

FIRST WRF-NOAH CORDEX-EUROPE REGIONAL CLIMATE SIMULATION FROM 1990-2008 AT 0.11° RESOLUTION

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In order to provide high-resolution ensembles and comparisons of regional climate simulations, the World Climate Research Program (WCRP) initiated the COordinated Regional climate Downscaling Experiment (CORDEX, http://wcrp.ipsl.jussieu.fr/SF_RCD_CORDEX.html). The verification run is performed for a 20-year period (1989-2009) driven by ERA-interim data. It is available from 1989 onwards on a T255 spectral grid (approx. 0.75°). To date simulations from various institutions running various regional climate models (WRF, REMO, CCLM, RCA) for the CORDEX domain Europe at 0.11° are currently completed or running. The results are currently under evaluation in all groups. Here we present our results from the first completed WRF-NOAH ERA-interim forced simulation on 0.11° for Europe within the scope of CORDEX. The advanced research version 3.1.0 of the Advanced Research Version of the Weather and Research Forecast (WRF) model has been set up for the model domain. The evaluation focuses on Germany due to the availability of high resolution precipitation and temperature data from the German Weather Service for the simulation period.