

Master of Sciences “Physical Climate: Meteorology and Physical Oceanography”

Sem.	Compulsory Modules (C)		Σ cp	Compulsory Elective Modules (CE)			Σ cp	Specialization Modules (SP)		Σ cp	Σ cp
	General	Climate		Oceanography	Meteorology	Climate		Examples			
1	Advanced Geophysical Fluid Dynamics** (climAGFD) V2 + PÜ1 / CP 5	Oceanography-Meteorology Seminar ** (climOMSEM) S2 / CP 5	10	Advanced Physical Oceanography: Thermohaline Circulation** (climAPO) V2+PÜ1 / CP 5	Advanced Meteorology: Stratospheric Physics & Dynamics ** (climAME) V2+ PÜ1 / CP 5	Advanced Physical Climate: Climate Feedbacks** (climAPC) V2+ PÜ1 / CP 5	5	Meteorological Lunch Seminar (climMESEM) S2 / CP 5 - offered every semester Ocean Circulation and Climate Dynamics Colloquium (climCOL) S1/ CP 2 - offered every semester Environmental Science Summer School (climSCHOOL) CP 5 Ocean and Climate Physics Research Internship (climINTERN) CP 5		15	30
2	Data Analysis and Statistics * (climDAT) V2 + PÜ1 / CP 5	Climate Seminar * (climCSEM) S2 / CP 5	10	Advanced Physical Oceanography: Wind-driven Circulation * (climAPO) V2 + PÜ1 / CP 5	Advanced Meteorology: Tropospheric Physics & Dynamics*** (climAME) V2+ PÜ1 / CP 5	Advanced Physical Climate: Regional Climate Variability*** (climAPC) V2, PÜ1 / CP5	5	Ocean Sustainability (climSUSTAIN) CP 5 V2+ Colloq. 2 /CP 6 Modern Aspects in Meteorology I: Climate Modeling (climMEMODEL) V2 + S1 / CP 5 Modern Aspects in Meteorology II: Data Assimilation (climMEASSIM) V1/S1/PÜ 1 / CP 5 Modern Aspects in Meteorology III: Carbon Cycling in a Changing Climate (climMECARBON) V1/S1/PÜ1 / CP 5	15	30	
3	Numerical Methods and Models** (climNUM) V2 + PÜ1 / CP 5	Oceanography-Meteorology Seminar ** (climOMSEM) S2 / CP 5		Advanced Physical Oceanography: Thermohaline Circulation** (climAPO) V2 + PÜ1 / CP 5	Advanced Meteorology: Stratospheric Physics & Dynamics ** (climAME) V2+ PÜ1 / CP 5	Advanced Physical Climate: Climate Feedbacks** (climAPC) V2+ PÜ1 / CP 5	5	Modern Aspects in Meteorology IV: Cloud Physics (climMECLOUD) V2+S1 / CP 5 Physical Oceanography Lunch Seminar (climPOSEM) S2 / CP 5 - offered every semester Modern Aspects in Oceanography I: Tropical Ocean Dynamics (climPOTROPIC) V2 + S1 / CP5 Modern Aspects in Oceanography III: The El Niño-Southern Oscillation (climPOENSO) V2 +S1 / CP5	15	30	
4	Master Thesis including a presentation of the results (climTHES) / CP25		25		Advanced Meteorology: Tropospheric Physics & Dynamics*** (climAME) V2+ PÜ1 / CP 5	Advanced Physical Climate: Regional Climate Variability*** (climAPC) V2, PÜ1 / CP5	5	Modern Aspects in Oceanography IV: Shallow water analogues of ocean/atmosphere processes (climPOSHALLOW) V2 + S1 / CP5 Modern Aspects in Oceanography V: Ocean General Circulation Modelling (climPOOGCM) V2 + S1 / CP5 Modern Aspects in Physical Oceanography VI: The modelled wind-driven and thermohaline circulation (climPOMODCIRC) V2 + S1 / CP5 As well as other modules from the Faculty of Mathematics and Natural Sciences	0	30	
			55				20			45	120

* every summer semester

** because of alternating lectures, modules have to be taken in 1. or 3. semester

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