

The authors did a great job addressing most of my comments, and the manuscript is vastly improved. I recommend it for publication, subject to minor changes. See below.

L110: “and increased aerosols after Soufrière Hills, Rabaul and Tavurvur volcanic eruptions”.

If the authors are confident that Rabaul and Tavurvur are two distinct eruptions, please include references for each. Otherwise, if they agree with my comment regarding Table 2, then they need to modify the text accordingly.

L181: “Envisat (Environmental Satellite).” Replace it with Environmental Satellite (Envisat).

Figure 7: The x and y-axis multiplier are challenging to follow. Please use $\times 10^{-4}$ and add it to the figure caption instead of each axis.

L279: “Figure 7 shows comparison of the monthly zonal mean FMI-GOMOSAero aerosol extinction coefficients at 21.5 km”

Could you please specify whether the comparison is conducted globally or for a specific zone?

L302: Can you comment on the bias with SCIMACHY? The bias is similar to SAGE, 20-40%, however, it is always negative. A comment about the AERGOM difference is also needed. I preferred to see the AERGOM difference between the other two instruments instead, but I am okay with Fmi-GOMOS-AERGOM plot if the authors can explain its significance to the reader.

L338: “The largest enhancement at 21 km is in the tropics and it is associated with Soufrière Hills, Rabaul and Tavurvur volcanic eruptions in 2006.” Also, in L361. See my comments regarding L110 and Table 2, and make sure the text is consistent if you agree with my comments.

L326: A short statement pointing to the improvement of the proposed new dataset over the AERGOM dataset is warranted here.

Table 2: I’m not aware of a Rabaul eruption in August 2006. However, it erupted in October 2006, reaching 18 km, according to this article <https://reliefweb.int/report/papua-new-guinea/volcano-erupts-papua-new-guinea-island>, reporting that the eruption took place in Mount Tavurvur, near Rabaul. which may lead to different naming of the same eruption. Please disregard my comment if you can provide a reference for both eruptions in L110 or modify the text if you agree they are the same.