



ALADIN Limited Area Ensemble Forecasting (LAEF)

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Scientific and computational limitations prevent us from constructing a perfect NWP model of real systems. Small errors in the initial condition, in the boundary conditions, in the model, e.g. physics and dynamics, can grow exponentially and eventually render a forecast useless. For dealing with those uncertainties, we have implemented an experimental ALADIN regional EPS system LAEF (Limited Area Ensemble Forecasting). Works have been focused on the initial condition perturbation, impact of the uncertainty on the lateral boundary conditions. ALADIN dynamical downscaling of ARPEGE global EPS system PEARP, and ALADIN multi-physics downscaling have been also investigated. The results will be presented at the conference.