



The cascade approach – influence of the driving model's resolution on the results of an Empirical Statistical Downscaling method

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There are several pathways to obtain regional climate information: (i) using the output of a Global Climate Model (GCM), (ii) using a Regional Climate Model (RCM) nested into a GCM, (iii) using an Empirical Statistical Downscaling (ESD) method which extracts large scale information from a GCM or (iv) using a GCM-RCM-ESD chain. (i) Is of limited applicability on the regional scale and (ii) to (iv) are so-called model cascades. A rationale for exploring these cascades as well as results concerning the relevance of the driving models' scale for a multitude of regional climate parameters will be shown.