Module title: Advanced Remote Sensing Applications
Abbreviation: 04-GEO-APP5-212-m01

Module coordinator:
holder of the Professorship of Remote Sensing

Module offered by:
Institute of Geography and Geology

ECTS: 5
Method of grading: numerical grade
Only after succ. compl. of module(s): --

Duration: 1 semester
Module level: graduate
Other prerequisites: --

Contents:
This course provides an overview of an scientific field that has been emerging around the interface of Earth observation and Movement Ecology or movement data analysis in general. The course covers the fundamentals of movement tracking in the context of Earth observation and takes a look at the recent history and bleeding edge developments in combining Earth observation and movement tracking. Furthermore, the course sheds light on potential analytical outcomes that could be achieved in the near future once the methodologies from the clashing disciplines have been further melted to allow advanced mixed-data analyses.

Intended learning outcomes:
Participants will gain a thorough and comprehensive overview and understanding of the interface of Earth observation and movement data analysis. The course aims to build basic knowledge that enables participants to think independently and critically within the field covered by the course and allows them to creatively think of the potentials and possible analytical treasures that one might be able to lift by combining Earth observation and movement data in the near future.

Courses:
(type, number of weekly contact hours, language — if other than German)
S (1) + Ü (1)
Module taught in: English

Method of assessment:
(type, scope, language — if other than German, examination offered — if not every semester, information on whether module is creditable for bonus)
a) presentation (approx. 30 minutes) or b) preparing a poster (approx. 10 hours total) or c) term paper (approx. 15 pages)
Assessment offered: Once a year, summer semester
Language of assessment: English or German (assessment will be held in English; in addition, the examiner may, where possible, decide to hold assessment in German)
creditable for bonus

Allocation of places:
--

Additional information:
--

Referred to in LPO I:
(examination regulations for teaching-degree programmes)
--

Module appears in:
Master’s degree (1 major) Applied Earth Observation and Geoanalysis (EAGLE) (2021)