

Interactive comment on “Compound flood potential from storm surge and heavy precipitation in coastal China” by Jiayi Fang et al.

Anonymous Referee #2

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This manuscript focuses on compound flood potential from storm surge and heavy precipitation in coastal China, results of which may be a support for urban flood control and management. The idea, the data and the methods used are not new and innovative. The results are common and direct. Two main parts should be improved firstly for further reconsideration for potential publication in HESS. 1. Data are basis for analysis. Tide data collected are mainly from 1975 to 1997 which are not in accord with that of precipitation. Does the tide data in the last 23 years potentially changed under climate change affect the results? If it does, how to improve it? 2. It has been widely accepted that storm surge and heavy precipitation are the first main influence factors of urban flood or waterlogging disasters. Please do not just list the data and their difference, discussions and conclusions must go deeper, mechanism of the results and potential

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application in design of flood defences should be clarified.

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