

## ***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***

**Anonymous Referee #2**

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The authors have presented interesting results of a numerical study on nonlinear effects of pore pressure increase on seismic event generation in multi-degree-of-freedom rate-and-state model of tectonic fault sliding. The paper is worth to be published after taking into account the items that follow.

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. 2. Expressions relating the friction forces in the Eq. (1) and shear stress are absent, of course, it is evident, but it is necessary to note. 3. Please emphasize the differences with the literatures

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Håring et al., 2008, Dinske, 2010.

Please also note the supplement to this comment:

<http://www.nonlin-processes-geophys-discuss.net/npg-2016-66/npg-2016-66-RC2-supplement.pdf>

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

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