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Comment

# ***Interactive comment on “Reconstruction of high resolution time series from slow-response broadband solar and terrestrial irradiance measurements by deconvolution” by A. Ehrlich and M. Wendisch***

**C. Hoose (Referee)**

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I am providing an editor review of this manuscript as the second reviewer is unfortunately unavailable for providing a full review in the discussion forum. However, this reviewer has already provided comments and a very positive recommendation during the access review. Therefore I can confidently advise publication of this paper in AMT subject to the issues raised by the other referee and in the comment by Dr. Kiedron. Furthermore, I'm asking the authors to consider the following points:

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- Please make sure that all abbreviations are spelled out on their first occurrence in the text, even if they are as trivial as AD or SD. Are the instrument names (KT19, CGR, ...) abbreviations with any kind of meaning?

- For the measurements over open leads, I would be interested in the estimated actual surface temperatures.

- In Figure 7, I would find it helpful if the cloud-free areas would be indicated similarly to the open leads in Figure 6.

- Section 4 already includes mention of equivalent horizontal distances for sampling frequencies. Approximate numbers translating the limiting frequencies into distances would also be helpful in the abstract and conclusions.

Technical corrections:

- page 5186, line 14: criteria -> criterion

- page 5195, line 8/9 change parentheses

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Interactive comment on Atmos. Meas. Tech. Discuss., 8, 5179, 2015.

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