

## ***Interactive comment on “Characteristics of rainfall events in RCM simulations for the Czech Republic” by V. Svoboda et al.***

### **Anonymous Referee #1**

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#### General comments

The paper evaluates the performance of an ensemble of regional climate models (RCMs) for simulation of heavy rainfall events for the Czech Republic. In recent years, a large number of papers have performed similar analyses of the performance of RCMs by (i) considering different RCMs with different spatial resolutions, (ii) studying different regions of the world, and (iii) analysing a range of rainfall characteristics.

Much of this work has been referred to and discussed in the paper. However, the purpose of the current study and its contribution compared to state-of-the-art in this area is not clear. The authors state that “Characteristics of individual heavy rainfall events (such as event depth, duration, and intensity) in RCM simulations have not been studied to date” (Page 2, line 25-26). The authors may define rainfall characteristics

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differently than what has been done in other studies, but the novelty of this compared to the range of other rainfall characteristics that have been analysed in similar studies seems limited. This is confirmed by the fact that the main findings of the study do not provide any convincing new insights. In the Discussion (Section 5.3) the authors discuss their results and compare with previous studies. Basically, all their findings are in agreement with previous studies.

#### Detailed comments

The results are not presented in a clear and concise way. The Results section provides a detailed enumeration of results shown in the figures. This part should be more to the point and focus on main results.

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