

Atmos. Meas. Tech. Discuss., referee comment RC1
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Comment on amt-2022-193

Melanie Eickmeier (Referee)

Referee comment on "Complementarity of wind measurements from co-located X-band weather radar and Doppler lidar" by Jenna Ritvanen et al., Atmos. Meas. Tech. Discuss., <https://doi.org/10.5194/amt-2022-193-RC1>, 2022

The number of pulses in Table 1 and Table 2 is confusing to me. E.g. for the lidar:

It is written that the number of pulses is 1000. What is meant by "the number of pulses"? Normally I would say that 1000 pulses are used to calculate the velocities in a 3.0 degree ray. With 1000 pulses and a PRF of 10 kHz, an accumulation time of 0.1 s and an azimuth rate of 30 deg/second is used. I can't imagine that with an accumulation time of 0.1s, the data availability would be as good as reported in this article.

Please clarify what the measurement specifications are.