

Interactive comment on “High-resolution Med-CORDEX regional climate model simulations for hydrological impact studies: a first evaluation in Morocco” by Y. Tramblay et al.

Anonymous Referee #2

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The paper is in general well written, although some work on the English seems to be necessary. For instance, 2.2.1 par. 20- "Contrary to the globe, the domain is not periodic" could be replaced by "contrary to the global model Arpege, the RCM grid is not periodic" 2.2.2 "the best possible" by "the most realistic representation of the climate of the simulated period "

Some points about the text: 1. The region of study shows a complex orography and in order to explore the influence of resolution could be more insightful a 25 km simulation. 2. In the paper Saeed, F., Hagemann, S., Saeed, S., & Jacob, D. (2013). Influence of mid-latitude circulation on upper Indus basin precipitation: the explicit role of irrigation.

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Climate Dynamics, 40, 21-38. doi:10.1007/s00382-012-1480-3. is shown that evapotranspiration from water masses, including irrigation could be important for a good simulation of precipitation. It is not clear in the text if this fact has been explored in this paper. 3. For model validation, given the scarcity of observations, some high resolution gridded datasets as E-OBS, TRMM, CMORPH, PERSIANN, etc might have been used 4. A more detailed description of methodology in section 3 could facilitate the reading of the text

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