

## ***Interactive comment on “First Identification and Quantification of Detached Tip Vortices Behind a WEC Using Fixed Wing UAS” by Moritz Mauz et al.***

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The following publication deals with the issue of airspeed variations for measurements with MASC-3. By analysing the influence of the calibration of the five-hole probe, the expected uncertainty when transecting the wake of a wind turbine and a tip vortex are presented.

Title: Calibration Procedure and Accuracy of Wind and Turbulence Measurements with Five-Hole Probes on Fixed-Wing Unmanned Aircraft in the Atmospheric Boundary Layer and Wind Turbine Wakes

Reference: Atmosphere 2019, 10(3), 124; <https://doi.org/10.3390/atmos10030124>

The error is estimated according to Rautenberg et al. to be  $\pm 10\%$  for the calculated  
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wind velocities. Applied to Eq. 20 in Section 5 of the discussion paper, the calculated circulation strength  $\Gamma$  may range between  $54 - 80 \text{ m}^2 \text{ s}^{-1}$ .

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Interactive comment on Wind Energ. Sci. Discuss., <https://doi.org/10.5194/wes-2019-9>, 2019.