



Interactive
Comment

Interactive comment on “Temporal and spatial variability of extreme snowfall indices over northern Xinjiang from 1959/1960 to 2008/2009” by S. Wang et al.

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Snow fall changes are of great importance for Xinjiang in terms of water resources management. The currently well-evidenced global warming may have critical impacts on snow cover changes, in this case, this study is of great importance. I recommend acceptance of this study in your journal for exchange and I have the confidence that many international readers will be interested in this research. However, my concern is that the author may be expected to do autocorrelation analysis of the time series due to the fact that the significant autocorrelation, if any, will have influence on MK trend test results. Besides, persistence effects of time series on MK trend test results have

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been widely discussed, the authors should discuss it. Besides, the following references should be cited and discussed in this study:

Qiang Zhang, Jianfeng Li, Vijay P. Singh, Yungang Bai, 2012. SPI-based evaluation of drought events in Xinjiang, China. *Natural Hazards*, 64(1), 481–492. Qiang Zhang, Vijay P. Singh, Jianfeng Li, Fengqing Jiang, Yungang Bai, 2012. Spatio-temporal variations of precipitation extremes in Xinjiang, China. *Journal of Hydrology*, 434-435, 7-18. Qiang Zhang, Jianfeng Li, Vijay P. Singh, Chong-Yu Xu, Yungang Bai, 2012. Changing structure of the precipitation process during 1960-2005 in the Xinjiang, China. *Theoretical and Applied Climatology*, 110(1-2), 229-244.

Interactive comment on *Nat. Hazards Earth Syst. Sci. Discuss.*, 1, 7059, 2013.

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