



PhD course:

Assessing Soil Erosion Risk

Location: Aarhus University, Department of Agroecology, 8830 Tjele, Denmark

Date: 6. August – 12. August 2017

Volume: 5 ECTS

Target group: PhD students within physical geography, soil science, agricultural science, environmental science and engineering or related fields. Qualified MSc students are also welcome.

Teachers:

Prof. Nikolaus J. Kuhn, University of Basel, Switzerland

Associate Prof. Goswin Heckrath, Aarhus University, Denmark

Course content:

About 80% of the world's land degradation is caused by wind and water erosion. Hence, vital conservation planning in agricultures around the world requires comprehensive erosion risk assessment. This hands-on course introduces students to three important methodological approaches to erosion risk assessment, i.e. experimental measurements, mapping, and modelling, for generating process understanding at different spatial and temporal scales.

Following introductory lectures student teams will conduct field studies, modeling exercises, and erosion risk scenario analyses on the basis of the data collected. Soil erosion measurements will be done *in situ* using a portable rainfall simulator. Additionally, the study area is being surveyed with UAVs and soil mapping. A short introduction into analysis of aerial images is given in this context.

The course will thus enable students to interpret key soil erosion risk factors both in a dynamic process and in a landscape context.



Read more: <http://agro.au.dk/phd-uddannelse/phd-courses/assessing-soil-erosion-risk/>