



The impact of resolving the stratosphere in Met Office Earth System Model simulations

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Simulations and future projections from versions of the Met Office Hadley Centre earth system model with and without a well resolved stratosphere are analysed for the period 1860-2100. The coupling between the stratosphere and surface climate and variability is investigated along with the influence of the stratosphere on climate change projections. Where possible the results will be compared with those from other CMIP5 model simulations that also include a well resolved stratosphere.