Module description

Applications of Earth Observation

Module coordinator
holder of the Professorship of Remote Sensing

Method of grading
numerical grade

Duration
1 semester

Contents
The lecture addresses applications of remote sensing of the atmosphere, the oceans, and particularly the land surface. The presented materials include among others applications in geography, environmental planning, ecology, biology, oceanology, soil science, geology, atmospheric science, but also e.g. pollution control (monitoring) and natural resource management. Which research questions can be answered by the means of Earth Observation and geoanalysis? The lecture comprises commonly used methodological approaches for the derivation of the different parameters. The covers the issue of implementation of the remote sensing technology into practice, e.g. the implementation of information systems. It outlines at selected examples, how remote sensing based results can be transferred to the workplace of professionals also beyond science.

Intended learning outcomes
The lecture gives a broad overview about the applications of remote sensing. The participants will learn how the different disciplines of environmental sciences and studies utilize the potentials of active and passive sensors for quantification and assessment.

Courses
V (2)
Module taught in: English

Method of assessment
written examination (approx. 45 minutes)
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)

Allocation of places
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Additional information
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Module appears in
Master’s degree (1 major) Applied Earth Observation and Geoanalysis (EAGLE) (2016)
Master’s degree (1 major) Applied Earth Observation and Geoanalysis (EAGLE) (2018)