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Interactive comment on “A new indicator on the impact of large-scale circulation on wintertime particulate matter pollution over China” by B. Jia et al.

Anonymous Referee #1

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This study develops a new metric - the Siberian High position index to examine the correlations between large-scale atmospheric circulation and air quality over China. This is a very interesting topic and should be of great interest to the community. I think the paper is well written and just have a few minor points here. p19279, L5-6, double check the uncertainty $\pm 0.05 \pm 0.2 \times \text{AOD}$ - whether the first \pm is needed. p19281, L8-9, climatology – climatological p19295, Table 1, consider adding definition/description for high-SPHI VS low-SPHI winters so that the readers don't have to go back to the text to search for those info. p19303, Figure 7 caption, wind fields → wind direction (since wind fields would include both direction and speed)

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