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*Supplement of*

## **Measurements of aerosols and charged particles on the BEXUS18 stratospheric balloon**

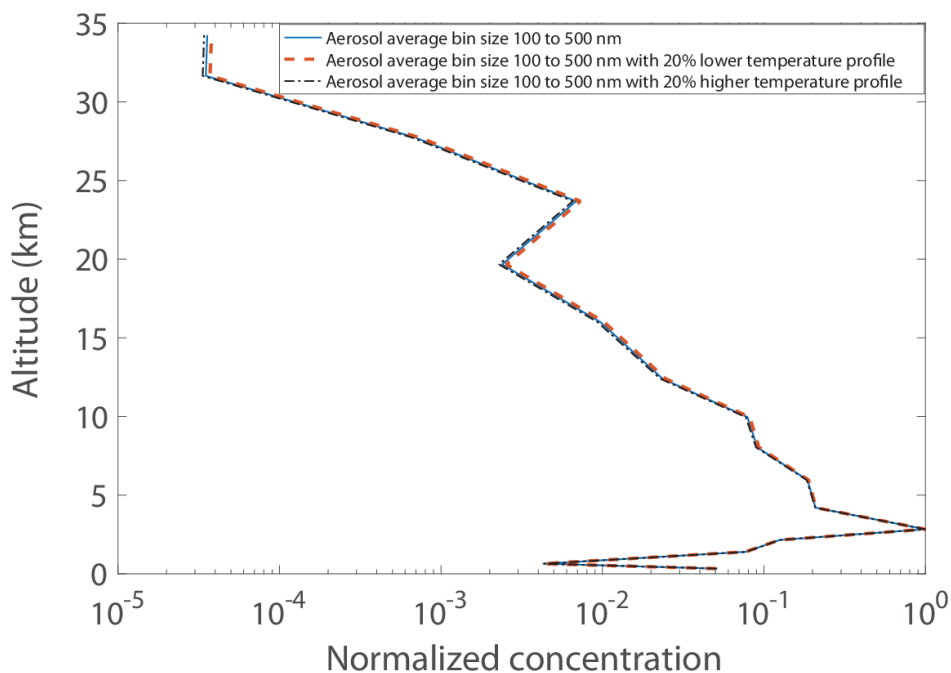
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Here we show the results of sensitivity tests for the model results with an input of 20% higher/lower temperature profile. The model results show no significant change in aerosol concentrations for 20% change in temperature profile.

5 This does not affect the final model results drastically, as results show that steady state conditions are reached in more or less a couple of hours. Only 1% change in aerosol concentration is observed for an input of 20% higher/lower temperature profile into the model (reported in the Supplementary Material). Overall, no significant differences are observed for 20% change in T-p profile.



**Figure S1: Sensitivity tests showing the simulated aerosol concentration changing the input temperature profile.**