



The Project ReKliEs-De: Complementing EURO-CORDEX with high-resolution dynamical and statistical simulations

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Within the German project ReKliEs-De (Regional Climate change Ensemble simulations for Germany) the existing EURO-CORDEX simulations are systematically complemented by further simulations: ReKliEs-De contributed 12 dynamical and 16 statistical simulations. Altogether 37 Simulation using RCP8.5 and 14 Simulations using RCP2.6 are analyzed from the combined EURO-CORDEX and ReKliEs-De Ensemble. The dynamical simulations cover the EURO-CORDEX domain, the statistical simulations cover Germany and the catchments of large rivers draining into Germany. All simulation results are provided on the standard EURO CORDEX grid with 0.11° horizontal resolution. As a service to the users, several indices (24 indices, mainly from the ETCCDI list of 'moderate extremes') are already calculated and provided as data files as well as graphics.

Explicit bias correction is applied to rainfall quantities and can be downloaded, too. For indices with fixed threshold exceedance (e.g. heat days, summer days, frost days), the thresholds are adjusted using an 'implicit' method.

ReKliEs-De provides consistent and user-tailored information for federal agencies and climate impact and adaption research. All project results are graphically processed and can be accessed freely. This forms the new data basis for climate change assessment. It is a new level of information provision and presentation of climate change results.

The presentation will briefly introduce the transdisciplinary background and structure of the project, will present the performed simulations, introduce the bias-correction methods and guide potential users to the project output.