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Simulation and predictability of present day climate

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Climate influences society in many important ways. The aim of this project is to improve our understanding of the mechanisms for present day climate variability and predictability, and to reduce model systematic error. These will in turn help to reduce uncertainty in the projections of future climate. A particular focus of the work is decadal-to-multidecadal variability of the North Atlantic/European sector, a region of obvious relevance to Germany.

Climate models are at the heart of this project, and a suite of state-of-the-art models will be used to study various problems related to climate variability and predictability. This work, by definition, relies heavily on high performance computing, and the resources made available at HLRN are essential to our activities. This type of work, which involves model development and testing, also requires long-term availability of stable high performance computing resources. Thus, we envisage this project to have an indefinite term, for which resources will be applied for on a yearly basis, together with a progress report.