

## ***Interactive comment on “Atomic oxygen number densities in the MLT region measured by solid electrolyte sensors on WADIS-2” by Martin Eberhart et al.***

**Martin Eberhart et al.**

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Dear reviewer,

we appreciate your comments and suggestions to our manuscript:

- Fig. 9: The atmospheric simulation shown in this figure was calculated using downleg data. This information has been added to the caption.

- photometer: we have added a brief description of the photometer and a reference. The photometer data is now also included in the semi-logarithmic representations (figs. 11 and 12).

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- Fig. 13: A scale has been added to the insert.

- Appendix: The parameters listed in table 1 are all related to the calibration procedure and thus define the uncertainty of the calibration method. Furthermore, the uncertainty of the measurement is also influenced by some atmospheric parameters that we try to assess on the basis of knowledge from the literature. We agree that it would be desirable to quantify the uncertainty of the numerical simulation as well. However, there is a lack of a "true" reference for the specific case of the payload aerodynamics. We have added a paragraph that addresses this point, but, instead of giving a vague number, we direct to the paper by Bird dealing with the effects of aerodynamics on rocket borne measurements.

Thank you for your time and thoughts The Authors

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Interactive comment on Atmos. Meas. Tech. Discuss., doi:10.5194/amt-2018-341, 2018.

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