

## ***Interactive comment on “Satellite-derived SO<sub>2</sub> flux time-series and magmatic processes during the 2015 Calbuco eruptions” by Federica Pardini et al.***

**Federica Pardini et al.**

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Received and published: 20 October 2017

Dear Editor Michael Heap,

We would like to thank you for the opportunity to revise our manuscript entitled “Satellite-derived SO<sub>2</sub> flux time-series and magmatic processes during the 2015 Calbuco eruptions”.

We have fully addressed all the points raised, and explain our response in two reply to reviewer documents. We believe the manuscript has been greatly improved by addressing the points raised by the two Reviewers. The main structural changes we made are an expansion of the petrological estimate of sulfur loading and inclusion of the petrological approach in the main body of the paper. We have also performed new

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numerical simulations in order to show the consistency of our results, and included these in a new figure 5.

Please find attached the marked-up version of the manuscript.

Yours Sincerely,

Federica Pardini and co-authors

Please also note the supplement to this comment:

<https://www.solid-earth-discuss.net/se-2017-64/se-2017-64-AC1-supplement.pdf>

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Interactive comment on Solid Earth Discuss., <https://doi.org/10.5194/se-2017-64>, 2017.

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