

Research Unit Forest Dynamics - colloquium

Date: 5.12.2023

Time: 10:30

Room: Engler-Saal

Duration: 25 minutes

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Title: Disentangling water fluxes in forest ecosystems

Abstract:

The destiny of a droplet becomes uncertain upon reaching the surface of a forest canopy or the soil. It could either evaporate into the atmosphere, follow the soil-plant route leading to transpiration, or find its way into various pathways that ultimately lead to the freshwater system. Disentangling and quantifying these water fluxes within the forest ecosystem is essential for addressing nitrate leaching and drought stress. This presentation will explore several case studies utilizing isotope tracing and modelling as potent tools for dissecting water partitioning, water storage in the soil and source water attribution for trees.