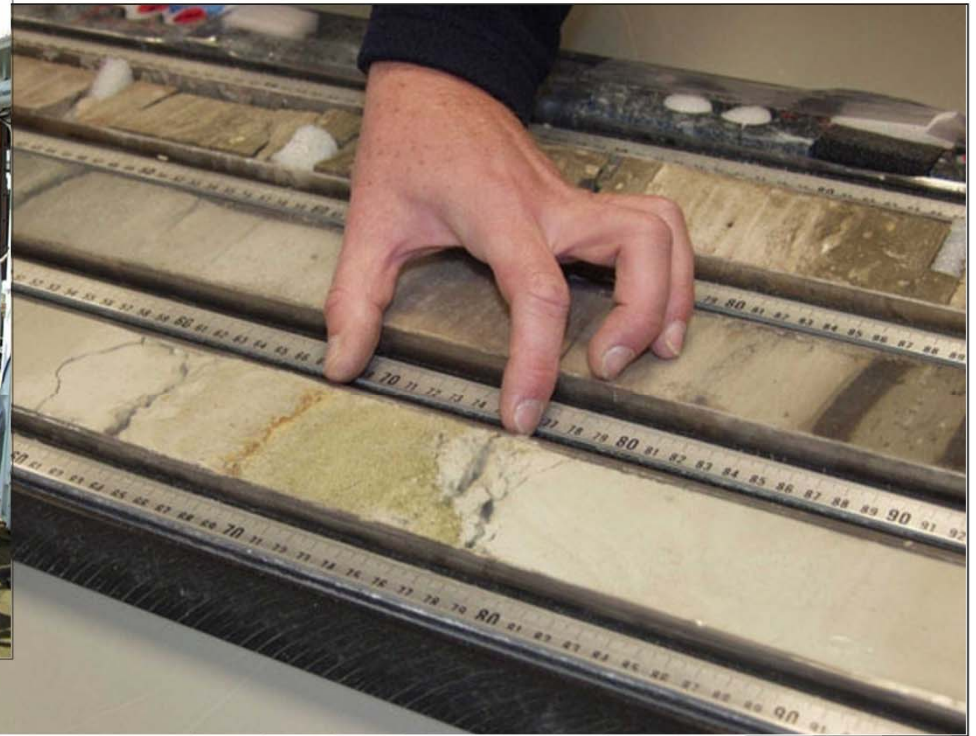
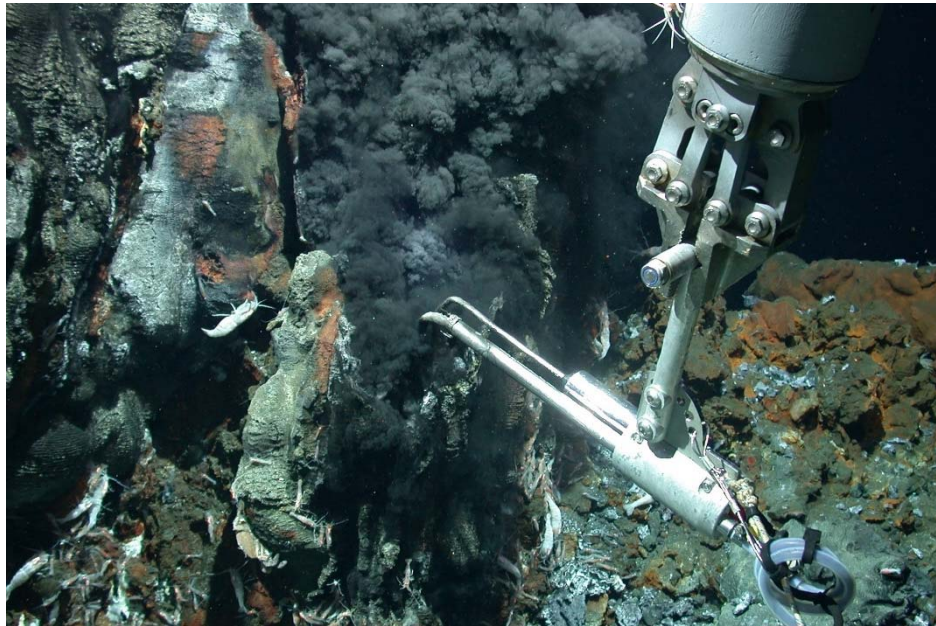


