



Supplement of

Modeling study of the impact of SO_2 volcanic passive emissions on the tropospheric sulfur budget

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Figure S1. Global FGE and correlation coefficient of AOD for REF, and CARNALTI simulations against monthly MODIS observations.



Figure S2. Maps of the FGE and correlation coefficient of AOD for REF and CARNALTI simulations against monthly MODIS observations in Zone 1 (Central Africa).



Figure S3. Maps of the FGE and correlation coefficient of AOD for REF and CARNALTI simulations against monthly MODIS observations in Zone 2 (Hawaï).



Figure S4. Maps of the FGE and correlation coefficient of AOD for REF and CARNALTI simulations against monthly MODIS observations in Zone 3 (Mediterranean Sea).



Figure S5. Annual mean sulfur (a) wet and (b) dry deposition and (c) sedimentation (in kg.m⁻²) for CARNALTI simulation.



Figure S6. Difference in sulfate tropospheric column volcanic contribution between CA and (a) CA_MIN, (b) CA_MAX and (c) CA_RAND simulations, in %.