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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 nugding of meteorological data.

Simulation without nudging (a) ECHAM 18.5 km 40 30 20 latitude. 10 0 -10-20Ambae -30-40(b) ECHAM 20.5 km 40 30 20 latitude ° 0 0 -10 -20Ambae -30-40Mar. Apr. May June July Aug. Sept. Oct. Nov. Dec. 2018 0.0003 0.0006 0.0009 0.0012 0.0015

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.

 $Ext_{869} \, [km^{-1}]$