

## RESEARCH CLINIC

### General information

Supervisor:	Paul Hudson ( <a href="mailto:p.f.hudson@luc.leidenuniv.nl">p.f.hudson@luc.leidenuniv.nl</a> )
Title of clinic:	Muddy Boots & Muddy Waters: Riparian and coastal wetland soils
Number of students:	3
Major ( <i>if applicable and approved by the Major Convener</i> ):	Elective or EES
(Pre)requisites ( <i>if applicable</i> ):	Earth Systems Science (100-level)

This semesters version of the Muddy Boots & Muddy Waters RC examines wetland soils and sediments within coastal and riverine environments. The RC project consists of a combination of field work, laboratory work, and/or report writing and database analysis.

Field work to occur within nearby coastal wetlands in Scheveningen, and in riparian environments within the Rhine delta. Some riparian field work may require overnight stay and will be coordinated with student schedule in mind. Specific field work activities to include extracting sediment/soil cores from wetlands, installation of hydrologic monitoring equipment and data loggers, among other. Field work will occur with Hudson and LUC students.

Laboratory analysis will include particle size determination of wetland soils, characterization of organic material and soil carbon calculation, and statistical analysis to compute various indices for characterization of flood processes.

No prior experience with field or lab work is required, although a willingness to get muddy (and possibly wet!) is a bonus.

Being able to work in a team setting (with other LUC students and professors) and good communication skills are essential.

This research clinic extends over blocks 1+2.

*Please specify the tasks and activities, timeline, the learning aims and how they are assessed, i.e. what the deliverables will be.*

Tasks and activities (some combination, specific tasks to be worked out in consultation with student/s):

- field work assistance, installation of monitoring and sampling apparatus,
- laboratory work for sediment and soils analyses,
- data input and basic statistical characterization in spreadsheet (deliverable),
- report writing (deliverable),
- general support of research activities.