

Interactive comment on “Modelling the partitioning of ammonium nitrate in the convective boundary layer” by J. M. J. Aan de Brugh et al.

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Besides the improvements proposed by the reviewers, we decided to make a few additional changes.

E. P. Weijers has been added as co-author for the MARGA data. Also, C. C. van Heerwaarden has been added as co-author (promotion from acknowledgements to co-authorship) for his programming work on the column model.

In the model description, we specified that the diffusion is determined implicitly and that the soil is represented with four layers. Also, a reference to Wicker and Skamarock (2002) is added where the third-order Runge-Kutta system is mentioned. In that article, this integration method is evaluated.

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On several occasions, we used the verb 'simulate', where the verb 'model' is more appropriate. This has been corrected. Also, the word 'in' has been used too many times. On several spots, it has been substituted with another word.

An acknowledgement for the aircraft data is added.

Reference

Wicker, L. J. and Skamarock, W. C.: Time splitting methods for elastic models using forward time schemes, *Mon. Wea. Rev.* 130, 2088–2097, doi:10.1175/1520-0493(2002)130<2008:TSMFEM>2.0.CO;2, 2002. (new)

Interactive comment on Atmos. Chem. Phys. Discuss., 11, 28273, 2011.

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