

## ***Interactive comment on “First validation of Aeolus wind observations by airborne Doppler Wind Lidar measurements” by B. Witschas et al.***

### **Anonymous Referee #3**

Received and published: 10 March 2020

The manuscript presents unique near simultaneous and near common volume observations of an airborne lidar and of the ALADIN instrument onboard the Aeolus satellite. The manuscript is well written and mostly well organized. The manuscript is a results of an extensive and valuable effort and deserves publication after some minor modifications.

I recommend re-organizing Section 5, as the formulas used to calculate the data in figure 3 is given after the discussion of figure 4. So swapping Figure 3 and 4 and rearranging the text will allow the reader to follow the thoughts in a less distracting way. In line with this the figures 3 and 7 will be easier to understand if the y-axis label is the symbol defined in Eq. 2 ( $v_{\text{diff}_{\text{HLOS}}}$ ).

Further comments are given in the supplement.

Please also note the supplement to this comment:

<https://www.atmos-meas-tech-discuss.net/amt-2019-432/amt-2019-432-RC2-supplement.pdf>

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Interactive comment on Atmos. Meas. Tech. Discuss., doi:10.5194/amt-2019-432, 2020.

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