

2.4 Progress towards a regional capability in MPAS-Atmosphere.

Duda, Michael, William Skamarock, Soyoung Ha, *National Center for Atmospheric Research*, and Sang-Hun Park, *Yonsei University, South Korea*

In the most recent major release of MPAS – version 6.0 – the MPAS-Atmosphere model is capable of operating only as a global model for real-data simulations. However, recent work has culminated in the development of a limited-area modeling capability in MPAS-Atmosphere. In this talk we will describe the current state of this limited-area capability, and we will show results that argue for the use of variable-resolution meshes in regional simulations. Additionally, we will lay out a path to the eventual release and support of this capability to the community.