

Recent Publications (EMC authors in boldface)

2020

Abdolali, A., Roland, A., **Van Der Westhuysen, A.**, Meixner, J., Chawla, A., Hesser, T., Smith, J.M. and M. Dutour Sikiric (2020), Large-scale Hurricane Modeling Using Domain Decomposition Parallelization and Implicit Scheme Implemented in WAVEWATCH III Wave Model, *Coastal Engineering*, **157**, 103656, <https://doi.org/10.1016/j.coastaleng.2020.103656>

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Bakhtyar, R., K. Maitaria, P. Velissariou, B. Trimble , H. Mashriqui, S. Moghimi, **A. Abdolali, A.J. Van der Westhuysen, Z. Ma**, T. Flowers (2020), A new 1D/2D Coupled Modeling Approach for a Riverine-Estuarian System under Storm Events: Application to Delaware River Basin, *Journal of Geophysical Research: Oceans*, <https://doi.org/10.1029/2019JC015822>

Black, T., 2020: A documentation of the NMMB's nesting capabilities and mechanisms. NOAA/NCEP Office Note 503. <https://repository.library.noaa.gov/view/noaa/23887>

Chen, J., J. Z. Wang, **J. Du**, 2020: Forecast bias correction through model integration: A dynamical wholesale approach. *Quart. J. Roy. Meteor. Soc.*, **146**, 1149-1168, <https://doi.org/10.1002/qj.3730>.

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Hao, Z., W. Li, V. P. Singh, **Y. Xia**, X. Zhang, and F. Hao, 2020: Impact of dependence changes on the likelihood of hot extremes under drought conditions in the United States, *J. Hydrol.*, **581**, 124410, <https://doi.org/10.1016/j.jhydrol.2019.124410>.

He, X., T. Xu, **Y. Xia**, S. M. Bateni, Z. Guo, S. Liu, K. Mao, Y. Zhang, H. Feng, and J. Zhao, 2020: Bayesian Three-Cornered Hat (BTCH) Method: Improving the Terrestrial Evapotranspiration Estimation. *Remote Sens.*, **12**, 878. <https://doi.org/10.3390/rs12050878>

Ma, Z., Liu, B., Mehra, A.; Abdolali, A., van der Westhuysen, A., Moghimi, S.; Vinogradov, S., Zhang, Z., Zhu, L., Wu, K., Shrestha, R.; Kumar, A., Tallapragada, V.,

Kurkowski, N., 2020: Investigating the Impact of High-Resolution Land–Sea Masks on Hurricane Forecasts in HWRF. *Atmosphere* 2020, 11(9), 888, <https://doi.org/10.3390/atmos11090888>

Moghimi, S.; **Van der Westhuysen, A.; Abdolali, A.; Myers, E.; Vinogradov, S.; Ma, Z.; Liu, F.; Mehra, A.**; Kurkowski, N. (2020), Development of an ESMF Based Flexible Coupling Application of ADCIRC and WAVEWATCH III for High Fidelity Coastal Inundation Studies. *J. Mar. Sci. Eng.* 2020, 8, 308. <https://doi.org/10.3390/jmse8050308>

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Potvin, C.K., **J.R. Carley**, A.J. Clark, L.J. Wicker, P.S. Skinner, A.E. Reinhart, B.T. Gallo, **J.S. Kain**, G.S. Romine, **E.A. Aligo**, K.A. Brewster, D.C. Dowell, L.M. Harris, I.L. Jirak, F. Kong, T.A. Supinie, K.W. Thomas, X. Wang, Y. Wang, and M. Xue, 2019: Systematic Comparison of Convection-Allowing Models during the 2017 NOAA HWT Spring Forecasting Experiment. *Wea. Forecasting*, **34**, 1395–1416, <https://doi.org/10.1175/WAF-D-19-0056.1>.

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Zhang, Z., M. Tong, J. A. Sippel, **A. Mehra**, B. Zhang, **K. Wu**, **B. Liu**, **J. Dong**, **Z. Ma**, **H. Winterbottom**, **W. Wang**, **L. Zhu**, **Q. Liu**, **H.-S. Kim**, **B. Thomas**, **D. Sheinin**, **L. Bi**, and **V. Tallapragada**, 2020 : The Impact of Stochastic Physics-Based Hybrid GSI/EnKF Data Assimilation on Hurricane Forecasts Using EMC Operational Hurricane Modeling System, *Atmosphere*, **11**, 20 pp. <https://www.mdpi.com/2073-4433/11/8/801/pdf>

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