

Interactive comment on “A statistical examination of the effects of stratospheric sulphate geoengineering on tropical storm genesis” by Qin Wang et al.

Anonymous Referee #2

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I would advise the authors to modify some of the new phrases they are adding to the manuscript after my comments in a more correct way. In particular I'm referring to:

“Furthermore, recent work (Vioni et al., 2018 ACP in discussion) explores the secondary of surface cooling on the upper troposphere with the impact on cirrus clouds, and the concomitant impact on static stability. Surface cooling and lower stratospheric warming, together, tend to stabilize the atmosphere, thus decreasing turbulence and water vapor updraft velocities. The net effect is an induced cirrus thinning, which serves to increase net global cooling due to the SAI.”

- “explores the secondary of surface cooling on the upper troposphere with the impact

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on cirrus clouds” would be much clearer if phrased as such: “explores the surface cooling impact on upper tropospheric cirrus cloud formation”.

- “thus decreasing turbulence and water vapor updraft velocities” would be better as “thus decreasing turbulence and updraft velocities”.

- “which serves to increase net global cooling due to the SAI” should be changed to “which indirectly increases the net global cooling due to the SAI”

Interactive comment on Atmos. Chem. Phys. Discuss., <https://doi.org/10.5194/acp-2018-142>, 2018.

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