

## How to recognize gravity flow deposits as seismic event deposits?

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Strong shaking of aerial and subaqueous slopes triggered their failure, that produced avalanched or gravity flow deposits just below the slope. In marine or lacustrine environments, turbidites and subaqueous debris flow deposits may be formed and preserved in the bottom sediments. In some cases, we know these are good indicators for paleoseismic events. However, it is difficult to distinguish seismic trigger from other triggers, such as river floods, storm surge and tidal surges. Then, I try to summarize which formations we need to recognize gravity flow deposits as seismic event deposits.