# 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)

### 2021

- **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. <a href="https://doi.org/10.1007/s10236-020-01426-9">https://doi.org/10.1007/s10236-020-01426-9</a> or <a href="https://rdcu.be/cdfjB">https://rdcu.be/cdfjB</a>
- Black, T. L., J. A. Abeles, B. T. Blake, D. Jovic, E. Rogers, X. Zhang, E. A. Aligo, L. C. Dawson, Y. Lin, E. Strobach, P. C. Shafran, and J. R. Carley, 2021: A Limited Area Modeling Capability for the Finite-Volume Cubed-Sphere (FV3) Dynamical Core and Comparison with a Global Two-Way Nest. *Journal of Advances in Modeling Earth Systems*, 13(6), https://doi.org/10.1029/2021MS002483
- 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., & Hoffman, R. N., 2021: Outlook for Exploiting Artificial Intelligence in the Earth and Environmental Sciences, *Bull. Amer. Meteor. Soc.* **102**, E1016-E1032. <a href="https://doi.org/10.1175/BAMS-D-20-0031.1">https://doi.org/10.1175/BAMS-D-20-0031.1</a>
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- **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. <a href="http://dx.doi.org/10.1017/exp.2020.66">http://dx.doi.org/10.1017/exp.2020.66</a>
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- Hazelton, A., **Z. Zhang, B. Liu, J. Dong**, G. Alaka, **W. Wang**, T. Marchok, **A. Mehra**, S. Gopalakrishnan, X. Zhang, M. Bender, **V. Tallapragada**, and F. Marks, 2021: 2019 Atlantic Hurricane Forecasts from The Global-Nested Hurricane Analysis and Forecast System: Composite Statistics and Key Events. *Wea. Forecasting*, **36**, 519-538. https://doi.org/10.1175/WAF-D-20-0044.1

- Huang, B., X. Wang, **D. T. Kleist**, and **T. Lei**, 2021: A simultaneous multiscale data assimilation using scale-dependent localization in GSI-based hybrid 4DEnVar for NCEP FV3-based GFS, *Mon. Wea. Rev.*, **149**, 479-501, <a href="https://doi.org/10.1175/MWR-D-20-0166.1">https://doi.org/10.1175/MWR-D-20-0166.1</a>
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# 2019

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