

KOLLOQUIUM

Institut für Hydrologie, Albert-Ludwigs-Universität Freiburg



14. Juni 2012, 16 ct – 18 Uhr
Hörsaal Fahnenbergplatz
(Rektoratsgebäude)

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Throughfall and stemflow: ecohydrological importance of deciduous forest canopies

Throughfall and stemflow are two important ecohydrological processes affecting the spatial redistribution of water and solutes to the forest floor. This talk examines the effects of deciduous forest canopies on the hydrology and biogeochemistry of forests by tracing the transport of water and solutes through the canopy. Processes of atmospheric deposition, precipitation partitioning, leaching, and washoff are discussed in the context of ecohydrology. Emphasis is placed on the variability (spatial and temporal) of throughfall and stemflow fluxes in relation to meteorological conditions and tree species and how this consequential variability in hydrologic and solute fluxes may inform “hot spot” and “hot moments” theories of biogeochemistry.