

Frontiers in Real-time Ecohydrology

Leibniz-Institute of Freshwater Ecology and Inland Fisheries, IGB, Berlin
Berlin-Brandenburg Institute of Advanced Biodiversity Research, BBIB, Berlin

18 JUNE 2014
10.30 – 12.15

BERLIN BOTANICAL GARDEN MEUSEUM

It is well known that short-term events may be critical for the maintenance of populations or for the total annual fluxes of material in catchments. Therefore, it is evident that synoptic studies or regular monitoring are insufficient in explaining some of the fundamental patterns and processes in ecosystems. There is a need, and an opportunity, to carry out ecohydrological studies immediately following major natural and human-induced disturbances. Recent technological innovations such as novel sensors, unmanned air-vehicles, and the miniaturisation of animal-tracking facilities allow studying processes at an unprecedented spatiotemporal resolution. For example, it would be a large step forward if we could study the behaviour of organisms during single flood events – and can link the organism's behaviour to the concurrent hydrogeomorphic processes. In this workshop, we would like to discuss the opportunities and limits in studying hydrological and ecological processes in real-time.