







Sand (silt, debris, weak rock) flow slide

rapid to extremely rapid flow of sorted or unsorted granular material on moderate slopes, *involving excess pore-pressure or liquefaction* of material originating from the landslide source.













(Photo: S.G. Evans, GSC)

Clay flow slide is a very rapid to extremely rapid flow of liquefied sensitive clay, at, or close to its original water content."

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Earth flow is a rapid or slower, intermittent flow-like movement of plastic, clayey earth.





Earth flow complex: Lidar, last return







Debris flow is a very rapid to extremely rapid flow of saturated non-plastic debris in a steep channel. (Plasticity Index < 5% in sand and finer fractions)







(Photo H. Hubl, Vienna)

QUINDICI, Italy

Mud flow is a very rapid to extremely rapid flow of saturated plastic debris in a channel, involving significantly greater water content relative to the source material (Plasticity Index > 5%)





Debris avalanche is a very rapid to extremely rapid shallow flow of partially or fully saturated debris on a steep slope, without confinement in an established channel





Rock avalanche *is an extremely rapid, massive, flowlike motion of fragmented rock from a large rock slide or rock fall.*