# Marine Geosciences in Bremen





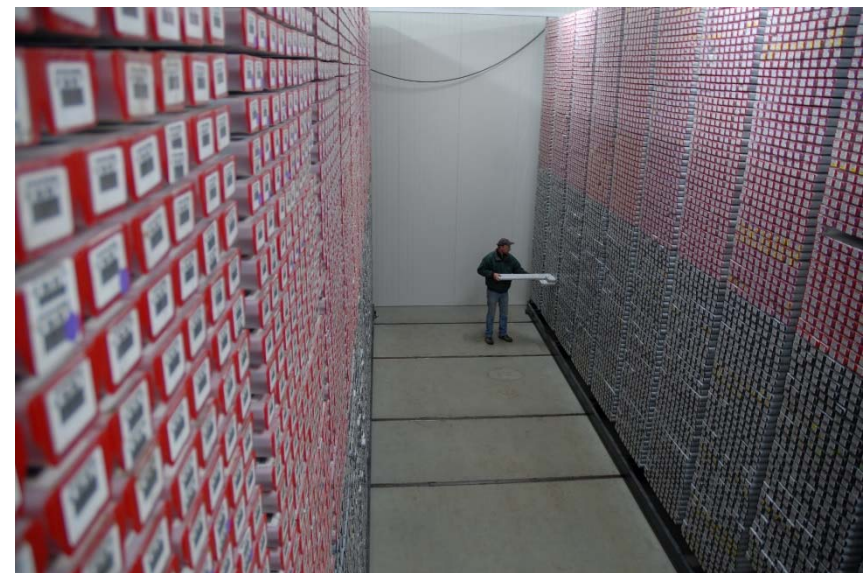
postgraduate program

Master of Science

Marine Geosciences

Introduction

January – 19, 2015,  
University of Bremen



## In brief

Degree: Master of Science  
(M.Sc.) Marine Geosciences

Duration: 2 years

Admission requirements:  
B.Sc. in a geoscientific field  
English proficiency C1

Teaching language: English

Application deadline: April 30

Programme start: October



Keine Mindestnote

30 CP in Mathe, Physik,  
Chemie und/oder Bio

60 CP in  
Geowissenschaften

# Marine Geosciences

International Masters Programme at the University of Bremen

Biogeochemical processes

Marine resources and geotechnology

Climate change

Physics and petrology of the ocean crust

Marine environmental archives

Sedimentary structures and processes

## Programme structure

Core Subject A	Core Subject B	Core Subject C	Conf.	1 <sup>st</sup> year
Core S. A	Core S. B	Core S. C	Marine Field and Lab Practice	
Geoscientific Project		Research Seminar		2 <sup>nd</sup> year
Master Thesis				

