BayCEER Kolloquium

Lectures in Ecology and Environmental Research

Summer 2022



Donnerstag/Thursday 23.06.2022 12:15 in H8, GEO



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Quantification of Soil Water Fluxes - Challenges and Opportunities

Global change has put pressure on many water resources worldwide. For sustainably managing water resources, the knowledge of water fluxes is crucial. However, it is particularly challenging to quantify water fluxes in the unsaturated zone, such as groundwater recharge or evapotranspiration, and how pollutants, such as pesticides and microplastic, are transported through the unsaturated zone. I will present several examples from our research using oxygen and hydrogen isotopes of water for quantifying water fluxes and transport in the unsaturated zone in different climatic regions.

I will also focus on the estimation of soil hydraulic properties using inverse mathematical modelling approaches and how model uncertainties affect the simulation and prediction of soil water fluxes now and in future.

Bayreuth Center of Ecology and Environmental Research





The lectures are an interdisciplinary platform for students, junior and senior scientists. Scan the QR code or visit our homepage for abstracts and further information: www.bayceer.uni-bayreuth.de/kolloquium/