Module title: Land Surface Dynamics
Abbreviation: 04-GEO-APP1-182-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:
Topics cover most aspects of remote sensing based assessment of Land Surface Dynamics. Topics such as snow cover dynamics, water body dynamics, forest cover and further vegetation dynamics, urbanization dynamics, coastal dynamics, or dynamics of geophysical parameters such as land surface temperature or selected indices will be addressed. In these contexts we look at opportunities arising from optical-, multi-spectral- and radar sensors, as well as thermal imagery. Data availability and access, as well as typical software tools for handling of multispectral data or time series analyses will be addressed as well.

Intended learning outcomes:
Participants will gain a thorough and comprehensive overview and understanding of dynamic processes on the land surface that can be monitored using remote sensing imagery. Seminar papers or oral presentations will provide first experiences in scientific writing and presentation.

Courses:
S (2)
Module taught in: English

Method of assessment:
a) presentation (approx. 30 minutes) or b) preparing a poster (approx. 10 hours total) or c) term paper (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:
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Additional information:
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Referred to in LPO I (examination regulations for teaching-degree programmes):
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Module appears in:
Master’s degree (1 major) Applied Earth Observation and Geoanalysis (EAGLE) (2018)
Master’s degree (1 major) Applied Earth Observation and Geoanalysis (EAGLE) (2021)