

Seismic waves: a unique source of information on glaciers and landslides (session 1)

mardi 25 octobre 2022 14:00 (1h 30m)

I will show here how the coupling between numerical modelling of glaciers and landslides associated with the analysis of the generated seismic waves makes it possible to recover unique information on the source processes. These waves provide a unique tool to constrain the models by providing detailed information on the dynamics of landslides and iceberg calving. This approach allows quantifying in particular the location and volume of events and relate landslide or iceberg calving activity with external forcing such as seismic, volcanic or climatic activity, with strong implication on hazard assessment.

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