

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

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(1) Definition in eqs.(4) needs to be corrected. The limits on t (two intervals) should be swapped.

(2) Interval-wise deconvolution (p.5186, lines 10...) begs the question how the deconvolution is performed in overlap areas. How the solution are "glued" or "blended" in transitory areas?

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(3) Gibbs phenomena (p.5191, line 9...). The Gibbs phenomena can be significantly reduced at slight loss of resolution by modifying deconvolution scheme. For example eqs.(9) can be apodized which is related to Lanczos sigma factors. Other methods like using wavelets seems to be well established approach.

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

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