

Interactive comment on “Aerosol backscatter profiles from ceilometers: validation of water vapor correction in the framework of CeiLinEx2015” by Matthias Wiegner et al.

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Received and published: 24 December 2018

General comments:

The manuscript presents an evaluation of water vapor correction for ceilometers operating in the spectral range around 910 nm. The author solved important issues and provided a clear correction process. The accuracy of aerosol profile inversion from ceilometers data can be improved significantly. The paper is well written, validation of water vapor correction is discussed in extensive detail. The paper is clearly relevant and appropriate for publication to AMT. I recommend the paper for publication after technical corrections.

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Technical corrections:

Online wavelength may drift with temperature, as mentioned at Page28, Line5. CL31/51 have a wide bandwidth receiving optical filter (36nm@50% pass band according to CL31/51 manual) to adapt to wavelength drift within the operating range of -40 to 60 degreeC. In order to be perfect, I would suggest that the author should give the temperature adaptation range of the correction for the ceilometer without temperature control.

Interactive comment on *Atmos. Meas. Tech. Discuss.*, doi:10.5194/amt-2018-307, 2018.

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