

Interactive comment on “Spatial and temporal variability of clouds and precipitation over Germany: multiscale simulations across the “gray zone”” by C. Barthlott and C. Hoose

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We thank the reviewer for reading the manuscript and his helpful comments. We will address all remarks in a more detailed response later, but would like to respond briefly to the main concerns already right now.

The reviewer was disappointed to find that no HDCP2-observations are used. However, this was not the goal of our study. At first, we want to focus on the resolution dependence of the COSMO model for various HOPE-IOPs and an additional summer-time case. As was already mentioned in the manuscript, the comparison with more

C5635

observations and a systematic model evaluation is left for future work. The incorporation of such an evaluation would blast the length of the present manuscript.

The second main concern of the reviewer is the fact that no direct cloud-related variables are analyzed. We agree with the reviewer and are currently working on incorporating additional results in the revised version.

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