

Response to the handling editor:

Thank you for pointing out the discrepancy. We have changed the wording in that section:

“...however, the tropospheric sulfate burden from the Pinatubo eruption is relatively small compared to the stratospheric burden. Results from Ukhov et al. (2023) suggest that the eruption contributed about 0.03 to tropospheric AOD two weeks after the eruption, compared to about 0.13 to the stratospheric AOD, with tropospheric sulfate having a lifespan of roughly one month.”