

***Interactive comment on “An upper limit for slow earthquakes zone: self-oscillatory behavior through the Hopf bifurcation mechanism from a model of spring-block under lubricated surfaces” by Valentina Castellanos-Rodríguez et al.***

**Anonymous Referee #1**

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I take note of the authors' reply that the paper is a preliminary study that needs further refinements in order to be applied to real seismogenic regions. I suggest that this is explicitly stated in the conclusions, possibly indicating which are the following steps that should be made toward application. The considerations that the authors make in the reply with reference to Watkins et al. (2015) indicate a possible link with observations and should be included in the paper. The dimensional problem in some equations has been solved. Misspellings have been corrected and the sentence at page 5 has been rephrased and expanded. With the above proviso, I confirm my positive opinion on the paper.

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Interactive comment on Nonlin. Processes Geophys. Discuss., doi:10.5194/npg-2016-60, 2016.

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