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Precipitation Spectrum Validation in Regional Climate Models

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The realism of regional climate models needs to go beyond reproduction of average quantities. In the European ENSEMBLES project there is an aim to construct a weighting of regional models in order to facilitate the coinstruction of probability densities of climate change. This weighting could be designed such that not just the bias of average quantities were considered, but that the realism of the model's entire probability distribution of events was taken into account.

Based on daily model output from a range of regional climate models from the PRU-DENCE and ENSEMBLES databases, regional spectra of daily precipitation are constructed, normalized, and compared to reality. The possibility of including such a measure into a definition of a model weight is investigated.