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# Recent debris transfer on colluvial cones: processes, distribution and frequency

## a case study from the Fnjóskadalur valley, Central North Iceland





- Which present-day processes?
- Which debris transfer?
- Which extent?
- Which frequency?
- Which short time changes?

How could the results be used for natural hazard & risk assessment?





- Central North Iceland
- = 65°35' N / 17°43' W
- Remote valley

- U-shaped valley
- 660 m slopes
- Sheep grazing in the valley
- Birch cover on slopes



#### Huge debris availability, large source areas for snow avalanches



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#### **Snow avalanches**





Lateral spreading through time over the cones

- Lateral spreading over the cones
- Extremely long runout distances





Geomorphic evidence: large boulders are scattered in the distal parts of cones and talus









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## ... Thank you for your attention !

