

Review of egosphere-2023-1945: "Monitoring biomass burning aerosol transport using CALIOP observations and reanalysis models: a Canadian wildfire event in 2019", by Shang et al.

The authors assess mass transport in the CAMS and MERRA-2 reanalysis data sets using measurements of wildfire smoke acquired by the CALIPSO lidar and by several ground-based lidars. The paper is well organized and the subject matter is appropriate for ACP.

Below I have attached an annotated version of the manuscript that contains several (mostly minor) comments and suggestions. I recommend publication once these have been addressed. Because I am well acquainted with lidar measurements, but less so with the model predictions, my comments focus almost exclusively on the handling and interpretation of the lidar data.