. Shay, J. Brewster, R. Schuster, and M. Powell, 2013: Observations of Upwelling Processes during Tropical Storm Isaac. Tropical Cyclone Research Forum, 67th Interdepartmental Hurricane Conference, 5–8 March, 2013, NOAA Center for Weather and Climate Prediction, College Park, MD.
- Jiang, H., M. Kieper, T. Yuan, E.J. Zipser, and J. Kaplan, 2013: Enhancement of SHIPS-RI Index using Satellite 37 GHz Microwave Ring Pattern. Tropical Cyclone Research Forum, 67th Interdepartmental Hurricane Conference, 5–8 March, 2013, NOAA Center for Weather and Climate Prediction, College Park, MD.
- Jiing, J-G, C. Landsea, and S. Murill, 2013: An Update on The Joint Hurricane Testbed (JHT). Tropical Cyclone Research Forum, 67th Interdepartmental Hurricane Conference, 5–8 March, 2013, NOAA Center for Weather and Climate Prediction, College Park, MD.
- Jin, Y., J.D. Doyle, E. Hendricks, H. Jin, J. Moskaitis, J. Nachamkin, M. Peng, R. Rogers, G. Thompson, 2014: Tropical Cyclone Structure Prediction Using a Regional Model. 31st Conference on Hurricane and Tropical Meteorology, 31 March-4 April 2014, San Diego, CA.
- Kaplan, J., C.M. Rozoff, C.R. Sampson, J. Kossin, C. Velden, and M. DeMaria, 2013: Improvement to the SHIPS Rapid Intensification Index: A Year-2 JHT Project Update. Tropical Cyclone Research Forum, 67th Interdepartmental Hurricane Conference, 5–8 March, 2013, NOAA Center for Weather and Climate Prediction, College Park, MD.
- Kieu, C., and V. Tallapragada, 2014: On the Development of Double Warm Cores in Intense Tropical Cyclones in the HWRF Model. 31st Conference on Hurricane and Tropical Meteorology, 31 March-4 April 2014, San Diego, CA.
- Kieu, C., V. Tallapragada and W. Hogsett, 2014: Structure of Tropical Cyclones at the Onset of Rapid Intensification in the HWRF Model. 31st Conference on Hurricane and Tropical Meteorology, 31 March-4 April 2014, San Diego, CA.
- Kim H.-S., C. Kieu, V. Tallapragada, S. Trahan, and D. Iredell, 2014: Coupled HWRF-HYCOM Modeling System for Typhoon Forecasts. 31st Conference on Hurricane and Tropical Meteorology, 31 March-4 April 2014, San Diego, CA.
- Kim, H.-S., V. Tallapragada, and H. Tolman, 2013: A Loss Mitigation Tool: Coupled Ocean-Hurricane Forecast Model. UKC 2013: US-Korea Conference on Science, Technology, and Entrepreneurship, 7-11 August, 2013, East Rutherford, NJ.
- Kim, H.-S., V. Tallapragada, and H. Tolman, 2013: Study of the Ocean Role in Intensity Forecast for Landfall Hurricanes Using Coupled HYCOM-HWRF System. Air/Sea Coupling Modeling: Processes & Operational Prediction -1. 11th Symposium on the Coastal Environment, 93rd American Meteorological Society Annual Conference, 5-9 January 2013, Austin, TX.

- Kim, H.-S., and H. Tolman, 2013: Examination of SST Potential Intensity in Coupled HWRF Forecasting. Joint Global Ocean Data Assimilation Experiment OceanView/Working Group on Numerical Experimentation Workshop 2013, NOAA Center for Weather and Climate Prediction, 19-21 March, 2013, College Park, MD.
- Kim, H.-S., and H. Tolman, 2014: Ocean, Waves and Sea Spray in HWRF: Efforts, Progress and Future. 2014 WRF for Hurricane Tutorial, NOAA Center for Weather and Climate Prediction, 14-16 January 2014, College Park, MD.
