

RESEARCH CLINIC

General information

Supervisor:	Paul Hudson
Title of clinic:	Muddy Boots and Muddy Waters (examining environmental restoration strategies along large rivers)
Number of students:	Max. 4
Major:	Elective or EES
(Pre)requisites (<i>if applicable</i>):	Earth Systems Science (100-level)

Research context

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 two components, field work and laboratory analysis.

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

Laboratory analysis will include particle size determination of flood sediments from the Rhine River (and/or the lower 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.

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.