



Drivers of mean climate change in the Netherlands derived from CMIP5

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An update of the regional climate change scenarios for the Netherlands, known as KNMI'06, is being prepared. This update utilizes the extensive modelling results from the CMIP5 model ensemble in support for the 5th IPCC assessment due in 2013. In addition, a new procedure is developed to extract governing steering variables from these projections that can be translated into regional climate change indicators. The steering variables appreciate the sensitivity of local climate to large scale circulation changes and to the uncertain evolution of the global mean temperature, that is also expressed in a specific regional pattern. The definition of the steering variables is illustrated, along with a quantitative example of the application of these variables for a local climate assessment extracted from a subset of CMIP5 projections.