

# Master theses available



Topic:

## Historical changes in land cover and fluvial morphology in large alpine river basins



Universität für Bodenkultur Wien  
Department für Wasser-Atmosphäre-  
Umwelt

Institute für Hydrobiology and  
Aquatic Ecosystem Management

Gregor-Mendel-Straße 33  
1180 Vienna

In the framework of the interdisciplinary research project „*POLicy COordination in FLOOD risk management*“ (*POCO-FLOOD*), funded by the Austrian Academy of Sciences (Research Programme “*Earth System Sciences*”, project leader: Walter Seher, IRUB/BOKU), one work package aims at the reconstruction of the large-scale changes in land cover and river morphology in the Austrian Alps since the early 19th century.

Main tasks of several master theses will be the GIS-based reconstruction based on the Franciscan Cadastre and Military Surveys using ArcGIS 10.

In addition, the historical situation shall be compared to current conditions. The results will be used for other work packages of the research project.



<https://mapire.eu>

### Needed professional skills:

- Knowledge/interest in river morphology and land cover/uses
- (Basic) skills in ArcGIS or willingness to acquire new GIS skills
- Willingness to intensively work with historical sources (maps and literature)
- Start of the theses: April 2019

Contact: DI Dr. Severin Hohensinner, 01/47654-81203; [severin.hohensinner@boku.ac.at](mailto:severin.hohensinner@boku.ac.at)