- Kucera, P. A., B. G. Brown, L. Nance, and C. L. Williams, 2014: Evaluation of Experimental Models for Tropical Cyclone Forecasting in Support of the NOAA Hurricane Forecast Improvement Project (HFIP). 68th Interdepartmental Hurricane Conference, 3-6 March, 2014, NOAA Center for Weather and Climate Prediction, College Park, MD
- Kwon, Y., C. Kieu, W. Wang, S. Trahan, Q. Liu, Z. Zhang, V. Tallapragada, and J. Zhang 2013: Potential Upgrades for the Radiation and Boundary Layer Physics in the Operational HWRF Model. Tropical Cyclone Research Forum, 67th Interdepartmental Hurricane Conference, 5-8 March, 2013, NOAA Center for Weather and Climate Prediction, College Park, MD.
- Lord, S., M. Bilder, M. Powell, J. Feyen, A. Westhuysen, and Tim Owen, 2013: COASTAL Act Requirements for Tropical Cyclone Post-Storm Assessments and Response by NOAA and Interagency Partners. Tropical Cyclone Research Forum, 67th Interdepartmental Hurricane Conference, 5-8 March, 2013, NOAA Center for Weather and Climate Prediction, College Park, MD.
- Marks, F., 2013: Tropical Cyclone Research: The View from the Top (HFIP). Tropical Cyclone Research Forum, 67th Interdepartmental Hurricane Conference, 5-8 March, 2013, NOAA Center for Weather and Climate Prediction, College Park, MD.
- Marks, F., H. Chen, and S. Gopalakrishnan, 2014: Were Sandy's Track and Intensity Changes Unusual? Hurricane Research Division, Atlantic Oceanographic and Meteorological Laboratory, Monthly Science Meeting, 9 January, 2014, Miami, FL.
- Marks, F. and R. Ferek, 2013: Comparison of the 2010 and 2012 Snapshots of Tropical Cyclone Research and Development. Tropical Cyclone Research Forum, 67th Interdepartmental Hurricane Conference, 5-8 March, 2013, NOAA Center for Weather and Climate Prediction, College Park, MD.
- Michelson, S., E. D. Grell, and J.-W. Bao 2013 Impact of Complexity in Cloud Microphysics Parameterizations on the Development of Tropical Cyclones. 14th Annual Weather Research and Forecasting Model Workshop, 24-28 June, 2013, Boulder, CO.
- Michelson, S., E. Grell, and J.-W. Bao, 2013: Impact of Complexity in Cloud Microphysics Parameterizations on the Development of Tropical Cyclones. The European Geosciences Union General Assembly, 7-12 April, 2013, Vienna, Austria.
- Moskaitis, J. R., 2013: Are Atlantic Basin Tropical Cyclone Intensity Forecasts Improving? 2013 Tropical Cyclone Research Forum, 67th Interdepartmental Hurricane Conference, 5-7 March, 2013, NOAA Center for Weather and Climate Prediction, College Park, MD.
- Musgrave, K. D., M. DeMaria, B. D. McNoldy, Y. Jin and M. Fiorino, 2013: Further Development of a Statistical Ensemble for Tropical Cyclone Intensity Prediction. 67th Interdepartmental Hurricane Conference, 5-7 March, 2013, College Park, MD. (available online at: http://www.ofcm.gov/ihc13/Presentations/6-Session/07-S6-Musgrave_IHC_2013.pptx).

- Nance, L. B., M. K. Biswas, B. G. Brown, T. L. Fowler, P. A. Kucera, K. M. Newman, J. L. Vigh, and C. L. Williams, 2014: Experimental Model Evaluations for Tropical Cyclone Forecasting. 94th American Meteorological Society Annual Meeting, 2-6 February, 2014, Atlanta, GA.
- Newman, K., J. Halley Gotway, T. Fowler, P. Kucera, B. Brown, and L. Nance, 2013: Development of a New Tropical Cyclone Verification Toolkit (MET-TC). 14th Annual Weather Research and Forecasting Workshop, 24-28 June 2013, Boulder, CO.
- Newman, K., J. Halley Gotway, T. Fowler, P. Kucera, B. Brown, and L. Nance, 2013: Development of a New Tropical Cyclone Verification Toolkit (MET-TC). 67th Interdepartmental Hurricane Conference, 5-7 March, 2013, NOAA Center for Weather and Climate Prediction, College Park, MD.
- Powell, S. J., D. M. Akos, and V. U. Zavorotny, 2014: GPS SBAS L1/L5 Bistatic Radar – Altimetry. National Radio Science Meeting, 8-11 January, 2014, Boulder, CO.
