Module title: Climate change, implications and protection
Abbreviation: 04-Geo-MAT1-152-m01

Module coordinator: holder of the Professorship of Climatology
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:
The focus is on the variability of atmospheric features at climatological time scales. In particular, anthropogenic climate change is assessed against the background of natural climate variations. Observed indications of climate change and climate model projections will be illustrated, ecological and socioeconomic implications be derived and needs of climate protection be discussed.

Intended learning outcomes:
The students gain substantial insights into the mechanisms of climate variability on the basis of physically and mathematically explicit assessments of atmospheric processes. Especially, the interplay between natural and anthropogenic climate factors will be elucidated.

Courses:
(type, number of weekly contact hours, language — if other than German)
V (2)
Module taught in: German and/or 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. 60 minutes)
Assessment offered: Once a year, winter semester
Language of assessment: German and/or English

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 Human Geography (2015)
Master’s degree (1 major) Applied Physical Geography (2015)
Master’s degree (1 major) Applied Physical Geography (2016)
Master’s degree (1 major) Applied Human Geography (2017)