

Dear professor Chiara Giorio,

Thank you for your decision to allow us to revise our manuscript for publication in *Atmospheric Chemistry and Physics*. Below is a point by point response to the comments.

Referee #4:

The authors have addressed the points raised to a level that i think publication is now recommended. If possible, it would be good to have the abstract more numerical/quantitative. At present it is very qualitative.

Re: Thank you. The steady-state uptake coefficients of SO₂, sulfate masses, as well as a linear relationship between •OH intensity and sulfate mass, have been added in the Abstract.

Thank you very much for your help.

Sincerely yours,

Chong Han

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