

Interactive comment on “Post-earthquake ignition vulnerability assessment of Küçükçekmece District” by S. S. Yildiz and H. Karaman

Anonymous Referee #3

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As it can be understood from the manuscript, authors implemented a model to an existing software to estimate the post earthquake ignition probabilities of the buildings. The study brings an opportunity to use the model in several scientific and operational disaster management studies.

The revisions for the manuscript are listed below;

1. Figure 5 should include the sub-districts of the Kucukcekmece region as mentioned within the manuscript in page 13 line 14 and 15. By this way the readers can easily understand which sub-district is located where in Kucukcekmece and what is the building density at the mentioned sub-district.
2. Figures are not cited in a unique format within the manuscript. Figures 1, 2, 5, 6, 7

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and 10 are cited as Fig. 1, Fig. 2 and so on. However, Figures 3, 8 and Figure 9 are cited as Figure 3, Figure 8 and so on. By the way, the Figure is cited as both Fig. 4 and Figure 4. This should be corrected with one proper representation.

3. As it is mentioned in the manuscript by the authors, only the PGA earthquake hazard map has been used to estimate the building ignition probabilities. The reason for the 0.2 sec Spectral acceleration based earthquake hazard map has not been mentioned and represented inside the manuscript. If the 0.2 Sa based earthquake hazard map has not been used at all it should also not be represented as Fig. 6 in page 32. However, if this map has been used within the study it should be cited in a proper place within the manuscript mentioning where and how it has been used.

These revisions will increase the presentation quality of the manuscript by organizing it in a better-structured way. By completing this minor revisions, I would recommend the publication of this manuscript.

Interactive comment on Nat. Hazards Earth Syst. Sci. Discuss., 1, 2005, 2013.