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>.

**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., 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>

Kamenkovich, I., and **Z. Garraffo**, 2022: Importance of Mesoscale Currents in Amoc Pathways and Timescales. *Journal of Physical Oceanography*, <https://doi.org/10.1175/JPO-D-21-0244.1>

Nageswararao, M. M, **Yuejian Zhu**, and **V. Tallapragada**, 2022: Prediction Skill of GEFSv12 for Southwest Summer Monsoon Rainfall and Associated Extreme Rainfall Events on Extended Range scale over India. *Weather and Forecasting*. <https://doi.org/10.1175/WAF-D-21-0184.1>

**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>

Qian, W., and **J. Du**, 2022: Anomaly Format of Atmospheric Governing Equations with Climate as a Reference Atmosphere. *Meteorology* **1(2)**, 127-141. [https://doi.org/10.3390/meteorology1020008](https://doi.org/10.3390/meteorology1020008" \t "_blank)

Qian, W., J. C.-H. Leung, J. Ren, **J. Du**, Y. Feng, and B. Zhang, 2022: Anomaly Based Synoptic Analysis and Model Prediction of Six Dust Storms Moving From Mongolia to Northern China in Spring 2021. *J. Geophysical Research: Atmosphere.* **127(7)**. <https://doi.org/10.1029/2021JD036272>

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Slivinski, L. C., **Lippi, D. E.**, Whitaker, J. S., Ge, G., **Carley, J. R.**, Alexander, C. R., and Compo, G. P. (2022). Overlapping Windows in a Global Hourly Data Assimilation System, *Monthly Weather Review*, <https://doi.org/10.1175/MWR-D-21-0214.1>

**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*, <https://doi.org/10.1175/WAF-D-21-0112.1>

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