

Interactive comment on “The 22 December 2018 Mount Anak Krakatau Volcanogenic Tsunami on Sunda Strait Coasts, Indonesia: tsunami and damage characteristics” by Syamsidik et al.

Anonymous Referee #2

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In this paper, detailed survey data of the area damaged by the tsunami caused by the volcanic flank failure are reported. Also the relationship between tsunami flow depth and damage of houses is discussed. The paper is worth published not only because the data are very valuable but also because the damage was caused only by tsunami without any other effects such as earthquake and associated liquefaction.

Followings are some comments: Major items 1) P.4, L22: "0.0805 cycle per day" indicates the period of 11.76 day. Such a long period astronomical component has nothing to do with tsunami. Is this a mistake with "cycle per hour"? 2) P.6: Looking at Fig.2, the amplitude of tsunami wave is about 1m at the highest. The reviewer is wondering why

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such a small tsunami yielded inundation depth over 5m. Are the tide stations located not on the coast but in deeper waters? 3) P.7, L5-7: The report by the interviewee does not correspond to the waveform at the tide station. Any comment should be given on this point. 4) P.10 and 11: Figure 11 and Figure 12 are interchanged. Need to be replaced.

Minor items: 1) P.2, L7: "was" is duplicated. 2) P.2, L9-10: The reviewer does not understand the meaning of the sentence. 3) P.2, L25: What is a-45 m wave? 4) P.5, L11: most of them houses → most of them were houses 5) P.6, L15: Cilegon → Ciwadan 6) P.6, L17: later → earlier 7) Caption of Fig.3: "tsunami flow height" should be changed to "run-up height" so that the same expression as in the figure is used. 8) P.10, 4.2.2: In this section, explanation is given in the order of the area number 4 → 3 shown in Fig.1. Changing the order to 3 → 4 should be better for the readers. 9) P.12, L7: "table 1" should be in Bold.

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