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Severe Weather Warnings from MOGREPS

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The North Atlantic and European (NAE) component of the Met Office ensemble prediction system (MOGREPS - 18km horizontal resolution out to T+54h) has been used to produce a trial probabilistic first-guess warning system for severe weather (MOGREPS-W). MOGREPS-W issues severe and extreme weather warnings for all 147 county/unitary authority areas in the UK, using criteria from the National Severe Weather Warning Service (NSWWS). The aim of MOGREPS-W is to give Met Office forecasters advanced warning of upcoming severe weather, thus hopefully increasing the lead time of any publicly issued weather warnings. It is also hoped the forecast system will give a more objective basis for assessing risk and making probability statements. Initial verification results show that MOGREPS-W has a tendency to under forecast some severe events, caused by limitations associated with the relatively course resolution of the model. Experiments with calibration against the Met Office 2km resolution model analysis are in progress and initial results will be presented along with recent case-studies of severe weather events forecast by MOGREPS-W.