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Interactive comment

Interactive comment on "The influence of the baseline drift on the resulting extinction values of a CAPS PMex" by Sascha Pfeifer et al.

Sascha Pfeifer et al.

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We would like to thank the Referee for the comment.

We regret that the reviewer categorically rejects the analysis of measurement artifacts for the CAPSPMex for atmospheric measurements, as well as the presentation and description of a possible solution for a journal with focus on atmospheric measurement techniques.

The two points of criticism are somewhat contradictory, on the one hand the paper is said to be very short, on the other hand it is pointed out that the improvements are obvious, to be expected as an "1-2 sentence statement in the Methods section of a journal paper". This relativization is also in contradiction with the first two referees,

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who would like to see a somewhat detailed description and/or a critical analysis of potential limitations of the correction scheme.

Indeed, the paper is truly a compact and concise presentation of a specific problem (intended as a technical note). The problem is analyzed and quantified. A possible solution is presented and sufficiently discussed. The resulting improvements are significant and cannot be ignored (as it seems also from the referee).

To the best of our knowledge, we do not know any scientific article that deals with the measurement artifact of a CAPSPMex for atmospheric conditions and discusses a user-friendly solution in post-processing. We consider the improvement of CAPSP-Mex data quality to be scientifically relevant and as a "substantial new (or alternative) method"

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