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Discussions

Interactive comment on "Transposing an active fault database into a seismic hazard fault model for nuclear facilities – Part A: Building a database of potentially active faults (BDFA) for metropolitan France" by Hervé Jomard et al.

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This paper addressed the compilation on the database for potential active faults for further SHA calculation for the need on the Nuclear Plants seismic safety regulation. As stated in the article, the information on the active faults are very limited as well as the knowledge in historical earthquakes and seismic activities. This paper, under this circumstance, had given the well justification and the best possible of compiling the update to date information on potential active faults in terms of segmentations, geometry, and slip rate. It is worthy for publication.

Followings are some comments, 1. Any information on the possible information on the controlling fault depth?

2. Is it possible using geodetic data to discriminating the activity of the geological structure as an active fault or not?

3. Briefly describe the completeness of Historical earthquake catalog.

4. The paper addressed on the concern on extreme event as the 2011 Tohoku style event. How about the multiple-segments style of faulting as a faulting from a system, e.g. like. 2016 New Zealand event for Mmax investigation?

5. Slip rate is indeed a very difficult parameter to measure. A recent paper by Shyu et al. (2016) used soils on the terraces as a classification for slip rate determination. Is it also possible for your future investigation on the dating or age determination on the possible active fault?

Shyu et al. (2016) A New On-Land Seismogenic Structure Source Database from the Taiwan Earthquake Model (TEM) Project for Seismic Hazard Analysis of Taiwan http://tao.cgu.org.tw/index.php/articles/archive/geophysics/item/1376-tao-2015-11-27-02-tem

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