

# 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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Banes, I. H., W. D. Mayfield, G. Ge, L. F. Sapucci, **J. R. Carley**, L. Nance, 2022: Assessment of the data assimilation framework for the Rapid Refresh Forecast System v0.1 and impacts on forecasts of convective storms. *Geosci. Model Dev.*, **15**.  
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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>

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<https://doi.org/10.1016/j.coastaleng.2022.104094>.

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**Du, J.**, and G. Deng. 2022: How Should a Numerical Weather Prediction Be Used: Full Field or Anomaly? A Conceptual Demonstration with a Lorenz Model. *Atmosphere* **13(9)**: 1487. <https://doi.org/10.3390/atmos13091487>

**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., & Kumar, A., 2022: GEFSv12 reforecast dataset for supporting subseasonal and hydrometeorological applications, *Monthly Weather Review*. <https://doi.org/10.1175/MWR-D-21-0245.1>

Hamill, T., Whitaker, J. S., Shlyueva, A., Bates, G., Fredrick, S., Pegion, P., **Sinsky, E., Zhu, Y., Tallapragada, V., Guan, H., Zhou, X.,** and **Woollen, J.** (2022). The Reanalysis for the Global Ensemble Forecast System, version 12. *Mon. Wea. Rev.*, **150(1)**, 59-79. <https://doi.org/10.1175/MWR-D-21-0023.1>

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James, E. P., Alexander, C. R., Dowell, D. C., Weygandt, S. S., Benjamin, S. G., **Manikin, G. S.,** Brown, J. M., Olson, J. B., Hu, M., Smirnova, T. G., Ladwig, T., Kenyon, J. S., & Turner, D. D. (2022). The High-Resolution Rapid Refresh (HRRR): An Hourly Updating Convection-Allowing Forecast Model. Part 2: Forecast Performance, *Weather and Forecasting*, <https://journals.ametsoc.org/view/journals/wefo/aop/WAF-D-21-0130.1/WAF-D-21-0130.1.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*, <https://journals.ametsoc.org/view/journals/wefo/aop/WAF-D-21-0191.1/WAF-D-21-0191.1.xml>

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**Purser, R. J., Rancic, M., & De Pondeca, M. S. F. V.**, 2022: The Multigrid Beta Function Approach for Modeling of Background Error Covariance in the Real-Time Mesoscale Analysis (RTMA). *Monthly Weather Review*. <https://doi.org/10.1175/MWR-D-20-0405.1>

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