



Highly eroding landscape in the Eastern Congo Basin

SOIL RESOURCES

Raising awareness for the limitations, dynamics and services of soil resources in order to improve their preservation and to better sustain human nutrition.



Research Areas

- Global scale erosion and soil carbon cycling in collaboration with earth system modelers;
- Regional scale nutrient and soil dynamics using remote sensing and modeling approaches;
- Local scale experimental work on biogeochemical cycling in relation to pedogenesis, climate, geology and human activity.

Regions

Switzerland, Germany, Democratic Republic of Congo, Rwanda, Uganda, Antarctica, Norway.

Partners

Ghent University; Université Catholique de Louvain; Université Catholique de Bukavu; Université de Lubumbashi; ICRAF; IITA; Max Planck Institute for Biogeochemistry.

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Contribution to the WFSC

The Soil Resources group studies environmental processes, in particular related to soil development and biogeochemical cycles. The aim is to understand how soil processes interact, and how they are affected by human activity. The research is often located in under-represented areas that are undergoing strong changes in climate and land use. A particular hot spot of the group's work is in tropical Africa, which is characterized by population growth and rapid deforestation. Here, more sustainable soil management and improvement of soil health will be essential for future food security.



Prof. Sebastian Dötterl

