



COSMO-DE-EPS – operational status and planned upgrades

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The convection-permitting ensemble COSMO-DE-EPS is running operationally at DWD. The currently 20 members are generated by applying variations to initial and boundary conditions based on dynamically downscaled forecasts of four global models. Additionally, the model physics of COSMO-DE are perturbed by a non-stochastic approach. In analogy to the deterministic run of COSMO-DE, the COSMO-DE-EPS has a three-hourly update cycle with forecasts up to 21 hours on a 2.8 km grid.

An overview of recent developments will be given, with focus on developments having the potential to reach operational status soon. Current work looks into an upgrade to 40 members, the inclusion of the time-lagged approach, and statistical post-processing of precipitation.