Comment on nhess-2022-176

Anonymous Referee #2

Referee comment on "Earthquake-induced landslides in Haiti: analysis of seismotectonic and possible climatic influences" by Hans-Balder Havenith et al., Nat. Hazards Earth Syst. Sci. Discuss., https://doi.org/10.5194/nhess-2022-176-RC2, 2022

The authors present a very detailed paper, based on numerous estimations derived from the modeling of recorded processes. In a multi-hazard framework, such evaluations are essential for developing proper disaster risk reduction measures, and the applied character of the paper enhances its importance, besides its fundamental one.

The paper is generally well structured, but there are sometimes paragraphs which should better fit other chapters (especially related to the methodology and discussion-based ones, as outlined in the annotated .pdf). As well, sometimes the paper has paragraphs which are difficult to be followed, due to the length of the sentences and the permanent comparisons between events. Sometimes, the authors are using sentences looking like a report (e.g. pages 6-7). The graphics part is conclusive, but the choice of close colours in landslide delineation might not be the best one. Also, field pictures (besides the RS ones) with debris flows (as recognized by the authors as being the most numerous landslides triggered by the 2021 earthquake; instead, only rock falls are shown) would enhance the reader's overall image.

A detailed annotated .pdf is attached, containing minor suggestions.

Please also note the supplement to this comment:
https://nhess.copernicus.org/preprints/nhess-2022-176/nhess-2022-176-RC2-supplement.pdf