

Interactive comment on “Conceptual study on nucleation burst evolution in the convective boundary layer – Part IV: Comparison with previous observations” by O. Hellmuth

Anonymous Referee #1

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Overall comments in "comments for Paper I"

Conceptual study on nucleation burst evolution in the convective boundary layer - Part IV: Comparison with previous observations O. Hellmuth

This as a very good, well-written and interesting article. Some comments and questions below.

Page 11561, whole section: Could you also comment new nucleation parameterization (in the light of your model results) given by S. Hyvönen, H. Junninen, L. Laakso, M.

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Interactive Discussion

Discussion Paper

Dal Maso, T. Grönholm, B. Bonn, P. Keronen, P. Aalto, V. Hiltunen, T. Pohja, S. Launiainen, P. Hari, H. Mannila, M. Kulmala "A look at aerosol formation using data mining techniques " Atmos. Chem. Phys., 5, 3345-3356, 2005

Page 11569, line 1->: In Hyytiala conditions it is found that concentration of sulphuric acid is too low to explain the observed growth.

M. Boy, M. Kulmala, T. M. Ruuskanen, M. Pihlatie, A. Reissell, P. P. Aalto, P. Keronen, M. Dal Maso, H. Hellen, H. Hakola, R. Jansson, M. Hanke, F. Arnold "Sulphuric acid closure and contribution to nucleation mode particle growth " Atmos. Chem. Phys., 5, 863-878, 2005

Since growth from 1 to 3 nm is a crucial part in new particle formation, organics very probable have at least some importance in new particle formation. This is in contrast with statement given in this article. How the author would explain this contrast?

Page 11569, line 15: derived => derive?

References, page 11579, line 10: Year for citation Birmili et al., number 3 is missing.

Interactive comment on Atmos. Chem. Phys. Discuss., 5, 11557, 2005.

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