

Interactive comment on “Numerical Simulations of the 2004 Indian Ocean Tsunami Deposits Thicknesses and Emplacements” by Syamsidik et al.

Anonymous Referee #2

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This study investigated deposits by the Indian Ocean tsunami in 2004 through the field measurement and reproduced it by using numerical simulations, which yields very interesting and valuable findings. However, the significance of this research should be more emphasized in the introduction. In the present manuscript, only the applicability of numerical models seem to be the main subject. The authors should show idea on how to make use of the results of this research in disaster prevention and reduction, such as estimating the magnitude of past tsunamis from sediments and evaluating the energy that the tsunami transports earth and sand. Although the authors stated that "this study estimated the energy required to transport sediments via a tsunami wave", the answer to this question is not clearly shown in the manuscript.

Interactive comment on Nat. Hazards Earth Syst. Sci. Discuss., <https://doi.org/10.5194/nhess-2018-348>, 2018.

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