

***Interactive comment on “Impact of very short-lived halogens on stratospheric ozone abundance and UV radiation in a geo-engineered atmosphere” by S. Tilmes et al.***

**Anonymous Referee #1**

Received and published: 27 August 2012

This very interesting manuscript addresses the important issue of changes in ozone and UV that would result in year 2040 from the injection of sulphate aerosol into the stratosphere. The paper shows the significant effect of chemical reactions involving the very short lived halogen replacement chemicals whose concentrations will be high by the period studies. In addition to this more comprehensive treatment of chemical change, the manuscript also demonstrates the relatively small effect on UV due to changes in radiative transfer due to aerosol extinctions.

---

Interactive comment on Atmos. Chem. Phys. Discuss., 12, 21923, 2012.