

Module title					Abbreviation
Spatial Modeling and Prediction					04-GEO-MET1-162-m01
Module coordinator				Module offered by	
holder of the Professorship of Remote S			Sensing	Institute of Geography and Geology	
ECTS Method of grading		Only after succ. compl. of module(s)			
5	nume	rical grade			
Duration		Module level	Other prerequisites		
1 semester		graduate			
Contents					
Different statistical methods will be applied for analysing spatial point patterns, such as vegetation samples or biodiversity related information. These results will be statistically predicted using methods such as GLM, GAM, Random Forest or MaxEnt. Implications of spatial point patterns as well as chosen environmental parameters will be discussed. All methods will be practically applied during the course using the programming language R					
Intended learning outcomes					
Within this course different methods to analyse point pattern statistically and conduct a spatial prediction are covered. Students will learn how to design such analysis, how to avoid caveats, troubleshoot errors and interpret the results.					
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					
Workload					
150 h					
Teaching cycle					
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) (2016)					
Master's degree (1 major) Applied Earth Observation and Geoanalysis (EAGLE) (2018)					
Master's degree (1 major) Applied Earth Observation and Geoanalysis (EAGLE) (2021)					
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