

Interactive comment on “Conceptual study on nucleation burst evolution in the convective boundary layer – Part II: Meteorological characterization” by O. Hellmuth

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1. General remarks to referee 1-3 (RC1,RC2,RC3)

I would like to thank all three referees very much for carefully scrutinising the manuscript, especially for the time they spent.

For the arguments already given in part I, the title will be changed as follows:

Columnar modelling of nucleation burst evolution in the convective boundary layer - First results from a feasibility study. Part II: Meteorological characterisation

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2. Response to specific comments of RC1

1. RC1: Page 11490, line 17; "observed"
AC: Subject of technical revision. Will be corrected in the final version. Thanks.
2. RC1: Figs. 2e & f, Fig.1: Units for water vapour mixing ratio and RH should be changed.
AC: Subject of technical revision. Will be corrected in the final version. Thanks.
3. RC1: Page 11493, line 9: "later on"
AC: Subject of technical revision. Will be corrected in the final version. Thanks.
4. RC: Page 11497, line 25: "where"
AC: Technical revision. Will be corrected in the final version. Thanks.
5. RC: Page 11503, line 14: "maximum"
AC: Technical revision. Will be corrected in the final version. Thanks.
6. RC: Fig. 7c; Temperature or potential temperature?
AC: The annotation inside the graph is correct. The annotation in the caption must be changed. Temperature is shown. Will be corrected in the final version. Thanks.

Interactive comment on Atmos. Chem. Phys. Discuss., 5, 11489, 2005.

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