

Interactive comment on “Close-range radar rainfall estimation and error analysis” by R. van de Beek et al.

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We thank Frank Gekat for the valuable addition about other sources of error that may play a role. It is clear that the data that we have analyzed is from a range that is in the far field of the radar. The T/R limiter may indeed cause some tenths of a dB additional attenuation at the close range we're considering in this paper. We're confident that ageing of the T/R limiter has not degraded its performance, as KNMI operationally monitors this possible degradation (see Beekhuis and Leijnse, 2012). The limited effect of the T/R limiter is confirmed by our final results, where the final rainfall estimates are seen to correspond well with disdrometer and rain gauge measurements.

We will include a note in the revised paper about the fact that we're in the far field of the radar, and we'll briefly discuss the effect of the T/R limiter.

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Discussion paper



References:

Beekhuis, H. and H. Leijnse (2012), An operational radar monitoring tool. In: proceedings of the 7th European Conference on Radar in Meteorology and Hydrology, Toulouse, France, paper 47DQ, http://www.meteo.fr/cic/meetings/2012/ERAD/extended_abs/DQ_029_ext_abs.pdf.

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