

<b>Module title</b>		<b>Abbreviation</b>
Synoptic meteorology and weather forecasting		04-Geo-MAT2-152-m01
<b>Module coordinator</b>		<b>Module offered by</b>
holder of the Professorship of Climatology		Institute of Geography and Geology
<b>ECTS</b>	<b>Method of grading</b>	<b>Only after succ. compl. of module(s)</b>
5	numerical grade	--
<b>Duration</b>	<b>Module level</b>	<b>Other prerequisites</b>
1 semester	graduate	--
<b>Contents</b>		
<p>This module deals with the variability of atmospheric dynamics at the synoptic time scale, i.e. hours to days. The main focus is on synoptic meteorology which describes weather phenomena in the extratropics and aims at weather forecasting. The module presents numerical methods in atmospheric physics, meteorological field measurements, interpretation of forecasted atmospheric fields and computer-based data analyses.</p>		
<b>Intended learning outcomes</b>		
<p>The students gain substantial insights into the mechanisms of weather variability on the basis of physically and mathematically explicit assessments of atmospheric processes. The module aims at enhancing skills in maths and physics, in meteorological measurement techniques, in programming and in writing of measurement reports.</p>		
<b>Courses</b> (type, number of weekly contact hours, language – if other than German)		
Ü (2) Module taught in: German and/or English		
<b>Method of assessment</b> (type, scope, language – if other than German, examination offered – if not every semester, information on whether module is creditable for bonus)		
<p>oral examination of one candidate each or oral examination in groups (approx. 15 minutes per candidate each) Assessment offered: Once a year, summer semester Language of assessment: German and/or English</p>		
<b>Allocation of places</b>		
<p>15 places. Should the number of applications exceed the number of available places, places will be allocated according to the number of subject semesters. Among applicants with the same number of subject semesters, places will be allocated by lot. A waiting list will be maintained and places re-allocated by lot as they become available.</p>		
<b>Additional information</b>		
--		
<b>Workload</b>		
150 h		
<b>Referred to in LPO I</b> (examination regulations for teaching-degree programmes)		
--		
<b>Module appears in</b>		
<p>Master's degree (1 major) Applied Physical Geography (2015) Master's degree (1 major) Applied Physical Geography (2016)</p>		