Geophysical Research Abstracts Vol. 18, EGU2016-1924, 2016 EGU General Assembly 2016 © Author(s) 2016. CC Attribution 3.0 License.



Simulations demonstrating sediment disconectivity associated with rainfall erosion

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There is a general assumption that sediment discharged from erosion of a source area has the same particle and chemical constitution as the surface of the soil in that source area. The transport mechanisms which move material from the point of detachment move particles of different size and density at different rates which leads to particles detached together becoming disconnected from each other as the travel across the surface. A simulation model of sediment transport by rain-impacted flow is used to demonstrate the consequences.