

## RESEARCH CLINIC

### General information

Supervisor:	Paul Hudson
Title of clinic:	Digital Landscapes
Number of students:	Max. 2
Major ( <i>if applicable and approved by the Major Convener</i> ):	Elective or EES
(Pre)requisites ( <i>if applicable</i> ):	No prerequisites.

### Research context

In this project we utilize different forms of geospatial data to characterize landscape change and human impacts to riverine lowlands and deltas, which are especially vulnerable to global environmental change. The data sets possibly include historic archival sources, recent hydrologic data and satellite imagery. These datasets are integrated and statistically analyzed. Students will gain experience with specific facets of a larger multifaceted project and develop skill sets in one or more of the following: obtaining archival data and historic maps, spreadsheet analyses and graphics, GIS overlay analyses, applied statistics, and report writing. For this coming semester (blocks 3+4) the following two facets of the projects are offered.

#### Requirements / notes:

- completion of Introduction to GIS
- specific responsibilities determined based on student interests and preparation

#### Tasks and activities (some combination, to be determined in consultation with student):

- Digitization of historic maps,
- Georeference and overlay analyses of maps from different historic periods,
- Integration of historic data with satellite imagery and future landscape planning strategies,
- Report writing,
- General support of research activities.