

## Response to the editor:

Comment from the editor: thanks for the detailed reply to the reviewers. I just read it and I am almost satisfied with the result. There is one point in the answer to reviewer 2. You show a figure, named Figure 4 and in the caption circles and squares are mentioned. But I am not able to say for most of the symbols if it is a circle or a square. In the modified manuscript the figure appears as part of figure 5, if I am not wrong and for this figure b) nothing about circles and squares is written. Can please clarify this?

Response: We would like to thank the editor for the detailed suggestion. We clarified this by adding more clear descriptions of these dots in Figure 5 for our manuscript. Meanwhile, we changed these squares to triangles and specifically for the right panel of Figure 5, we made their edge color black, trying to differentiate these triangles with the circles more obviously. The modified figure was shown below as well.

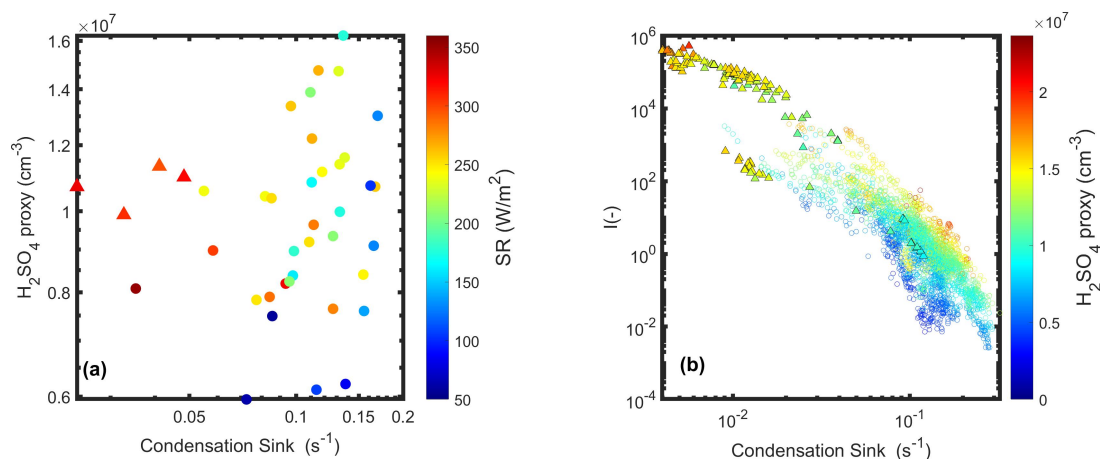


Figure 1: (a) H<sub>2</sub>SO<sub>4</sub> concentration as a function of condensation sink during both event days and non-event days during our study. (b) The dimensionless indicator, *I*, as a function of the condensational sink. For both panels, the triangles indicate data for event days while the circles indicate data for non-event days. The colorbar indicates: solar radiation (left panel) and H<sub>2</sub>SO<sub>4</sub> proxy concentration (right panel).