

Interactive comment on “A two-year intercomparison of CW focusing wind lidar and tall mast wind measurements at Cabauw” by Steven Knoop et al.

Anonymous Referee #2

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The submitted manuscript describes an intercomparison between a ZephIr Doppler Wind lidar and a mast wind tower at permanent observatory site at Cabauw. The manuscript is overall well-written, even if, as the authors state, there is not so much innovation except for 2 continuous year intercomparison over the full range of the Doppler Wind lidar. The Results section clarity should be improved.

My main comment, besides the specific comments that can be found in the attached file is:

It is well known that thermal expansion could change the length of the transceiver telescope that would result in wind speed measurement at the wrong height. It can be

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interesting to check seasonal variability in the intercomparison.

I recommended major revisions, but in reality it lies between minor and major.

Please also note the supplement to this comment:

<https://amt.copernicus.org/preprints/amt-2020-304/amt-2020-304-RC2-supplement.pdf>

Interactive comment on Atmos. Meas. Tech. Discuss., doi:10.5194/amt-2020-304, 2020.

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