

I recommend publishing the manuscript subject to the following technical corrections:

L45: change ‘mall-to-moderate’ to small-to-moderate

L90: add OMPS LP (Loughman et al, 2018 or Taha et al., 2020)

L173: ‘and are re usually less than’ remove re

L213: ‘within a4-km’ add space after a

L251: ‘volcanic eventsin’ add space after events

L332: ‘It is also possible that pyrocumulus events in Alberta, Canada and Siberia occurring around the time of the Raikoke eruption (Yu et al., 2019), play a role in the evolution of extinction following this event’

I don’t see Yu et in the reference list. Perhaps Kloss et al., 2020 is more appropriate.

#### References:

Kloss, C., Berthet, G., Sellitto, P., Ploeger, F., Taha, G., Tidiga, M., Eremenko, M., Bossolasco, A., Jégou, F., Renard, J.-B., and Legras, B.: Stratospheric aerosol layer perturbation caused by the 2019 Raikoke and Ulawun eruptions and climate impact, *Atmos. Chem. Phys. Discuss.*, <https://doi.org/10.5194/acp-2020-701>, in review, 2020.

Loughman, R., Bhartia, P. K., Chen, Z., Xu, P., Nyaku, E., and Taha, G.: The Ozone Mapping and Profiler Suite (OMPS) Limb Profiler (LP) Version 1 aerosol extinction retrieval algorithm: theoretical basis, *Atmos. Meas. Tech.*, 11, 2633-2651, doi:10.5194/amt-11-2633-2018, 2018.

Taha, G., Loughman, R., Zhu, T., Thomason, L., Kar, J., Rieger, L., and Bourassa, A.: OMPS LP Version 2.0 Multi-wavelength Aerosol Extinction Coefficient Retrieval Algorithm, *Atmos. Meas. Tech. Discuss.*, <https://doi.org/10.5194/amt-2020-329>, in review, 2020.