

Interactive comment on “Seismic hazard maps of Peshawar district for various return periods” by Khalid Mahmood et al.

Anonymous Referee #1

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The article by Khalid et al. (2019) presents the probabilistic seismic hazard analysis of Peshawar district of Pakistan. The authors have used the Cornell- McGuire approach to carry out the assessment and four different ground motion prediction equations have been used combined with the logic tree and the final maps are presented for peak ground acceleration (PGA) values. I have gone through the article and noted the following observations: 1. There is very little information is provided about the compilation of earthquake catalog, the historical era events may be discussed in the article and a small discussion on its compilation is required to be included. 2. Completeness analysis and declustering of catalog is missing, both catalog completeness and declustering should be discussed, as these seriously effect the hazard values. 3. Several important studies concerning Peshawar, Khaliq et al. (2018); Waseem et al. (2018); Sasetayn et

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al. (2018) Ahmad et al. (2019) have been missed by the authors, they should be cited in the article, where required. 4. The results of this study should be discussed and compared with the similar studies

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