

Interactive comment on “MM5 v3.6.1 and WRF v3.2.1 model comparison of standard and surface energy variables in the development of the planetary boundary layer” by C.-S. M. Wilmot et al.

Anonymous Referee #1

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The authors compare surface fluxes and PBL heights from one MM5 simulation and one WRF Version 3.2.1 simulation with observations. Although nicely presented, the paper needs definitely major revisions (including additional simulations) before it can be published in GMD.

The authors use for their comparison a version of WRF that is almost four years old - they could have used at least version 3.5. They also test only one PBL scheme for their inter-comparison and draw quite general conclusions from this single simulation for a very short episode. Besides of this, the used PBL scheme is considered as obsolete in WRF and labeled as 'to be removed in the future'.

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Therefore, I think it is absolutely necessary to redo the study with a more recent version of WRF and also test more PBL schemes in order to be of more general interest and thus justify publication in GMD. Due to the very short episode that is studied, this should be easily possible.

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