

Interactive comment on “Modeling study on the transport of summer dust and anthropogenic aerosols over the Tibetan Plateau” by Y. Liu et al.

Anonymous Referee #2

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The paper addressed the evaluation of SPRINTARS using satellite observations. SPRINTARS must have been evaluated previously by several investigators. Also, there is no novel idea was addressed which merits the publication of this version in ACP. However, it may be considered if the authors address the following issues:

The dust simulations and its spatial extent around 40N shown in Figure 3 does not very well compared with OMI observations.

Also, model overestimates the carbonaceous and sulfate aerosol distribution around 100E. The reasons why it is not matching with observations are not explained clearly.

Some minor suggestions

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Page # 15013 Line 19: Rainclouds may be corrected as "warm clouds"

Page # 15016 Line 14: "Considering the missing satellite observations over 21-23 August". You have used MISR, OMI and which data was missing?

In some places it is spelled as "Taklimakan" instead of "Taklamakan"

Interactive comment on Atmos. Chem. Phys. Discuss., 15, 15005, 2015.

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