

Geomatics Lab/Biogeography Lab – MSc Thesis

Geography Department, Humboldt-Universität zu Berlin



Armed conflicts and development aid: land-use change in Northern Afghanistan 2001-2015:

Understanding land use changes and the role of violent incidents and international development aid in Northern Afghanistan between 2001 and 2015 using Landsat imagery.

Supervisors

Benjamin Jakimow, Matthias Baumann

Thematic Background

Remote sensing, GIS, Land-Use Science

Objectives

- Map land-cover/land-use change in Afghanistan using Landsat time series from 1984-2015.
- Understand the driver of the land-use change pattern using a suit of environmental and socio-economic factors using regression techniques (e.g. panel-model approaches), with particular emphasis on variables that describe conflict.
- Interpret the results under the umbrella of foreign development aid between 2001 and 2014 (the period of the military operations EOF-A and ISAF).

Target group

Master students with a methodological focus on remote sensing, GIS and scientific programming and a thematic background in land-use science

Pre-requisites (please contact the supervisors for specifications)

- Relevant skills and training in GIS, remote sensing
- Basic knowledge in scientific programming with R/Python/Matlab
- Knowledge of basic land-use science concepts

Dates, Duration & Application procedure

- No specific starting dates; duration 6 month
- Interested students are asked to contact one of the supervisors