

Replies to Technical corrections:

We thank the Editor for appreciating our efforts. The changes are indicated in blue color in the revised manuscript and corresponding line numbers are also mentioned in the replies given below.

P6, L133: It would be nice if you could motivate somewhere in this section why you use an ensemble simulation.

Reply: Thank you for the suggestion. We have now added a reason for using an ensemble mean approach at L136-137, also given below.

“To assess the uncertainty caused by model imperfections, we adopted an ensemble mean approach (with ten ensemble members) for the above two experiments.”

P6, L146: Instead of just writing "different initial conditions" I would appreciate if you could give more details on how the ensemble members were initialised and what the difference in initialisation of these are.

Reply: As suggested, we have given the details of how the ensemble members were initialised and initial conditions used at L145-149, also given below.

The uncertainty estimates in simulated radiative forcing, heating rates, and aerosol extinction coefficient are obtained from the difference between the mean of (a) the ten-members for BMaeroon and (b) the ten-members for BMaerooff. Both sets were generated from initial conditions with start times shifting by a day over the ten days period of 1-10 January.

P17, L421: Add a comma after "Further"

Reply: It is corrected.

P18, L447: shows -> show (?)

Reply: It is corrected

P35, L845: space between "Myanmar" and "(MY...)" is missing

Reply: It is corrected (now at L836).

P36, L859: figure 3 -> Figure 3

Reply: It is corrected (Now at L850).

P40, Figure 7 figure header: Space between K and day-1 is missing. Further, I think it should rather read $K \text{ d}^{-1}$, please check the Copernicus guidelines and correct if necessary throughout the manuscript.

Reply: It is corrected as $K \text{ d}^{-1}$ at P40 and in the manuscript.

P40, Figure 7 caption, L958: remove dot between the units

Reply: It is corrected now.

Supplement, Figure S2 caption: Same here, remove dot between the units.

Reply: It is corrected now.