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Atmospheric Chemistry and Physics Discussions

Interactive comment on "XBAER derived aerosol optical thickness from OLCI/Sentinel-3 observation" *by* Linlu Mei et al.

Anonymous Referee #1

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This manuscript introduces the XBAER method and analysis the AOT result for OLCI/Sentinel-3 using this method. Generally speaking, this manuscript will be a good one after some minor revisions. 1. In the introduction part, there is too much description about the haze itself. Haze is not the main topic of this article, so I suggest the authors to reconsider the content for the haze. 2. Check if all the abbreviations are descripted at the first time, such as "ENVISAT" in Line 142 and "ESA" in Line 145. 3. Only one month for the AOT validation is not enough. Besides, it is lack of large AOT values for validation (only one sample great than 1.2) from the Fig. 3. 4. Line 311: It is better to descript in details which surface and aerosol types is contains in the validation work. 5. Fig.4: Not quite clear to see the fire points in the MODIS fire product.

Sincerely

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Discussion paper

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