



Representation of initial conditions in the MOGREPS-UK ensemble

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MOGREPS-UK is the Met-Office 2.2km, 36-hour ensemble for the UK area, which was implemented in Summer 2012. MOGREPS-UK is currently a 12 member ensemble, nested within the ~ 32 km global ensemble MOGREPS-G, and the initial conditions are directly downscaled from the global ensemble.

We investigate the performance of this new system, with emphasis on the benefits of a high-resolution model, using case studies, standard verification methods and also neighborhood methods. We then go on to investigate the benefit of recentering the downscaled global perturbations around a central analysis and also of cycling perturbations from previous MOGREPS-UK forecasts.