Interactive comment on "Risk Zoning of Typhoon Disasters in Zhejiang Province, China" *by* Yi Lu et al.

Anonymous Referee #2

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As we known, researches on damage assessment and vulnerability is limited and difficult for the lack of precise data. This study discusses the vulnerability of the population and economic factors at the county level for Zhejiang Province, China. It is interesting. But there are still some questions and the manuscript is need to be improved. Questions are listed as follow: 1. The English of the manuscript is need be improved. 2. Extend data from 2012 to 2016? 3. The background of typhoon disaster over Zhejiang province must be introduced. 4. L74-75. Add reference about best track data from CMA. 5. Describe more detail about the OSAT methods. 6. L103: In this section, authors describe the methods of standardization. But corresponding variables are unknown. 7. Introduce the method of calculating probability of typhoon rainstorms. 8. L148: Do you sure about "over six sites"? 9. Durations of data in different parts are

different. Could durations of different kinds of data are uniformed? 10. L178: What criterions are used in calculating precipitation or wind? 11. L181: The distribution of sample sizes? 12. L194: the intensity index is calculated for each typhoons and each stations? And how get the distribution of intensity indexes in figure 8? 13. L199-L238. I am confused by the section 5.2. Each factor or component in factor 1 to factor7 in equation 2 or seven components in table 3 is a vector with 29 variables? Please describe more details about factors or components. The signs of vectors from PCA maybe opposite of real meaning. Do you do detail analysis on the relations of variables in a vector and between vectors? The equation 2 is must be evaluated carefully. 14. Could you find data of 29 variables in table 2 in early year? If the difference of population vulnerability between 2010 to early year is analyzed, the manuscript will to be more valuable.

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