

Interactive comment on “China’s historical record in the search of tropical cyclones corresponding to ITCZ shifts over the past 2ka” by Huei-Fen Chen et al.

Huei-Fen Chen et al.

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Dear Editor,

We appreciate the reviewer give us very important suggestions. We will revise his comments in our manuscript, but we need time to do the statistical analyses before the end of October. The follows are our recent quickly response according his questions.

(1) The data of Zhang (2013) is not a first-hand data. Before, we asked Dr. Zhang and she answered that they had more data, but many of unconfirmed records they never published. So, we only can use the published book. The data has higher credibility

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because they deleted repeat data from different documents. (2) This ENSO data was calculated from many cores of precipitation proxies in western and eastern equatorial Pacific Ocean. It means the “Southern Oscillation Index” of the Pacific Oscillation. Although it is not a temperature proxy of Pacific Ocean but it shows a good correlation with our time interval just covers the past 2,000 years. When we want to find “the same time scale” and a suitable data “resolution of time”, we find that this data is more suitable for our correlation. (3) This suggestion is very good and useful for us. Therefore, we will find a suitable NAO index and compare that data with Southern Oscillation index and our paleotyphoon data. We will add a plot in the revised manuscript and try to use statistical analyses to dissect the relation coefficient between these two physical parameters. (4) The relation of recent typhoon and ENSO had been discussed in many atmospheric research before (Ho et al., 2004; Wu and Lau, 1992; Lander, 1993, 1994; Chan, 1985, 2000; Lander, 1994; Elsner and Liu, 2003). Their researches had more statistical methods, but they all used only short time scale. Modern discovery recognized the occurrence place of warm pool as linkage to ENSO and influenced the occurrences of typhoon. Therefore, we do not do the same thing again.

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