**Module title**: Selected Topics in Geography II  
**Abbreviation**: 04-GEO-RE2-162-m01

**Module coordinator**: holder of the Professorship of Physical Geography  
**Module offered by**: Institute of Geography and Geology

**ECTS**: 5  
**Method of grading**: numerical grade  
**Duration**: 1 semester  
**Module level**: graduate  
**Other prerequisites**: --

**Contents**
The emphasis of this course is on linking classic biogeographical theory with current research outcomes. The aim is to learn what the historical and ecological reasons are behind the geographical distributions of living organisms and their communities, and the dynamic nature of these distributions. In this course we will answer the following questions: What are the patterns of plant distribution and diversity? What mechanisms explain these patterns? What are the theoretical and technical basic principles for the modelling of species distributions? What is the aim of the study of species distributions in the context of the "biodiversity crisis" and a dramatically changing environment? How can remote sensing techniques be useful for this kind of studies? After completing the course, each student should have: Gained or developed a familiarity and functional understanding in each of the main themes outlined on the course timetable and demonstrated competence in discussing and integrating across these themes.

**Intended learning outcomes**
The module deepens student's knowledge on selected environmental theories and approaches and their relevance for applied remote sensing.

**Courses** (type, number of weekly contact hours, language — if other than German)

V (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)

written examination (approx. 45 minutes)  
Assessment offered: Once a year, winter 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)

**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) (2016)  
Master's degree (1 major) Applied Earth Observation and Geoanalysis (EAGLE) (2018)