

## ***Interactive comment on “EDDA: integrated simulation of debris flow erosion, deposition and property changes” by H. X. Chen and L. M. Zhang***

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Many regions around the world including China are vulnerable to rainfall-induced landslides. Although the simulation of debris flows movement in rainfall-induced landslides is well developed, the application of debris flow analysis programs in practice is very limited. This paper develops a new depth-integrated numerical model for simulating debris flow erosion, deposition, and property changes and considers the changes in debris flow density, yield stress, and dynamic viscosity and so on. The quality and readability of this paper are expected to be greatly improved after the constructive review comments are addressed properly. This study may potentially have great impact on facilitating the application of debris flow analysis programs in real-time warning for debris flows. The key is that the numerical model developed in this paper should be

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made more transparent such that it can be easily accessible to general readers.

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