

Nat. Hazards Earth Syst. Sci. Discuss., referee comment RC1  
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## Comment on nhess-2022-26

Anonymous Referee #1

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Referee comment on "Compound flood impact of water level and rainfall during tropical cyclone periods in a coastal city: the case of Shanghai" by Hanqing Xu et al., Nat. Hazards Earth Syst. Sci. Discuss., <https://doi.org/10.5194/nhess-2022-26-RC1>, 2022

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Comment on "Compound flood impact of water level and rainfall during tropical cyclone period in a coastal city: The case of Shanghai" submitted to NHSS by Hanqing Xu et.al

### General Comments

This paper is very interesting to work on compound flooding generated when two or more flood drivers occur simultaneously or in close succession. Multiple drivers including socioeconomic can non-linearly amplify each other and to cascade effect of impacts. This paper deals with the peak coastal water level consisting of storm surge and astronomical tide, and as well as the relative sea level rise (RSLR) in Shanghai during 1961-2018. Some novel findings can be presented in the context I recommend to publish this paper in subject to minor correction.

### Specific comments:

1, please give more clarification on motivation of writing this paper, i.e. significant importance in Shanghai

2, Please add the discussion in the context to support your findings with references.