

Interactive comment on “Extended observations of volcanic SO₂ and sulfate aerosol in the stratosphere” by S. A. Carn et al.

Anonymous Referee #2

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This manuscript provides interesting first data of monitoring SO₂ emitted from moderate volcanic eruptions over long enough time to gain information on the conversion to SO₄. We may expect that from now on the input of S species into the stratosphere will be monitored more accurately. The text is well written, clear and interesting and shows the potential of A-Train satellites. I suggest publication with only minor revisions.

Only few critical remarks are necessary: 1. VEI is not at all a useful index when SO₂ emissions are of concern. 2. I do not quite buy the links with proposed geo-engineering in the conclusions. Seems to me that is a bit of a long shoot. It should be enough saying that we now have the means to much better monitor the injection of S into the stratosphere, the injection height, conversion rate etc. 3. Volcanic eruptions do not trigger Climate Change, but rather climate anomalies.

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