



UFZ-Seminar

Research Unit



Water Resources and Environment



23 July 2019, 3 p.m.

Seminar Room 1, Brückstr. 3a, Magdeburg

Daniel von Schiller

University of the Basque Country (UPV/EHU)

will give a talk on:

Biogeochemical cycling in intermittent streams: an aquatic-terrestrial perspective

Intermittent streams, which cease to flow and dry at some points in space and time, can be found on every continent and may represent over half of the global river network length. Furthermore, their extent is increasing due to the combined effects of climate change, water abstraction and land use change. Nonetheless, intermittent streams are frequently unmapped and unprotected, and their role in the biogeochemistry of river networks is largely unknown. Due to their recurrent transitions between dry and wet phases, the study of intermittent streams represents a fascinating challenge that requires the combination of conceptual and methodological approaches from aquatic and terrestrial disciplines. Here, I will summarize what we know so far about biogeochemical cycling in intermittent streams and identify emergent questions and research needs in this area. My ultimate goal is to convince the audience that by incorporating the role of intermittent streams from an aquatic-terrestrial perspective, we will greatly improve current theoretical and empirical models of river ecology and biogeochemistry.