

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., 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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Belochitski, A., and **V. Krasnopolsky**, 2021: Robustness of neural network emulations of radiative transfer parameterizations in a state-of-the-art general

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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>

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Mukhopadhyay, P., Bechtold, P., **Zhu, Y.**, Murali Krishna, R. P., Kumar, S., Ganai, M., Turkey, S., Goswami, T., Mahakur, M., Deshpande, M., Prasad, V. S., Johny, C. J., Mitra, A., Ashrit, R., Sarkar, A., Sarkar, S., Roy, K., Andrews, E., Kanase, R., Malviya, S., Abhilash, S., Domkawale, M., Pawar, S. D., Mamgain, A., Durai, V. R., Nanjundiah, R. S., Mitra, A. K., Rajagopal, E. N., Mohapatra, M., & Rajeevan, M., 2021: Unraveling the Mechanism of Extreme (More than 30 Sigma) Precipitation during August 2018 and 2019 over Kerala, India, *Weather and Forecasting*, **36(4)**, 1253-1273. <https://doi.org/10.1175/WAF-D-20-0162.1>

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