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

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

Hamill, T., Whitaker, J. S., Shlyaeva, 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>

**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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**Abdolali, A**., **Van Der Westhuysen, A., Ma, Z., Mehra, A.,** Roland, A., and Moghimi, S., 2021: Evaluating the accuracy and uncertainty of atmospheric and wave model hindcasts during severe events using model ensembles. *Ocean Dynamics*, **71**, 19 pp. <https://doi.org/10.1007/s10236-020-01426-9> or <https://rdcu.be/cdfjB>

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Boukabara, S., **Krasnopolsky, V.**, Penny, S. G., Stewart, J. Q., McGovern, A., Hall, D., Ten Hoeve, J. E., Hickey, J., Allen Huang, H., Williams, J. K., Ide, K., Tissot, P., Haupt, S. E., Casey, K. S., Oza, N., Geer, A. J., Maddy, E. S., and Hoffman, R. N., 2021: Outlook for Exploiting Artificial Intelligence in the Earth and Environmental Sciences, *Bull. Amer. Meteor. Soc.*, **102**, E1016-E1032. <https://doi.org/10.1175/BAMS-D-20-0031.1>

Brus, S. R., Wolfram, P.J., Van Roekel, L.P., and **Meixner, J.D.**, 2021: Unstructured global to coastal wave modeling for the Energy Exascale Earth System Model using WAVEWATCH III version 6.07. *Geosci. Model Dev.*, **14,** 2917-2938. <https://doi.org/10.5194/gmd-14-2917-2021>

**Carley, J. R.**, M. Matthews, **M. T. Morris**, **M. S. F. V. De Pondeca**, J. Colavito, and **R. Yang**, 2021: Variational assimilation of web camera-derived estimates of visibility for Alaska aviation. *Experimental Results*, **2,** e14. <http://dx.doi.org/10.1017/exp.2020.66>

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**Zhang, Z.**, J. A. Zhang, G. J. Alaka, Jr., **K. Wu**, **A. Mehra**, and **V. Tallapragada,** 2021: A Statistical Analysis of High Frequency Track and Intensity Forecasts from NOAA’s Operational Hurricane Weather Research and Forecast (HWRF) Modeling System, *Monthly Weather Review,* **149,** 3325-3339**.** <https://doi.org/10.1175/MWR-D-21-0021.1>

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