



Characteristics of avalanche motion from Montserrat volcano

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Solid block model is applied to describe avalanche motion under the action of gravity and Coulomb friction. Special attention is paid to characteristics of avalanche flow generated by Soufriere Hills Volcano (Montserrat) in likely directions. Duration of fall and velocity of avalanche are computed in order to estimate potential avalanche and tsunami hazard associated with eruption of Montserrat Volcano.