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Discussions

Interactive comment on "Computational Efficiency for the Surface Renewal Method" *by* Jason Kelley and Chad Higgins

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The authors gratefully acknowledge the reviewer's comments, which have led to substantial changes in the manuscript, which was initially revised in May 2017, and again recently in response to additional review. Overall, I have attempted to improve clarity of writing; specifically, the hypotheses and goals of the manuscript have been clarified, and the methods are more clearly delineated with appropriate and up to date citations. The brief conclusion has been changed to be more appropriate, in particular to describe additional results which have been included in response to additional reviewer requests. The most significant of these was expanding on actual implementation of despiking via convolution, using a phase space criteria for quantitative spike identification. I have also attempted to clarify those parts of the

analysis which are novel in implementation, within the context of previous work in programmatic algorithms. Specific comments are addressed in the supplementary notes, attached.

Please also note the supplement to this comment:
https://www.atmos-meas-tech-discuss.net/amt-2017-123/amt-2017-123-AC1-supplement.pdf

Interactive comment on Atmos. Meas. Tech. Discuss., doi:10.5194/amt-2017-123, 2017.