

## RESEARCH CLINIC

### General information

Supervisor:	Paul Hudson
Title of clinic:	Muddy Boots and Muddy Waters
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 project examines flood and environmental processes along the large rivers to examine the effectiveness of various types of river restoration projects. The project consists of a combination of field work, laboratory work, and/or report writing and database analysis.

The field work will be on the lower Rhine River system to extract sediment cores from the floodplain, to install sedimentation traps, and/or hydrologic instrumentation.

Laboratory analysis will include particle size determination of flood sediments from the Rhine River (and/or the Mississippi River), characterization of organic material, 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.

This research clinic extends over blocks 3+4.

### Students' tasks and activities

*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, to be determined in consultation with student):

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