

Nat. Hazards Earth Syst. Sci. Discuss., referee comment RC3
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Comment on nhess-2022-130

Anonymous Referee #3

Referee comment on "Warning water level determination and its spatial distribution in coastal areas of China" by Shan Liu et al., Nat. Hazards Earth Syst. Sci. Discuss., <https://doi.org/10.5194/nhess-2022-130-RC3>, 2022

The authors present new technological methods utilized for determining warning water levels, as well as the procedure and results of this determination in Zhifu District, Yantai City, Shandong Province, China. This study discovered the existing marine disaster prevention capacities of coastal areas by analyzing the spatial distribution patterns of warning water levels in 259 shore sections in China, and recommend changes for future warning water level evaluations based on their findings. Notably, this assessment can serve as a scientific reference for encouraging the redetermination of warning water levels in China's coastal areas, thereby improving their marine disaster prevention and protection capabilities. In summary, it is a topic of interest to the researchers in the related areas. This is a carefully done study and the findings are of much considerable interest. I recommend this manuscript to be published in NHES.

My detailed comments are as follows:

- The "Discussion" section needs to be improved. For example, sea level rise under the effects of global warming exhibits an accelerating trend and may potentially be irreversible. The impact of the ongoing sea level rise on the rise in severe water levels has to be covered in more detail and depth.
- In the "Discussion" section, more detailed explanations of the advantage, limitation of the technological method used in this study could be presented.