- Reasor, P., and J. Gamache, 2014: Evaluation of New TDR Sampling Strategies in Hurricane Ingrid (2013). Hurricane Research Division, Atlantic Oceanographic and Meteorological Laboratory, Monthly Science Meeting, 10 January, 2014, Miami, FL.
- Reynolds, C. A., X. Hong, and J. D. Doyle, 2014: COAMPS Extended-range Simulations in the Tropics. 26th Conference on Weather Analysis and Forecasting/22nd Conference on Numerical Weather Prediction, 94th American Meteorological Society Annual Conference, 2-6 February, 2014, Atlanta, GA.
- Reynolds, C.A., X. Hong, J. A. Ridout, J. D. Doyle, and M. K. Flatau: Extended-range Multi-scale Prediction in the Tropics for the DYNAMO Time Period. 31st Conference on Hurricanes and Tropical Meteorology, 31 March – 4 April 2014, San Diego, CA.
- Reynolds, C. A., R. Langland, P. Pauley, and C. Velden, 2013: Tropical Cyclone Data Impact Studies from T-PARC. 93rd American Meteorological Society Annual Conference, 5-9 January 2013, Austin, TX.
- Rogers, R., 2014: Aircraft Observations of Hurricanes to Improve the Understanding and Prediction of Tropical Cyclones. 2014 WRF for Hurricanes Tutorial, NOAA Center for Weather and Climate Prediction, 14-16 January, 2014, College Park, MD.
- Ruf, C. S., S. Gleason, Z. Jelenak, S. J. Katzberg, A. J. Ridley, R. Rose, J. Scherrer, and V. Zavorotny, 2013: The NASA EV-2 Cyclone Global Navigation Satellite System (CYGNSS) Mission. The Institute for Electrical and Electronics Engineering Aerospace Conference, 2-9 March, 2013, Big Sky, MT.
- Ruf, C. S., S. Gleason, Z. Jelenak, S. J. Katzberg, A. J. Ridley, R. Rose, J. Scherrer, and V. Zavorotny, 2013: The NASA Cyclone Global Navigation Satellite System (CYGNSS) Mission. European Geosciences Union General Assembly, 7-12 April, 2013, Vienna, Austria.
- Schumacher, A.B., M. DeMaria, R. Berg, E. Gibney, and R.D. Knabb, 2013: Recent Advancements in the Tropical Cyclone Wind Speed Probability Program. Special Symposium on the Next Level of Predictions in Tropical Meteorology, . 93rd American Meteorological Society Annual Conference, 5-9 January 2013, Austin, TX. (available at: <https://ams.confex.com/ams/93Annual/webprogram/Paper223029.html>)
- Shao, H. M. Hu, C. Zhou, K. Newman, M. K. Biswas, D. Stark, L. Bernardet, M. Tong, and J. Derber, 2013: DTC GSI Data Assimilation System Support and Testing Activities: 2013 Annual Update. 14th Annual Weather Research and Forecasting Workshop, 24-28 June 2013, Boulder, CO. (available at <http://www.mmm.ucar.edu/wrf/users/workshops/WS2013/ppts/5A.8.pdf>)

- Shao, H., C. Zhou, L. Bernardet, I. Jankov, M. K. Biswas, B. Etherton, M. Tong, and J. Derber, 2014: Testing and Evaluation of the GSI-hybrid Data Assimilation and Its Applications for HWRf at Developmental Testbed Center. 2014 Tropical Cyclone Research Forum, 68th Interdepartmental Hurricane Conference, March 3-6, 2014, NOAA Center for Weather and Climate Prediction, College Park, MD.
- Shao, H., C. Zhou, M. K. Biswas, L. Bernardet, B. Etherton, M. Tong, J. Derber, and J. Whitaker, 2013: Testing and Evaluation of GSI Hybrid Data Assimilation for Basin-scale HWRf. NOAA Testbeds Workshop, April 2-3, 2013, College Park, MD.
- Slocum, C. J., K. D. Musgrave, L. D. Grasso, G. Chirokova, M. DeMaria, and J.A. Knaff, 2013: Satellite Applications to Hurricane Intensity Forecasting. Cooperative Research Program Science Symposium, 23-24 July, 2013, Madison, WI.
