

***Interactive comment on* “The influence of sea surface temperature on the intensity and associated storm surge of tropical cyclone Yasi: A sensitivity study” by Sally L. Lavender et al.**

Anonymous Referee #2

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The term ‘sensitivity study’ is a little confusing. A more suitable term might be ‘idealized study’ since this study examines the response of TC Yasi to warmer/colder SSTs in an idealized environment.

The term ‘potential destructiveness’ should be clearly defined in the manuscript. There are a number of factors that can determine the ‘potential destructiveness’ of a tropical cyclone. These include, but are not limited to, the characteristics of the tropical cyclone (e.g. max winds, size, translation speed) and the populated areas affected by the TC (e.g. population size, infrastructure). As such, it would add clarity to the manuscript if the term ‘potential destructiveness’ was defined.

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Interactive comment on Nat. Hazards Earth Syst. Sci. Discuss., <https://doi.org/10.5194/nhess-2017-397>, 2017.

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