## Study plan of the first year

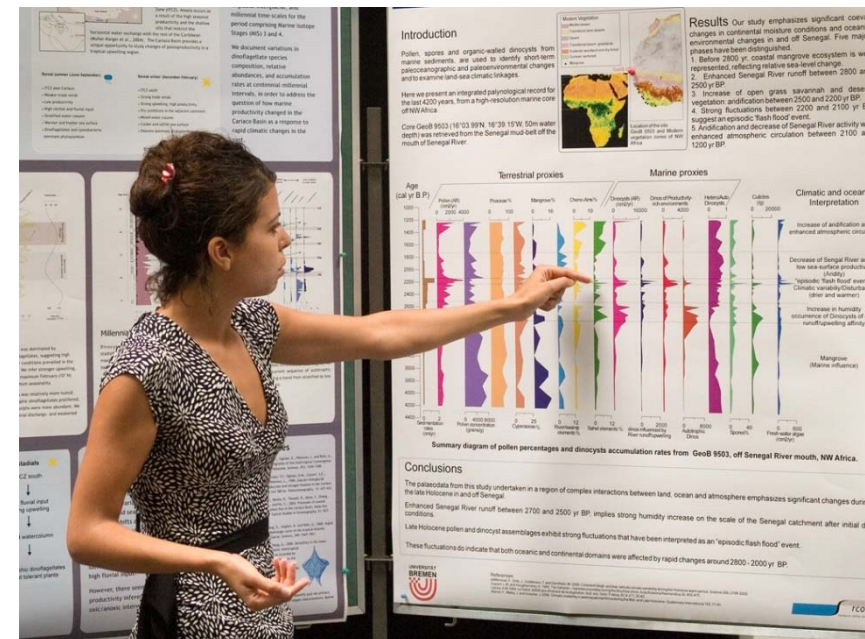
M.Sc. Marine Geosciences - Study plan						
1st year (60 CP)	Winter semester	Core Subject A (9 CP) selected module of C1 - C6	Core Subject B (9 CP) selected module of C1 - C6	Core Subject C (9 CP) selected module of C1 - C6	Master Conference (3 CP)	
		C1 Climate Change I: Fundamentals C2 Marine Environmental Archives: Methods C3 Biogeochemical Processes: Concepts C4 Marine Resources and Geotechnology I C5 Sedimentary Structures and Processes: Shelves and Passive Margins C6 Formation and Evolution of the Ocean Crust			Current geoscientific topics	
	Summer semester	Core Subject A (6 CP) consecutive module of C7 - C12	Core Subject B (6 CP) consecutive module of C7 - C12	Core Subject C (6 CP) consecutive module of C7 - C12	Marine Field and Lab Practice (12 CP)	
		C7 Climate Change II: Models and Data C8 Marine Environmental Archives: Project C9 Biogeochemical Processes: Projects C10 Marine Resources and Geotechnology II C11 Sedimentary Structures and Processes: Active Margins C12 Convergent Margin and Intra-Plate Processes			Marine, coastal and marine-terrestrial field and/or laboratory exercises	

# Marine Geosciences: first year mandatory modules

## Master conference:

The aim of the module is the organization of a geosciences conference over two days. The students decide on the scientific focus of the conference and prepare the scientific program regarding themes and sessions.

Talks will be presented by the students as well as by in-house and external speakers. The students are responsible for the development of the program, time scheduling, speaker invitation and the assignment of activities.



## Marine Geosciences: first year mandatory modules

### Marine field and lab practice:

- A broad and open spectrum of field- and offshore marine courses
- Advanced training in the field and in offshore marine settings
- Learn how to analyse and interpret marine environmental archives and paleoceanographic and paleoclimatic records.
- Courses comprise combined lectures and excursions as well as integrated field campaigns and educational cruises.



# Marine Geosciences: compulsory elective modules in the first year

## Core subjects:

Take three out of six core subjects offered.

Each with a winter- (9 CP) and a summer term module (6 CP).

## Alternatives:

- If you are fluent in German one core subject can be taken from the postgraduate program MSc Geowissenschaften
- If you are well qualified in physics you can choose courses from the postgraduate program Environmental Physics (PEP) in the amount of 15 CP.  
Please visit <http://www.geo.uni-bremen.de/page.php?pageid=663>



Biogeochemical Processes  
Climate Change  
Marine Environmental Archives

Marine Resources and Geotechnology  
Physics and Petrology of the Ocean Crust  
Sedimentary Structures and Processes



2nd year (60 CP)	Winter sem.	<b>Geoscientific project</b> 15 CP	<b>Geoscientific research seminar</b> 15 CP
		Initiation and management of a self-designed research project	Development of a sound research proposal for MSc thesis, discussion of the scientific goals and methods to be used
Summer sem.	<b>Master Thesis</b> 30 CP		
	Independent scientific study resulting in a written essay (time period: 22 weeks) Final colloquium (presentation and defense)		

# Marine Geosciences

International Masters Programme at the University of Bremen

---

## Requirements

- Explicit interest in marine geosciences
- Bachelor of Science in a geoscientific field (a qualification in marine sciences will be assessed regarding specialisation)
- Very good command of the English language (English proficiency test, level C1 after CEFR)
- Capacity to think in four dimensions
- Ability to work both independently and  
as part of a team
- Intercultural competence
- Willingness to participate in partly  
strenuous field courses



## Marine Geosciences

## What is important?

