

Reviewer 1

This paper provides a useful concise overview of the JAXA EarthCARE lidar products and will be a useful reference for the community. I recommend publication. There are, however, several mainly editorial issues that need to be addressed. The authors have done a good job responding to the issues I raised in my earlier review. I have only noted a couple of editorial issues.

- 1) Line 86: "..are estimated from the ESA" ==> "..are estimated by ESA.."
- 2) Line 210: "..but the SNR is not sufficiently small". "...but the SNR is not sufficiently large".

=> Thank you for pointing out. We have made the correction as noted.

Reviewer 2

=> No requests on revision were made (no referee report was found).

Along with revisions addressing the reviewer's comments above, we have made the following technical corrections. These corrections do not directly relate to the content of the paper.

Line 5-7: The affiliation description has been corrected.

Line 457-459: A description regarding data availability has been added. Accordingly, one reference (Roh et al. 2023b) has been added.

Line 482-485: We found missing programs regarding financial support and added them as follows, "This research was supported by the EarthCARE satellite study commissioned by the Japan Aerospace Exploration Agency (grant no. 23RT000223), a Grant-in-Aid for Scientific Research (KAKENHI) (project numbers: JP18KK0289, JP17H06139, JPS17H04477, JP15H01728, JP15H02808, JP22K03721, JP24H00275, and JP25220101), and Collaborative Research Program of the Research Institute for Applied Mechanics, Kyushu University (Fukuoka Japan)."

Line 1148-1149: We found a typo and corrected it as follows.

"Oikawa E., Nakajima T., Inoue T., Winker D.: A study of the shortwave direct aerosol forcing using ESSP/CALIPSO observation and GCM simulation, J. Geophys. Res. Atmos., 118, 3687-3708, <https://doi.org/10.1002/jgrd.50227>, 2013."