

SS8.8 | Ecosystem development and critical zone research: Experimental ecosystem development research and coevolution of soils, landforms and vegetation

Conveners: Werner Gerwin, Jose Rodriguez, Shayli Dor-Haim, Jan Frouz, Mariano Moreno de las Heras, Patricia Saco, Omer Yetemen

Information for participants

- The displays will be discussed in the order given here (see next page)
- Time slots of 5 minutes (for the solicited paper in the beginning up to 10 minutes) for short introductions and discussion are planned for each display
- During the introductions by the authors all other attendees are kindly asked not to post any comments, all participants can ask questions afterwards
- Discussion of each display should be completed within the planned 5 minute time slots
- For a more detailed exchange please use the opportunity to individually comment displays also after the session

Order of displays for short presentations

Time	Display	Authors	Title
Solicited (chairs: Mariano Moreno de las Heras, Werner Gerwin)			
16:15-16:25	D2152	Carolina Martínez-Ruiz	Dynamics and patterns of plant development in restored mining areas. Practical examples
Part 1: Coevolution of soils, landforms and vegetation (chairs: Jose Rodriguez, Omer Yetemen, Mariano Moreno de las Heras)			
16:25-16:30	D2154	Vladimir Belyaev, Ilya Shorkunov, Ekaterina Garankina, Evgeniy Konstantinov, Alexey Rusakov, Yulia Shishkina, Pavel Andreev, and Tatiana Verlova	Deciphering the pedogenic and sedimentary archives and long-term landform dynamics to reconstruct complex landscape evolution within a lowland gully catchment over the Holocene
16:30-16:35	D2155	Andrea Román-Sánchez and Pavel Samonil	Spatial pedocomplexity in old-growth temperate forest driven by tree-uprooting: its formation and role in forest dynamics
16:35-16:40	D2170	Eliana Jorquera, Angelo Breda, Steven Sandi Rojas, Jose Fernando Rodriguez, and Patricia Saco	Assessment of morphodynamic evolution and changes in a mangrove wetland under current and future climate change scenarios
16:40-16:45	D2172	Nikul Kumari, Omer Yetemen, Ankur Srivastava, Jose F. Rodriguez, and Patricia M. Saco	Observations and Modelling Results Help to Understand Global Hillslope Asymmetry
16:45-16:50	D2173	Ankur Srivastava, Omer Yetemen, Nikul Kumari, and Patricia M. Saco	Influence of orographic precipitation on the co-evolution of landforms and vegetation
16:50-16:55	D2174	Claudia Schütt, Daniel Caviedes-Voullième, and Christoph Hinz	Exploring the effects of rainfall variability on banded vegetation
16:55-17:00	D2175	Juan Pablo Quijano Baron, Patricia Saco, Dominik Jaskierniak, and Jose Rodriguez	Soil carbon and soil moisture dynamic redistribution in a banded ecosystem
17:00-17:05	D2177	Felice Sartori, Donato Loddo, Ilaria Piccoli, and Antonio Berti	Weed infestation during the transition phase from conventional to conservation agriculture
17:05-17:10	D2180	Eileen Eckmeier, Simon Kübler, Akida Meya, and Stephen Mathai Rucina	The role of geology and climate in soil nutrient variability - potential drivers for large ungulate migrations in the Serengeti ecosystem (Northern Tanzania, East Africa)
Part 2: Experimental ecosystem development research (chairs: Werner Gerwin, Mariano Moreno de las Heras)			
17:10-17:15	D2156	Jose Schreckinger, Aline Frossard, Linda Gerull, Mark O. Gessner, and Michael Mutz	Soil and sediment microbial structure and function in intermittent stream corridors after a decade of catchment succession
17:15-17:20	D2157	Joana Sauze, Jacques Roy, Clément Piel, Damien Landais, Emmanuel S Gritti, Olivier Ravel, Hélène Lemoine, Abdelaziz Faez, Sébastien Devidal, and Alexandru Milcu	The European Ecotron of Montpellier: experimental platforms to study ecosystem response to climate change
17:20-17:25	D2158	Hans De Boeck, Simon Reynaert, Ivan Nijs, Karel Klem, Klaus Steenberg Larsen, Marcelo Sternberg, and Michel Boer	AnaEE: a European infrastructure for future-oriented experimental ecosystem research
17:25-17:30	D2161	Pedro Rojas, Daniel Caviedes-Voullième, and Christoph Hinz	Semi-automatic image analysis of spatiotemporal vegetation evolution in the Hühnerwasser catchment
17:30-17:35	D2163	Davood Moghadas and Annika Badorreck	Characterization of soil electrical conductivity from Chicken Creek Catchment using deep learning inversion of geophysical data
17:35-17:40	D2164	Martin Bartiška and Jan Frouz	Falcon constructed artificial catchment for whole ecosystem manipulation how we build it and what are the first results
17:40-17:45	D2165	Aimin Liao, Jiufu Liu, Hongwei Liu, Haixia Zhang, Niu Wang, and Weizu Gu	High-resolution hydrologic dynamics of the Nadadish experimental catchment in Chuzhou Hydrology Laboratory, China
17:45-17:50	D2166	Hongwei Liu, Jiufu Liu, Jin Lin, Wenzhong Wang, Xing Min, Hao Zheng, and Niu Wang	Geochemical and Isotope Tracers Reveal the Runoff Components Characteristics and the Ecohydrologic Influences at the Qinghai-Tibet Plateau