

Reply to the reviewer's comments to
ChAP 1.0: A stationary tropospheric sulphur
cycle for Earth system models of intermediate
complexity

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We are grateful for the reviewer for the constructive comments which led to the improved presentation of our results.

The most important changes in the manuscript are as follows:

- The second referee's suggestions are discussed as limitations of the contemporary version of the scheme and noted as routes to improve it.
- In addition, an issue of distinguishing heavy and light rain in wet deposition calculations is noted and discussed.
- Some typos (in particular those found by the reviewer) are corrected.

This reviewer made only one editorial comment, "*Numbering in Figs. 5-7 do not correspond to the figure captions – there are no designations d, e*".

This was a misprint: items 'b' and 'c' in panel titles were erroneously duplicated. Upon revision, this misprint is corrected.