GEW-ME05 Geoscientific Data Science		Number of credit points (LP): 6		
Module type (mandatory or elective module)	Elective module			
Contents and qualification objectives of the module	**Contents** Advanced analysis and interpretation of geophysical, geological, and geochemical data with the goal of understanding, modeling, and predicting complex Earth system processes. **Qualification goals** Students - acquire advanced knowledge in the analysis, interpretation and evaluation of geoscientific data - are able to better understand the laws of coupled processes in the Earth system and make predictions - learn advanced application of data analysis methods and interpretation of complex geoscientific relationships and gain a deeper understanding of Earth system interactions			
Module examination (number, form, scope)	An examination of the following forms: Term paper, 8-12 pages Written exam, 90 minutes Oral exam, 30 minutes			
Self-learning time (in time hours)	120			

Events (teaching forms)	Contact time (in semester hours)	Secondary examination (number, form, scope)		Partial module examination accompanying the course (number, form, scope)
		For the completion of the module	For admission to the module examination	
Lecture and exercise (lecture and exercise)	2V+2T	-	-	-

Frequency	Winter semester
Prerequisite for participation in the module	None
Teaching unit(s)	Geosciences