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Atmospheric Measurement Techniques Discussions

Interactive comment on "Validation of ozone profile retrievals derived from the OMPS LP version 2.5 algorithm against correlative satellite measurements" *by* Natalya A. Kramarova et al.

Anonymous Referee #2

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This paper is clearly presented and well organized to describe a newly upgraded retrieval algorithm for OMPS LP observations. The subject of the paper is appropriate to AMT. Below are a few comments concerning clarifications / extensions for consideration in the final publication in AMT.

[1] Have the impacts of algorithm updates on the data throughput/yields been estimated? [2] For the comparisons among MLS, OSIRIS, ACE, have the contribution of the accuracy differences of spectroscopic parameter data across microwave-infrared-vis-UV ozone bands taken into account? The spectroscopic differences could be one of the observable sources that contribute to relative bias among data sets. Its quantifi-

cation could help in bias corrections of data products. [3] This paper has been focusing on the comparisons of OMPS LP central slit measurements with reference data sets. Could you consider to include discussions on the evaluation of the quality of OMPS LP retrievals using the measurements from OMPS LP left and right slits? or any possible approaches (e.g., via data assimilation system(s) + reference data sets) of estimating the quality of those retrievals?

Interactive comment on Atmos. Meas. Tech. Discuss., doi:10.5194/amt-2017-431, 2017.