

Module title		Abbreviation
Land Surface Dynamics		o4-GEO-APP1-182-mo1
Module coordinator		Module offered by
holder of the Professorship of Remote Sensing		Institute of Geography and Geology
ECTS	Method of grading	Only after succ. compl. of module(s)
5	numerical grade	--
Duration	Module level	Other prerequisites
1 semester	graduate	--
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 (type, number of weekly contact hours, language — if other than German)		
S (2) 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 (15 pages) 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) Assessment offered: Once a year, summer semester creditable for bonus		
Allocation of places		
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Additional information		
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Workload		
150 h		
Teaching cycle		
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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)		