

GM3.4/HS9: Biogeomorphology/Ecogeomorphology: conceptualising and quantifying processes, rates and feedbacks

Conveners: Annegret Larsen, Nico Bätz, Jana Eichel, William Nardin, Wietse van de Lageweg, Hana Jurikova

Chat on Thu, 07 May, 16:15–18:00

D1039 15min	Keynote: Biogeomorphological research frontiers: from ant mounds to Mars	Heather Viles
D1040 5min	Biogeomorphology from Space: Using optical satellite imagery time series for analyzing the dynamic interaction of vegetation and hydromorphology along the Naryn River, Kyrgyzstan	Florian Betz, M. Laueremann, G. Egger, and B. Cyffka
D1041 5min	Biological weathering by the Devonian trees	Lukasz Pawlik, B. Buma, P. Samonil, J. Kvacek, A. Galazka, P. Kohout, and I. Malik
D1042 5min	Modelling of interactions between bioturbation and mud distribution reveals effects on large-scale estuarine morphology	Muriel Brückner, C. Schwarz, and M. Kleinhans
D1043 5min	Hydrodynamic Stressing and the Response of Endangered Freshwater Pearl Mussels to Turbulent Flows	Edward Curley, R. Thomas, C. Adams, M Valyrakis, and A. Stephen
D1044 5min	Seeing through the fluid dynamics of flexible vegetation and canopy turbulence	Robert C. Houseago, L. Hong, J.L. Best, D.R. Parsons, and L.P. Chamorro
D1045 5min	Influence of plant traits on biogeomorphic patterns of gravel bed rivers	Francesco Caponi, D.F. Vetsch, and A. Siviglia
D1047 5min	Dynamics of riparian vegetation as impacted by sedimentation in reservoirs	Olga Segura Jimenez, E.G. Sosa, and P. Breil
D1048 5min	Biogeomorphodynamic of fluvial-tidal levees and accommodation space infilling	Marcio Boechat Albernaz, L. Roelofs, H. J. Pierik, and M. Kleinhans
D1049 5min	Monitoring of groundwater, morphological and ecological development of the Perkpolder managed realignment following tidal restoration	Wietse van de Lageweg, J.S. de Paiva, J. van der Werf, L. de Vet, P. de Louw, T. Bouma, B. Walles, T. Ysebaert, and A. van Berchum
D1050 5min	Biogeomorphic modeling: how to account for subgrid-scale interactions between hydrodynamics and vegetation patches	Olivier Gourgue, J. van Belzen, C. Schwarz, T.J. Bouma, J. van de Koppel, and S. Temmerman

D1051 5min	Hydraulic modelling of brown trout habitat in a hydropower-impacted Alpine braided stream	Yufang Ni and S.N. Lane
D1053 5min	Sustainability of tropical river systems in Colombia, Integrating geomorphology, hydrology and vegetation analysis in the context of global change	Masiel Pereira and G. Vargas
D1054 5min	A better appreciation of glacial floodplain morphodynamics reveals that disturbances are not spatially homogenous: implications for biofilm development	Matteo Roncoroni , M. Cl��men��on, and S.N. Lane
D1055 5min	Effect of a surface biofilm on sediment transport implemented in a 1D numerical model	Elena Bastianon , J. Malarkey, and D. Parsons
D1058 5min	Carbon sequestration in tropical meandering rivers	Luca Salerno , F. Bassani, and C. Camporeale
D1059 5min	Mapping sediment carbon in a large tropical reservoir: burial of terrestrial and aquatic organic carbon, and occurrence of potential methane ebullition hot spots	Sebastian Sobek , R. Mendon��a, A. Isidorova, and C. Grasset