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Long H Le* (longl@uca.edu) and **Jonathan Taylor** (jst04004@gmail.com). *A model for submarine granular flow with erosion.* Preliminary report.

Submarine avalanches, while have been understudied, can have devastating effects. Not only can they destroy underwater constructions, they can also initiate tsunami that kills people. In this paper, we present a Savage-Hutter type model for submarine granular flow down an incline. This model includes erosion at the basal surface of the granular flow. Numerical experiments are performed with this model and the results will be discussed. (Received September 24, 2012)