

RESEARCH CLINIC

General information

Supervisor:	Paul Hudson
Title of clinic:	Digital Landscapes
Number of students:	3
Major (<i>if applicable and approved by the Major Convener</i>):	Elective or EES
(Pre)requisites (<i>if applicable</i>):	GIS

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 one or more of the following: historic archival sources (such as old maps), recent hydrologic data, and/or 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, cartography, applied statistics, and report writing. For this coming semester (blocks 3+4) the following two facets of the projects are offered.

Requirements / notes: - specific responsibilities determined based on student interests and preparation

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):

- 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.