

***Interactive comment on* “Contribution of Surface Solar Radiation and Precipitation to Spatiotemporal Patterns of Surface and Air Temperature Warming in China from 1960 to 2003” by Jizheng Du et al.**

Anonymous Referee #2

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This paper analysed the spatial patterns of T_s and T_a and their relations with SSR and precipitation using the observations. It is important to study the mechanism of T changes in the warming climate in regional scales. I think this article is publishable after major corrections.

In general, the text can be compressed substantially.

- 1) Eq (1) is not needed, "linear trend" or "Linear regression" should be enough.
- 2) Please discuss why the $T_{adjusted}$ is calculated? State its actual meaning and applications.

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3) The detailed descriptions are not necessary in Figure captions and can be moved to the text.

Minor

Line 54: Hegerl and Zwiers is missing in the references

Line 173-174: Is that 1990?

Line 257: Please check Ts-max and Ta-max trends. By eye, both values should be close.

Line 277-281: Mechanism of the difference should be mentioned here.

Line 294: Significant difference. Can you clarify how significant it is please?

Line 534: References

Line 570: Eastling et al and Line 638: Ohmura. They are not referenced in the text, please check.

Ta-min in Figs 5,6,8,9 can be removed, since they don't give much information. They can be briefly discussed in the text.

Interactive comment on Atmos. Chem. Phys. Discuss., doi:10.5194/acp-2016-1022, 2016.

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