

## ***Interactive comment on “Analyses of relationship between Loess Plateau erosion and sunspots based on wavelet transform” by P. Gao et al.***

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First of all, thank you for attention to our work and made very constructive comments and suggestions. 1) As most of the research, the main sunspot cycle is 11 year periodicity, and the cycle is statistically significant in the time range. And the other two possible cycles are 31 year periodicity and 42 year periodicity (Li, 2004). In fact, if the problem can be resolved, we do not need too much attention is the single cycle or double cycle. 2) Thank you for your advice. Maybe I will add some introduction of the research work in the next revised version. 3) Indeed, as you said, the soil erosion process is not the purpose of the paper. Maybe I will add some introduction of the research work in the next revised version. Thank you very much again. References: Li K. J., Su T. W., Liang H. F.: The periodicity of sunspot activity through modern sunspot

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Interactive comment on Hydrol. Earth Syst. Sci. Discuss., 8, 277, 2011.

**HESD**

8, C258–C259, 2011

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