

Interactive comment on “Large-eddy simulation of organized precipitating trade wind cumulus clouds” by A. Seifert and T. Heus

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Dear Rit Carbone and Rochell Sherman,

Thanks for this interesting comment and the reference to the paper. We will maybe include a reference to your paper in the revised version to discuss that SST patches may indeed contribute to the observed mesoscale cloud structures.

Nevertheless, it is in our opinion quite remarkable that the LES develops mesoscale cloud structures which look very much like the observed cloud fields, although the forcing and the lower boundary conditions in the LES are perfectly homogeneous. It will be an interesting and challenging task for the observations community to sort out which processes are actually dominant in reality.

Best regards, Axel Seifert

Interactive comment on Atmos. Chem. Phys. Discuss., 13, 1855, 2013.

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