

# Recent Publications

(Alphabetized by lead author; EMC Federal authors in black boldface, EMC Contractor authors in red boldface; full author affiliations listed in the articles)

2022

**Abdolali, A.**, Hesser, T. J., Bryant, M. A., Roland, A., Khalid, A., Smith, J., Ferreira, C., **Mehra, A.**, and Sikiric, M.D. (2022): Wave Attenuation by Vegetation: Model Implementation and Validation Study. *Front. Built Environ.* 8:891612.  
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Cobb, A., Ralph, F. M., **Tallapragada, V.**, Wilson, A. M., Davis, C. A., Monache, L. D., Doyle, J. D., Pappenberger, F., Reynolds, C. A., Subramanian, A., Black, P. G., Cannon, F., Castellano, C., Cordeira, J. M., Haase, J. S., Hecht, C., Kawzenuk, B., Lavers, D. A., Murphy, M. J., Jr., Parrish, J., Rickert, R., Rutz, J. J., Torn, R., **Wu, X.**, & Zheng, M., 2022. Atmospheric River Reconnaissance 2021: A Review, *Weather and Forecasting*, <https://journals.ametsoc.org/view/journals/wefo/aop/WAF-D-21-0164.1/WAF-D-21-0164.1.xml>

Deb, M., **Abdolali, A.**, Kirby, J. T., & Shi, F. (2022). Hydrodynamic modeling of a complex salt marsh system: Importance of channel shoreline and bathymetric resolution. *Coastal Engineering*, 104094, 173,  
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Dowell, D. C., Alexander, C. R., James, E. P., Weygandt, S. S., Benjamin, S. G., **Manikin, G. S.**, **Blake, B. T.**, Brown, J. M., Olson, J. B., Hu, M., Smirnova, T. G., Ladwig, T., Kenyon, J. S., Ahmadov, R., Turner, D. D., Duda, J. D., & Alcott, T. I. (2022). The High-Resolution Rapid Refresh (HRRR): An Hourly Updating Convection-Allowing Forecast Model. Part 1: Motivation and System Description, *Weather and Forecasting*, 37(8), 1371-1395.  
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**Guan, H.**, **Zhu, Y.**, **Sinsky, E.**, **Fu, B.**, **Li, W.**, **Zhou, X.**, **Xue, X.**, **Hou, D.**, Peng, J., Nageswararao, M. M., **Tallapragada, V.**, Hamill, T. M., Whitaker, J. S., Bates, G., Pegion, P., Frederick, S., Rosencrans, M., and Kumar, A., 2022: GEFSv12 reforecast dataset for supporting subseasonal and hydrometeorological applications, *Monthly Weather Review*. 150(3), 647-665.  
<https://journals.ametsoc.org/view/journals/mwre/150/3/MWR-D-21-0245.1.xml>

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for the Global Ensemble Forecast System, version 12. *Monthly Weather Review*, 150(1), 59-79.

<https://journals.ametsoc.org/view/journals/mwre/150/1/MWR-D-21-0023.1.xml>

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**Kim, H-S., Meixner, J.**, Thomas, B., Reichl, B., **Liu, B., Mehra, A.**, & Wallcraft, A. (2022). Skill Assessment of NCEP Three-way Coupled HWRF-HYCOM-WW3 Modeling System: Hurricane Laura Case Study, *Weather and Forecasting*, 37(8), 1309-1331.

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**Zhou, X.**, **Yuejian Zhu**, **D. Hou**, **B. Fu**, **W. Li**, **H. Guan**, **E. Sinsky**, **W. Kolczynski**, **X. Xue**, **Y. Luo**, **J. Peng**, **B. Yang**, **V. Tallapragada**, and P. Pegion, 2022: The Development of the NCEP Global Ensemble Forecast System Version 12. *Weather and Forecasting*, 38(6), 1069-1084.

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## 2021

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**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

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