Program for the Joint WRF/MPAS Users’ Workshop 2020 (Virtual)

Location: online

Date: 8 – 9 June 2020

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| Monday, 8 June, 1:00 – 3:30 (All times are Mountain times)  **WRF Lecture Series: Learning about Scale-Aware Physics**  Chair: Jimy Dudhia | |
| 1:00 – 1:15 | An Introduction to Scale-Aware Physics.  Dudhia, J., *Mesoscale and Microscale Meteorology Laboratory (MMM),* *National Center for Atmospheric Research (NCAR)* |
| 1:15 – 1:45 | Deep, middle, low, and dx: almost resolving convection but not quite…  Grell, G., *Global System Laboratory,* *Earth System Research Laboratories (ESRL), National Oceanic and Atmospheric Administration (NOAA)* |
| 1:45 – 2:15 | Dependence of deep convection schemes on horizontal grid-spacing in MPAS: Difference in formulation, impact on forecasts.  Fowler, L., *MMM/NCAR* |
| 2:15 – 2:30 | Break |
| 2:30 – 3:00 | A Scale-Aware Treatment of Subgrid Mixing in the WRF Model.  Bao, J.-W., *Physical Science Laboratory, ESRL/NOAA* |
| 3:00 – 3:30 | Representation of turbulent mixing in the atmospheric boundary layer at gray-zone grid spacings and its applications for idealized and real-case WRF.  Shin, H.-Y., *Research Application Laboratory (RAL), NCAR* |
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| Tuesday, 9 June, 1:00 – 3:00 (All times are Mountain times)  **Annual Model Development Updates**  Chair: Jordan Powers | |
| 1:00 – 1:15 | Introduction  Klemp, J., *MMM/NCAR* |
| 1:15 – 1:35 | The Weather Research and Forecasting Model: 2020 Annual Update.  Dudhia, J., *MMM/NCAR* |
| 1:35 – 1:50 | WRFDA 2020 Updates  Liu, J., *MMM/NCAR* |
| 1:50 – 2:05 | WRF-Chem V4.2: A summary of status, updates and applications.  Schnell, J., *CIRES, University of Colorado, Boulder, GSD/ESRL/NOAA* |
| 2:05 – 2:15 | Break |
| 2:15 – 2:30 | The Model for Prediction Across Scales - Atmosphere: A GPU release, progress on the development of earth system model capabilities, and coming deep atmosphere extensions.  Skamarock, W., *MMM/NCAR* |
| 2:30 – 2:45 | Recent developments in Noah-MP, its public repository, and initial results from the new WRF-CTSM coupled model.  Chen, F., *RAL/NCAR,* M. Barlage, P. Valayamkunnath, D. Lawrence, N. Sobhani, B. Sacks, *NCAR*, and S. Levis *(Sam Levis Consulting)* |
| 2:45 – 3:00 | Sharing Physics Between WRF and MPAS with CCPP.  Gill, D., *MMM/NCAR,* L. Fowler, M. Chen, C. Craig, J. Dudhia, S. Goldhaber, J. Jang, W. Wang, and K. Werner |
| 3:00 – 3:15 | Q&A |