

These are some minor suggestions, that are meant to attract more interest on your manuscript

Suggestions for a revised abstract.

China is one of the countries that are most seriously affected by storm surges. In recent years, storm surges in coastal areas of China have caused huge economic losses and a large number of human casualties. Knowledge of the inundation range and water depth of storm surges under different typhoon intensities could assist pre-disaster risk assessment and making evacuation plans, as well as provide decision support for responding to storm surges. ~~This study contributed to the methodology of storm surge inundation simulation caused by different typhoon intensities which was composed by four parts: model configuration, model validation, parameters setting and inundation simulation.~~ Taking Pingyang County in Zhejiang Province as a case study area, parameters including typhoon tracks, radius of maximum wind speed, astronomical tide, and upstream flood runoff were determined for different typhoon intensities. Numerical simulations were conducted using these parameters to investigate the inundation range and water depth distribution of storm surges in Pingyang County **considering the impact of seawall collapse** under five different intensity scenarios (**corresponding to minimum central pressure values equal to 915, 925, 935, 945, and 965 hPa**). **The inundated area ranged from xxx to XXX for the most intense typhoon. The** obtained results **are** consistent with the actual situation in the study area. The **adopted procedure** could be easily adopted in various coastal counties and serves as an effective tool for the decision making in storm surge disaster risk reduction practices.

- I assume that in all cases the sea wall height would have been sufficient to prevent inundation if the seawall would not have collapsed apart from the effect wave overtopping. In this correct? Could you comment in this in the conclusions? Can you add a sentence on the effect of wave overtopping without sea wall collapse?
- Table 6: improve the caption and explain in the text the meaning of “Class”. I assume it refers to the water level in the inundated area, but I could not find the explanation in the manuscript. It would be useful to add a column with the total inundated area
- I read that you are not able to estimate the probability of the occurrence of typhoons as a function of their intensity. Could you anyway add some more information to put the correct perspective the thresholds that you have considered? E.g. could you add in 3.4.1 what is the intensity of the most intense recorded typhoon that affected this area? How many of them above the minimum threshold (965 hPa) that you have considered?
- Your sentence “**The** obtained results **are** consistent with the actual situation in the study area.” Is not clear to me? Do you mean that the model reproduces well the observations during the Typhoon Fitow ?
- Fig.7 caption: I suggest to add “**during typhoon Fitow** “ so that the caption would be “(a) Simulated inundated area and (b) surveyed inundated area **during typhoon Fitow**”
- Line I suggest to replace “and the seawall collapse scenarios is simplified in a sudden” with “and a simplified sudden collapse of the seawall is assumed”