- Tallapragada V., S. Trahan, Y. C. Kwon, Z. Zhang, C. Kieu, Q. Liu, W. Wang, M. Tong, D. Sheinin, E. Liu, B. Zhang, S. Gopalakrishnan, X. Zhang, L. R. Bernardet, R. M. Yablonsky, J. W. Bao, R. J. Pasch, J. L. Franklin, D. A. Zelinsky, B. Strahl, W. Lapenta, R. L. Gall, and F. Toepfer, 2014: Significant Advances to the NCEP Operational HWRf Modeling System for Improved Hurricane Forecasts. 31st Conference on Hurricane and Tropical Meteorology, 31 March-4 April 2014, San Diego, CA.
- Tong M., V. Tallapragada, E. Liu, B. Zhang, W. Wang, C. Kieu, and Q. Liu. Assimilation of Aircraft Reconnaissance Observations with HWRf Hybrid Data Assimilation System. 31st Conference on Hurricane and Tropical Meteorology, 31 March-4 April 2014, San Diego, CA.
- Trahan, S., Y. Kwon, Q. Liu, X. Zhang, H-Y Chuang, D. Zelinsky, G. Thompson, S. Bao, L. Bernardet, V. Tallapragada, and B. Ferrier, 2013: Improved Telescopic Nesting and its Effects on Hurricane Forecasting. Tropical Cyclone Research Forum, 67th Interdepartmental Hurricane Conference, 5-8 March, 2013, NOAA Center for Weather and Climate Prediction, College Park, MD.
- Tyndall, D.P., P.M. Pauley, N.L. Baker, A. McEachen, H.M. Holbach, K.D. Sashegyi, and R. Langland, 2013: Assimilating HDOB Data in COAMPS-TCT and NOGAPS. 93rd American Meteorological Society Annual Conference, 5-9 January 2013, Austin, TX.
- Uhlhorn, E. and Brad Klotz, 2013: Improved SFMR Surface Wind Measurements in Intense Rain Conditions. Tropical Cyclone Research Forum, 67th Interdepartmental Hurricane Conference, 5-8 March, 2013, NOAA Center for Weather and Climate Prediction, College Park, MD.
- Vigh J.L., C. Kieu, V. Tallapragada, L. R. Bernardet, and E. W. Uhlhorn, 2014: Use of Synthetic Profiles to Diagnose Simulated Tropical Cyclones in Regional Hurricane Models. 31st Conference on Hurricane and Tropical Meteorology, 31 March-4 April 2014, San Diego, CA.
- Voronovich, A. G., and V. U. Zavorotny, 2014: Calculation of K_u- and C-band Polarimetric Azimuthal Dependences of Radar Backscattering from Sea Surfaces. National Radio Science Meeting, 8-11 January, 2014, Boulder, CO.
- Vukicevic, T., 2014: Verification of HWRf with Satellite Observations - HWRf-SatV. Hurricane Research Division, Atlantic Oceanographic and Meteorological Laboratory, Monthly Science Meeting, 10 January, 2014, Miami, FL.
- Vukicevic, T., R. Atlas, B. Annane, L. Bucci, J. Delago, A. Aksoy, K. Sellwood, P. Dodge, B. Williams, F. Marks, S. Majumdar, D. Nolan, and B. McNoldy, 2014: OSSE Group Update. Hurricane Research Division, Atlantic Oceanographic and Meteorological Laboratory, Monthly Science Meeting, 16 February, 2014, Miami, FL.

- Vukicevic, T. and T. Greenwald, 2013: Validation of HWRF Forecasts with Satellite Observations. Tropical Cyclone Research Forum, 67th Interdepartmental Hurricane Conference, 5–8 March, 2013, NOAA Center for Weather and Climate Prediction, College Park, MD.
- Wang, X., 2013: GSI-EnKF Hybrid DA Assimilation Using Airborne Radar in HWRF. Warn-on-Forecast and High Impact Weather Workshop, 5-7 February, 2013, Norman, OK. Wang, X., and X. Lu, 2013: Improving High Resolution Hurricane Forecast Using the GSI-based Hybrid Ensemble-variational Data Assimilation System for HWRF: Test with Sandy 2012. 2nd China-US Symposium on Meteorology, June 25-27, 2013, Qingdao, China.
