

Interactive comment on “Non-linear effects of pore pressure increase on seismic event generation in multi-degree-of-freedom rate-and-state model of tectonic fault sliding” by Sergey B. Turuntaev and Vasily Y.Riga

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Received and published: 28 March 2017

We would like to thank very much anonymous referee for the attention to our paper and for thorough reading of the paper. All the suggestions to improve the text were accepted and the paper was corrected in accordance with the referee remarks.

1. English needs a thorough review. It is the author's responsibility to revise the English in the entire manuscript to a much higher standard. We sent the paper to English speaking person, all suggested corrections were adopted.

2. Expressions relating the friction forces in the Eq. (1) and shear stress are absent, of
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course, it is evident, but it is necessary to note. We added expression related friction force and shear stress.

3. Please emphasize the differences with the literatures Häring et al., 2008, Dinske, 2010. We relocated references to the two literatures to emphasize that the value of hydraulic diffusion coefficient was taken from Dinske, 2010, other values were chosen based on Häring et al., 2008.

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Interactive comment on Nonlin. Processes Geophys. Discuss., doi:10.5194/npg-2016-66, 2016.