

Interactive comment on “Multistable Slip of a One-degree-of-freedom Spring-slider Model in the Presence of Thermal-pressurized Slip-weakening Friction and Viscosity” by Jeen-Hwa Wang

J. G. Spray (Referee)

jgs@unb.ca

Received and published: 1 June 2017

This is an interesting and well-structured paper. I have made minor edits via Adobe in the attached PDF document. Aside from these minor considerations, I do have a question concerning AUD (adiabatic-undrained-deformation). A steady-state scenario is typically not realized in natural slip (fault) systems because fractures and adjacent subordinate faults can drain the melt from the main interface, thus increasing friction once again. Does the author's model include this consideration? This also means that pseudotachylite (solidified friction melt) thickness is typically not related to displacement. Again, does the model accommodate the possibility of such behaviour

[Printer-friendly version](#)

[Discussion paper](#)



and, if so, how?

NPGD

Please also note the supplement to this comment:

<http://www.nonlin-processes-geophys-discuss.net/npg-2017-17/npg-2017-17-RC1-supplement.pdf>

Interactive comment on *Nonlin. Processes Geophys. Discuss.*, <https://doi.org/10.5194/npg-2017-17>, 2017.

Interactive
comment

[Printer-friendly version](#)

[Discussion paper](#)

