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Climate of the Past Discussions

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 Prof. Elsner,

We very appreciate your comments and so quick response. We will do all revisions in the next version of manuscript. However, we don't extend the axis of the age to 0-1000 A.D. in figure 7(d), because the original data of Chu et al. (2002) only show the data between 1000-1910A.D. If we extended the axis, readers would misunderstand no events occurring at 0-1000 A.D. We will add a paragraph in section 2 to describe our method for more detailed as bellow. It is really important for our keywords in this research. Many thanks for your attentions.

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Discussion paper

Considering the evolution of typhoon-related keywords over the years, besides using the specific keywords " Typhoon" and "Jufeng" to search for records since 1000 A.D. Related expressions such as "strong wind", "rainstorm", and "storm surge" were also applied to our search. However, the terms jufeng and typhoon rarely appeared in the historical record prior to 1000 B.P. So, for this earlier period, we added additional terms that are possibly associated with "typhoon" such as "trunk pulling", "tree pulling", "collapsed building", and "wind storm" to our statistical study. We attempt to reconstruct the time of occurrence and the location of paleotyphoons along the coastal region in China, and to understand the evolution of typhoon development over a long period of time. It is worth to note that every episode would be recorded in historical documents due to a significant damage or a disaster. As a result, we speculate that the strengths of typhoons would be above moderate. All ancient Chinese literatures were listed in the appendix of Liu (2015).

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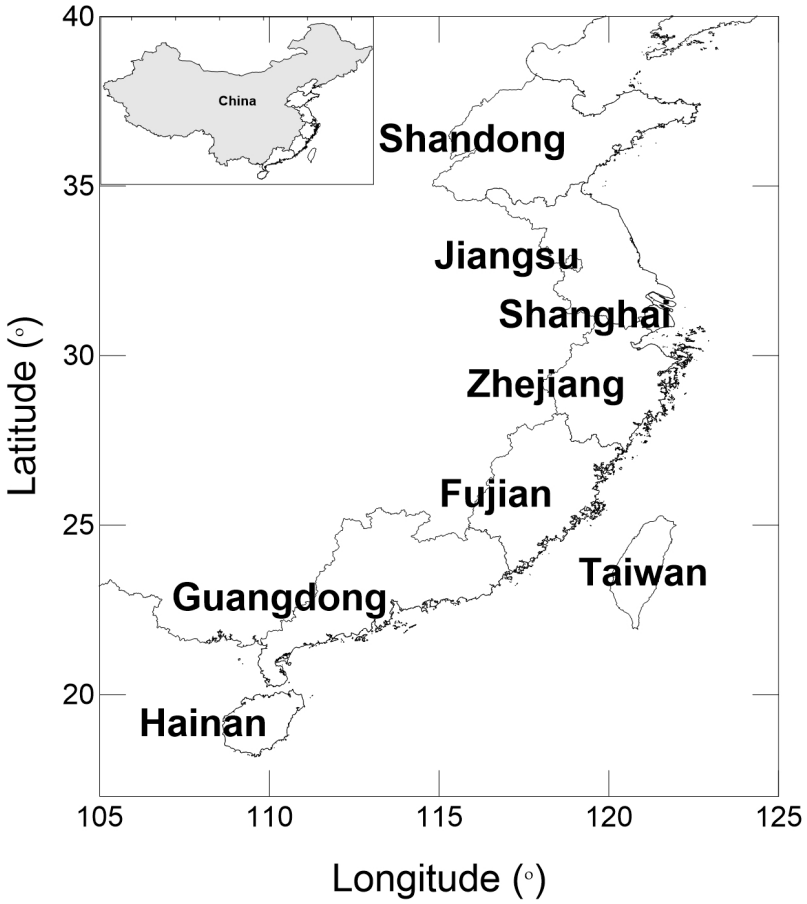
China
Shandong
Jiangsu
Shanghai
Zhejiang
Fujian
Taiwan
Guangdong
Hainan
40
35
30
25
20
105
110
115
120
125
Latitude (°)
Longitude (°)

Fig. 1.

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