

***Interactive comment on “Sensitivity of the WRF model to the lower boundary in an extreme precipitation event – Madeira Island case study” by J. C. Teixeira et al.***

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This is indeed a very interesting paper on the sensitivity of the WRF model to such extreme conditions. I believe it will be of help when using the model to try account for similar cases, for example in the Mediterranean. The modeling progresses will certainly come from very high resolutions and thus need to take into account the effects described in the paper. Just for information, the authors may want to take a look at a recent paper depicting the orographic effect on precipitation as estimated from satellite passive microwave data during the same Madeira 2010 event:

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Levizzani, V., S. Laviola, E. Cattani, and M. J. Costa, 2013: Extreme precipitation on the Island of Madeira on 20 February 2010 as seen by satellite passive microwave sounders. *European J. Remote Sensing*, 46, 475-489, doi: 10.5721/EuJRS20134628.

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