

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 #1

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The paper presents simulations of the fault movement caused by the spatial friction variations modelling fluid injection. The paper is interesting and I would recommend it for publication subject to minor revision to address the following:

1. Figures 27, 28 are almost empty, that is small variations in velocities are not seen. Possibly, using log scale in the velocity axis could help.
2. Captions to Figs. 16-22, should be dependence of . . . of rather than . . . on.
3. Discussion, line 11, “considered spring-block system “, should be “the considered spring-block system”; line 14, “affects” rather than “affect”

C1

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

C2