Interactive comment on "EDDA 2.0: integrated simulation of debris flow initiation and dynamics, considering two initiation mechanisms" *by* Ping Shen et al.

Anonymous Referee #1

I think that the manuscript is excellent. I only suggest to insert these further references, concerning the statistical models, at page 4 line 67-69:

Baum, R.L., and Godt, J.W. Early warning of rainfall-induced shallow landslides and debris flows in the USA, Landslides, 7(3), 259-272. DOI: 10.1007/s10346-009-0177-0, 2010.

Berti, M., Martina, M.L.V., Franceschini, S., Pignone, S., Simoni, A., and Pizziolo, M. Probabilistic rainfall thresholds for landslide occurrence using a Bayesian approach, Journal of Geophysical Research: Earth Surface, 117 (4), doi:10.1029/2012JF002367, 2012

Cannon, S.H., Gartner, J.E., Wilson, R., Bowers, J., and Laber, J. Storm rainfall conditions for floods and debris flows from recently burned areas in southwestern Colorado and southern California, Geomorphology, 96(3–4), 250–269, DOI: 10.1016/j.geomorph.2007.03.019, 2008

De Luca D.L.; Versace P. A comprehensive framework for empirical modeling of landslides induced by rainfall: the Generalized FLaIR Model (GFM). Landslides, 14(3): 1009-1030, ISSN: 1612-5118, DOI: 10.1007/s10346-016-0768-5, 2017

Godt, J.W., Baum, R.L., and Chleborad, A.F. Rainfall characteristics for shallow landsliding in Seattle, Washington, USA. Earth Surface Processes and Landforms, 31, 97-110, DOI: 10.1002/esp.1237, 2006

Guzzetti, F., Peruccacci, S., Rossi, M. and Stark, C.P. The rainfall intensity–duration control of shallow landslides and debris flows: An update, Landslides, 5, 3–17, DOI: 10.1007/s10346-007-0112-1, 2008.

Staley, D.M., Kean, J.W., Cannon, S.H., Schmidt, K.M., and Laber, J.L. Objective definition of rainfall intensity–duration thresholds for the initiation of post-fire debris flows in southern California, Landslides, 10(5), 547-562 DOI:10.1007/s10346-012-0341-9, 2013.

after addition of these references, in my opinion the manuscript is ready for publication

---