

GM3.7: The processes and timescales of sediment production, transport and deposition from source to sink

Co-organized by BG4/HS13/SSP3

Convener: Oliver Francis | Co-conveners: Aaron Bufe, Lisa Harrison, Steffi Tofelde

Friday 8th May 2020 10:45 – 12:30 CEST

Each author will have 2 minutes to introduce their display, highlighting their research question and key results. Then, there will be 5 minutes for questions.

Time (CEST)	Authors	Title
10:45	Conveners	Introduction to session
10:50	Jin Wang et al	Temporal shifts in erosion provenance through multiple earthquake cycles
10:57	Maude Thollon et al	Sediment residence time variations in an Alpine river system inferred by uranium activity ratio
11:04	Jesse Zondervan et al	Eccentricity forcing of Saharan climate drives fluvial strath terrace formation in the High Atlas
11:11	Maxime Bernard et al	The effects of ice and hillslope erosion and detrital transport on the form of detrital thermochronological age probability distributions from glacial settings
11:18	Rebekah Harries et al	Linking source to stratigraphy through sediment transport: The importance of spatially variable climate on the evolution of the Argentine Andes
11:25	Colin Phillips et al	Landscape and river self-organization limit the flux of fine particles
11:32	Elizabeth Dingle et al Presented by Hugh Sinclair	Sediment dynamics across gravel-sand transitions: Implications for river stability and floodplain recycling
11:39	Joshua Jones et al	Himalaya mass-wasting: impacts of the monsoon, extreme tectonic and climatic forcing, and road construction
11:46	Laura Quick et al	Stability of the gravel-sand transition of the Ganga Plains recorded in Siwalik stratigraphy; implications for extreme floods
11:53	Erin Harvey et al	The remobilisation of seismically-sourced sediment by debris flows in Wenchuan: A grain size perspective
12:01	Anne Guyez et al	Fluvial transport dynamics in the Rangitikei River (New Zealand) unravelled through single-grain feldspar luminescence
12:08	J. Jotautas Baronas et al	Revised sediment transport model for estimation of suspended sediment flux and chemical composition of the Irrawaddy and Salween rivers
12:16	Anne-Sophie Fabris et al	Characterization of the St. Lawrence Estuary's suspended matter size and composition
12:23	Charles M. Shobe et al	Toward a unified model for sediment transport from terrestrial source to abyssal-plain sink
12:30	Yuming Liu et al	A new easy-to-use tool for grain size distribution analysis
12:37 – 13:00	Non guided chat	This will be an opportunity to ask any remaining questions that were missed or were not able to be asked earlier in the session