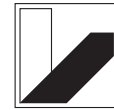


# BayCEER Kolloquium

Lectures in Ecology and  
Environmental Research

Summer 2023



UNIVERSITÄT  
BAYREUTH

Donnerstag/Thursday

**25.05.2023**

**12:15 in H6, GEO**



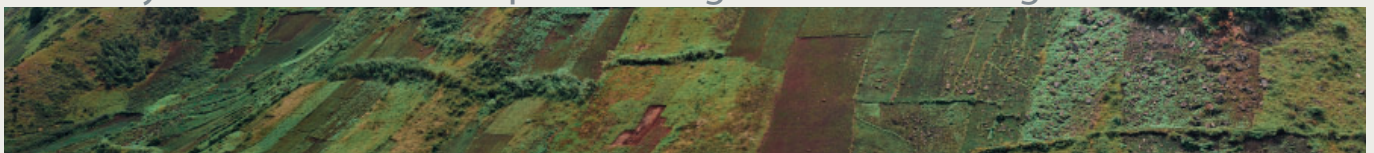
**Prof. Sebastian Dötterl**

Professur für Bodenressourcen, ETH Zürich

## **Nature based solutions for climate mitigation in the Global South: When missing understanding for tropical soils and ecosystems meets socio-ecological reality**

Improving carbon storage in soils and the biosphere is a promising nature-based solution (NBS) to combat climate change and is receiving more and more attention with little understanding how this can be achieved globally and in a sustainable way. Many of our expectations in finding NBS rely on vast, less developed—but nevertheless populated and rapidly changing—regions of the Global South. At the same time, concepts and assumptions about which solutions work for increasing long-term carbon capture in ecosystems are based on knowledge gathered largely from the Global North in often fundamentally different environmental settings and development history.

In my talk I will illustrate with examples from the socio-ecological context of the African Tropics how these knowledge gaps and our lack of understanding of tropical carbon and nutrient cycling mislead us into thinking that we can find easy solutions in the Tropics to mitigate climate change.



Bayreuth Center of Ecology  
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