



*Supplement of*

**Changes in stratospheric aerosol extinction coefficient after the 2018 Ambae eruption as seen by OMPS-LP and MAECHAM5-HAM**

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## Supplementary material

In Figure S1, we present the results of MAECHAM5-HAM simulations of the 2018 Ambae eruptions similar to those presented in Section 4.1.2, but without nudging of meteorological data.

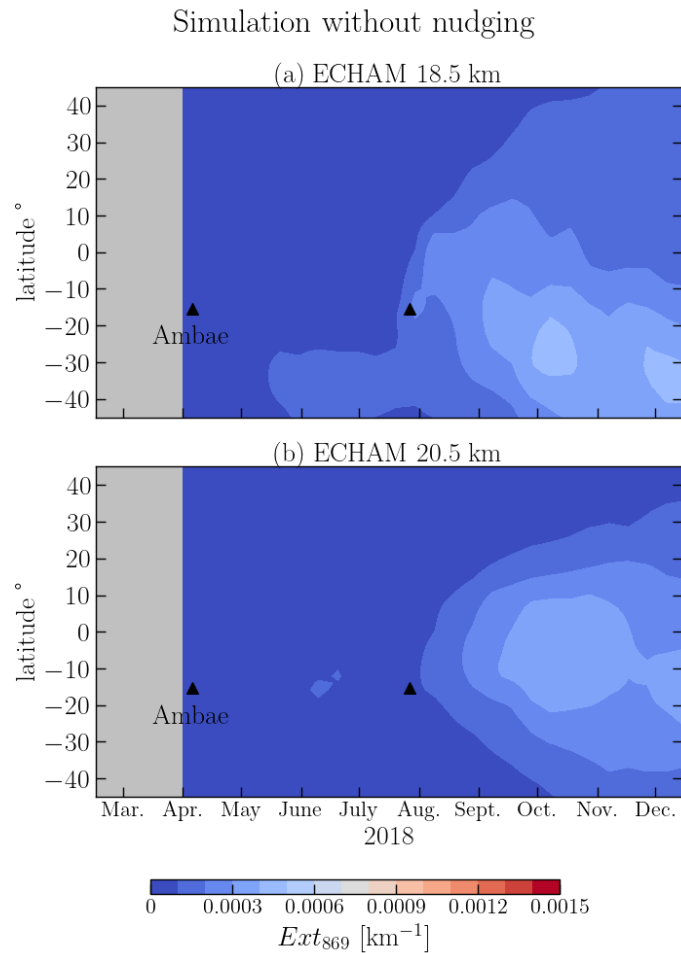


Figure S1: The evolution of the aerosol extinction coefficient ( $Ext_{869}$ ) at 18.5 and 20.5 km altitude after the Ambae eruptions of 2018 from MAECHAM5-HAM simulation without nudging. The dataset were averaged over 10 day periods.