

Interactive comment on “Waterfalls as sources of small charged aerosol particles” by L. Laakso et al.

L. Laakso et al.

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Reply to referee 1:

First of all, we are grateful for the reviewers for providing information about earlier studies unknown for us. Reading the corresponding articles greatly improved both our knowledge and this paper as well.

More detailed replies given below:

Referee 1:

1. Despite the suggestion to change the title of our article, we prefer to keep the existing one, after testing it with several colleagues outside our own department.
2. Discussion about earlier work, related especially on sea spray and bubbles was

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added to the text.

3. The referee asked about the significance of waterfall-produced ions on atmosphere. To answer straightforwardly: we suppose that the spatial scale of waterfall ions is relatively small, maximum of the order of few hundred meters. The question how do they affect chemical composition of particles and what are the possible effects on e.g. human health are speculated in another article submitted to special issue of Boreal Environment Research.

4. Results and conclusions changes so that they put this study in the context of previous study by Reiter et al., 1994

Once again, thank you for kind advise regarding some papers unknown to us.

Interactive comment on Atmos. Chem. Phys. Discuss., 6, 9297, 2006.

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