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# *Interactive comment on* "AerGOM, an improved algorithm for stratospheric aerosol retrieval from GOMOS observations. Part 2: Intercomparisons" *by* Charles Étienne Robert et al.

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Received and published: 14 April 2016

This paper provides an overview on the performance of the new stratospheric aerosol extinction retrieval algorithm AerGOM by comparing the retrieval results with existing data sets from SAGE II, SAGE III, POAM III, ACE-MAESTRO and OSIRIS. A comprehensive comparison study is performed for different wavelengths at collocated measurement locations. A variety of parameters (latitude, sza, obliquity and star properties) indicate for which set of parameters the AerGOM retrieval has the best performance. The work is well structured and describes the comparison method in sufficient detail. The paper showed convincingly that AerGOM retrieval results are a valuable addition to the collection of stratospheric aerosol datasets.

I recommend for publication after two minor technical corrections as listed below.

- Page 2 Line 22: There are two different kinds of dashes here.

- Page 5 Figure 1: Depending on the PDF Viewer, the B side of the figure has a thin grey frame.

Interactive comment on Atmos. Meas. Tech. Discuss., doi:10.5194/amt-2016-27, 2016.