

## ***Interactive comment on “Tectonic Origin Tsunami Scenario Database for the Marmara Region” by Ceren Ozer Sozdinler et al.***

### **Anonymous Referee #1**

Received and published: 14 August 2019

#### General comments.

This study implements a tsunami scenario database with the intention to investigate the tsunami hazard in the Marmara Region. The presentation of the methodology and the results are well written, so that it deserves publication but minor revisions are necessary to clarify some points and address a deeper discussion. In fact the paper goes straight to the conclusion with no proper section for the discussion of the limitations of this scenario based approach.

#### Detailed comments.

Line 27 at page 3: The sentence is long and not clear. Please consider to write two sentences.

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Line 30 page 3: It is not clear if the “arbitrary manner” means “randomly”. If not please explain the “logic” the authors used to assign the slip values.

Line 20 at page 5: Please write a reference for the 25 cm threshold. Is this the lower limit to consider the scenario in the Database? Please explain it.

Table 1 at page 6: Please write in the caption (or in the text) the meanings of the acronym SSF, NF, NSSF, RSSF, RF.

Table 2 at page 7: Please write the units (m ?) of the displacements.

Figure 2 at page 8: It is really difficult to see the differences between the SN subplots. May be a larger figure in the landscape pdf could help.

Table 4 at page 11: It is not clear why only the values of the maximum wave amplitude above 0.75 m are shown and the values below 0.75 m are considered negligible, when the critical water level was indicated as 0.25 m at page 5.

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Interactive comment on Nat. Hazards Earth Syst. Sci. Discuss., <https://doi.org/10.5194/nhess-2019-186>, 2019.

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