

### Authors comments to the NHESS editor

We have considered carefully the comments from you and revised our manuscript. Authors' one-on-one comments are as follows. Also, we have attached the revised manuscript.

Thank you so much for your consideration of this manuscript.

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(1) The sentence on page 2, line 17 still remains unclear "In this case, ..." Please, re-phrase it.

Thank you for pointing this out.

We have re-phrased it as follows:

In this case, the hazards at the two target sites both increase, and as a result, the aggregate risk for the two buildings considering the hazard correlation increases. Conversely, when the positive correlation of hazards is small, the hazard at one site is not necessarily large, even if the hazard at another site is large. In this case compared to the former case, the hazards at the two target sites are smaller, and as a result, the aggregate risk for the two buildings is smaller if we assume that the vulnerability of the two buildings is equal.

(2) In-text citations. In general, you do a good job at citing appropriate in-text citations to support your facts, but please go through the paper from beginning to end (the text and the figure captions and table headers) to make sure that EVERY sentence it is clear where the facts/information are coming from. For example, Line 5, Page 2.

Thank you for pointing this out.

We have added some citations in Line5-7, Page2 and Line25, Page2.

(3) For all figures, please ensure that they have some indication of scale either on the figure or in the figure caption. For example, in Figure 2a, 4, 5.

Thank you for pointing this out.

We have added the indication of scales in Figure 2a, 4, 5.

(4) Size of text in figures. Ensure that the minimum font size is legible in your figures. For example Figure 4b & 6 legend numbers--will these be legible once the figure is printed (would be an easy task now to enlarge the legend numbers). Figures 7, 12 the axis labels and numbers may be a bit small. The same for the Table 3 and the colorbar in Figure 5.

Thank you for pointing this out.

The minimum font size of Figure 4b & 6 could be legible.

It is difficult to modify the axis labels and numbers of Fig.7 and 12. Instead, we have the original figures with meta files. If you need, please inform us. The same for the Table 3.

We have modified the size of colorbar in Fig.5.