



Evaluation of climate extremes in transient runs with the new Rossby Centre regional atmospheric model

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The new version of the Rossby Centre atmospheric regional climate model, RCA3, includes a new land surface scheme and substantial updates to several other components. A set of transient simulations has recently been completed using this model: a model evaluation run where lateral boundary conditions were taken from the ERA40 dataset, and two climate change simulations using boundary data from the ECHAM4 SRES A2 and B2 simulations. After a brief summary of some key features of the model we compare selected indices of climate extremes. We compare the climate change simulations to the ERA40 run, and also use station data from the new ECA dataset. The focus is on temperature extremes, but we also touch upon precipitation and wind extremes.