

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

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There is strong evidence that mesoscale SST gradients generally and the Laplacian of SST field specifically are preferentially associated with excitation of moist convection. Such gradients are often arc- or ring- like in shape on scales of 50-200 km.

For details of theory and quantitative evaluation, see Li, Y. and R. E. Carbone, 2012: Excitation of Rainfall Over the Tropical Western Pacific, *J. Atmos. Sci.* 69, 10, 2983-2994.

Some of these data are in a tradewind regime, while others are equatorial.

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C582

Please also note the supplement to this comment:

<http://www.atmos-chem-phys-discuss.net/13/C582/2013/acpd-13-C582-2013-supplement.pdf>

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