

## ***Interactive comment on “Anomalous holiday precipitation over southern China” by Jiahui Zhang et al.***

### **Anonymous Referee #2**

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#### General Comments:

This manuscript presents the anomalous holiday precipitation over southern China during the Chinese Sprint Festival based on their analysis of the long-term station observations. The associated meteorological parameters are also analyzed to investigate the possible mechanisms of the reduced precipitation. The manuscript is scientifically sound, well organized, written, and concise. I recommend accepting it as minor revision as below.

Specific comments: P3 L24 it is better to use southern China not China since the results are analyzed in southern China in this study. P4 L8-9 What is your criterion to exclude the stations? likely if there is only one missing data do you exclude the site? P4 L29 what is the step 0? P5 L10-18 The statements to calculate the precipitation

frequencies are not clear. Actually how many days do you use, 7 days or 3 days? And it contradicts to the 9 days as found with the aerosol time-lag correlations. P6 L10-15 What do you mean of the specific day here? P6 L30 It looks there are positive departures. P7 L16 section→ subsection P7 L29 could you also shown this sub-region in the Figure? P8 L10 factors-> factor P8 L25 Please give the sample numbers of no rain days P10 L2-3 if total cloud cover shows no evident changes but low cloud covers experiences a significant decrease, does it indicate high cloud covers are increased? Figure 9 is it the horizontal wind or wind anomaly? P16 L1 why do you selected days [-15,-11]? Is it arbitrary? P18 L17 The maximum appears for a time-lag of -9, but aerosol lifetime is generally less than one week? Is there any other mechanism? P20 L19 It is not accurate to use East Asia here.

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