



## **Ocean Circulation and Climate Dynamics Colloquium**

Monday 16.02. 11:00 am

Room 5-1.214



### **Dr. Martin Butzin Marine radiocarbon simulations for the past 50,000 years**

The oceans are the largest reservoir of radiocarbon ( $^{14}\text{C}$ ), which is the most important dating tool for the last 50,000 years. Observations of dissolved  $^{14}\text{C}$  are a benchmark for ocean circulation models and are often used to infer present and past states of ocean ventilation. In my talk I will give an introduction to the marine  $^{14}\text{C}$  cycle and its modelling. One focus will be on the simulation of marine  $^{14}\text{C}$  archives at the sea surface, which are (still) important ingredients of the atmospheric IntCal  $^{14}\text{C}$  calibration curves that form the backbone of  $^{14}\text{C}$  dating.



More Infos

HELMHOLTZ