DIVERSE SCALES IN EROSSIVE EVENTS MAGNITUDE: IMPLICATIONS FOR SEDIMENT MANAGEMENT

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DIFFERENCES IN VOLUME SCALE

A first visual classification of the event volumes shows that at least two families exist in our data, with a transition zone between the green and the purple dashed line.

Note that data for large volumes (< 50'000 m³) supposed to be exhaustive whereas data for smaller volume are only a sample of the expected events.

The analysis done on these low magnitude events shows triggering factors similar to the following:
- widespread erosion on the basin
- feeding of the gully by landslide
- internal erosion of the channel
- a combination of some of these triggers

Most of the extraordinary events could be explained by specific causes that change the facility for the sediment being put into movement.

The table below summarises what is known about the causes of the events that are considered to be extraordinary. All these catchments have several other events belonging to the "normal" event family.

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