

Interactive
Comment

Interactive comment on “New particle formation events measured on board the ATR-42 aircraft during the EUCAARI campaign” by S. Crumeyrolle et al.

Anonymous Referee #1

Received and published: 9 June 2010

In this work the authors investigate horizontal and vertical extents of new particle formation events in the atmosphere and how the events are influenced by air mass origins and other environmental factors.

The work presents new experimental evidence that new particle formation does not extend beyond the boundary layer and hints that the events are initiated not only on the ground but frequently in higher parts of the boundary layer as well. Understandably, the sample size is small and further studies will give more confident results.

The results are significant and I recommend the manuscript for publication.

There are some minor specific comments:

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1. The sentence on page 9338 lines 18 – 19 could be reworded to make it clearer.
2. The word “contain” on page 9339 line 7 is probably an error.
3. The word “Then” on page 9340 line 13 seems superfluous.
4. Figure 2 is missing sub-figure letters.

Interactive comment on Atmos. Chem. Phys. Discuss., 10, 9329, 2010.

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