- Wang, X., X. Lu, Y. Li, M. Tong, V. Tallapragada, J. Whitaker and H. Winterbottom, 2014: Retrospective and Near Real Time Tests of GSI-based EnKF-Var Hybrid Data Assimilation System for HWRF with Airborne Radar Data. 94th American Meteorological Society Annual Conference, 2-6 February, 2014, Atlanta, GA.
- Williams, C. L., M. K. Biswas, B. G. Brown, T. L. Fowler, E. Gilleland, P. A. Kucera, L. B. Nance, and K. M. Newman, 2014: Tropical Cyclone Forecast Verification: Multivariate Attributes and Rapid Intensity Change. 94th American Meteorological Society Annual Meeting, 2-6 February, 2014, Atlanta, GA.
- Willoughby, H. and J. Hernandez, 2014: Hurricanes in Zipfistan. Hurricane Research Division, Atlantic Oceanographic and Meteorological Laboratory, Monthly Science Meeting, 16 February, 2014, Miami, FL.
- Yablonsky, R. M., 2014: HWRF Ocean: The Princeton Ocean Model (POM-TC). WRF for Hurricanes Tutorial, 14-16 January, 2014, College Park, MD.
- Yablonsky, R. M., 2013: Preliminary 2013 HWRF/POM-TC Ocean Diagnostics and Pre-2014 Plans. HFIP Diagnostics Workshop Teleconference, 22 November 2013.
- Yablonsky, R. M., I. Ginis, and B. Thomas, 2013: Advancing NOAA's HWRF Prediction System Through MPIPOM-TC Coupling. NOAA/NCEP/EMC Meeting, 23 October, 2013, College Park, MD.
- Yablonsky, R. M., and I. Ginis, 2013: Critical Importance of Warm Ocean Eddy Location on Hurricane Intensity Forecasts: An Example Using a GODAE Ocean Analysis. Poster. Joint Global Oceanographic Data Assimilation Experiment , OceanView/ Working Group on Numerical Experimentation Workshop, 19-21 March, 2013, College Park, MD.
- Yablonsky, R. M., and I. Ginis, 2013: Impact of a Warm Ocean Eddy's Circulation on Hurricane-induced Sea Surface Temperature Cooling with Implications for Hurricane Intensity Forecasts. Physical Oceanography Seminar, Woods Hole Oceanographic Institution, 2 July 2013, Woods Hole, MA.
- Yongzuo Li, X. Wang, M. Xue and M. Tong, 2013: Assimilation of Airborne Radar Radial Velocity Data with the GSI based EnKF-3DVAR Hybrid System for the Prediction of Hurricane Irene (2011). 93rd American Meteorological Society Annual Conference, 5-9 January 2013, Austin, TX.
- Zavorotny , V. U., E. Valencia, D. M. Akos, and A. Camps, 2013: Ocean Surface Wind Vector Measurements from High-Altitude Aircraft Using GPS Delay-Doppler Maps. National Radio Science Meeting, 8-11 January, 2013, Boulder, CO.
- Zhang, J., 2014: Using Aircraft Observations to Improve PBL Physics of HWRF. Hurricane Research Division, Atlantic Oceanographic and Meteorological Laboratory, Monthly Science Meeting, 16 February, 2014, Miami, FL.

- Zhang, J., S. Gopalakrishnan, F. Marks, R. Rogers, and V. Tallapragada, 2013: A Developmental Framework for Improving Hurricane Model Physical Parameterizations Using Aircraft Observations (Poster). Tropical Cyclone Research Forum, 67th Interdepartmental Hurricane Conference, 5–8 March, 2013, NOAA Center for Weather and Climate Prediction, College Park, MD
- Zhou, C., H. Shao, and L. Bernardet, 2013. Testing and Evaluation of the GSI-Hybrid Data Assimilation and Its Applications for Hurricane Forecasts. 14th Annual Weather Research and Forecasting Workshop, 24-28 June 2013, Boulder, CO. (available at <http://www.mmm.ucar.edu/wrf/users/workshops/WS2013/posters/p9.pdf>)
- Zhou, C., H. Shao, B. J. Etherton, and L. R. Bernardet, 2013: Testing and evaluation of GSI-Hybrid 3DVAR for basin scale HWRF. 17th Conference on Integrated Observing and Assimilation Systems for Atmosphere, Oceans, and Land Surface (IOAS-AOLS), 93rd American Meteorological Society Annual Conference, 5-9 January 2013, Austin, TX.