

***Interactive comment on* “Estimation of hazard assessment by FINSIM for west coast and son narmada faults” by Shivamanth Angadi and Mayank Desai**

Anonymous Referee #1

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The manuscript by Angadi and Desai (2018) deals with ground motion simulations in West Coast, India. I regret to state that the manuscript is not prepared with care as an academic paper and it does not add to existing literature. The amount of revisions required exceed reasonable amount of major revisions and thus it is rejected herein. Following are my specific comments:

1. The manuscript is full of grammar and language mistakes. There are so many mistakes that the manuscript is not comprehensible at several locations.
2. The language is not technical and the text does not stand as an academic paper. Many repetitions are there in the text. In addition to the language issues, regular rules

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of academic papers are not followed. For instance: There are no citations in the text to the references, we only see them in the reference list.

3. The Introduction section does not cite the relevant past research on the topic, even though the strong motion simulations are used and methods are validated worldwide. All these studies are ignored in this manuscript.

4. There is no detailed information on the geology of the study area. Also, no information on the local conditions is provided.

5. The application details are not clear. Which event is modeled in the manuscript? Is it the 1992 $M_w=5.2$ event? The M_w value of the simulated event is not clear, we see $M_w=5.2$ in the text but see different values in the Tables 1-3 ($M_w=6.6$ in Table 3).

6. The simulations are not validated. Is there any dataset recorded from the mentioned earthquake? Or are the authors performing blind simulations in the study area? If they are simulating a real event, a comparison of simulated motions against data is necessary. In addition, comparisons against validated GMPEs is necessary. Otherwise, the entire simulation exercise is not verified.

7. The comparisons provided in Figure 2 are not comprehensible. The PGA levels in the top panel is very low while the lower panel has higher PGA values. We do not understand which panel represents what study? Why are the values so different? In summary, the simulations are not verified.

8. Authors compare PSHA and DSHA results at some point in the text. These two type of methods are not comparable at all.

9. The Conclusions also show that the study is one simulation exercise whose details are not presented and whose validation is not performed.

Interactive comment on Nat. Hazards Earth Syst. Sci. Discuss., <https://doi.org/10.5194/nhess-2018-1>, 2018.

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