

Geowissenschaftliches Kolloquium

Seismological Geomorphology: from eroding earthquakes to geomorphic signals

Donnerstag, 13. Juni - 16.15 Uhr

Niels Hovius

Geoforschungszentrum Potsdam

In his talk Niels Hovius will explore the links between seismic processes and erosion, the use of geomorphic observation in seismology and the potential of seismological approaches to monitoring of surface processes. The talk will touch on a range of questions, including: Do earthquakes cause predictable patterns of mass wasting? Can patterns of earthquake-induced erosion be used to constrain seismic slip? How do individual erosion processes interact? And, what, precisely, is the geomorphic efficacy of rainfall?

Niels Hovius is interested in the physical, chemical and biological processes that shape Earth's surface and their interactions. Working primarily in erosional environments, he has studied individual geomorphic processes such as fluvial bedrock incision and landsliding, and their role in landscape evolution, sediment flux, lithospheric deformation and global biogeochemical cycles. Niels Hovius heads a new research team, »Geomorphology« at the GFZ Potsdam.

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