bio780 - Biodiversity of Littoral Communities

Module label: Biodiversity of Littoral Communities
Module code: bio780
Credit points: 15.0 KP
Workload: 450 h
Used in course of study: Master's Programme Biology > Background Modules

Module responsibility
- Thomas Glatzel

Authorized examiners
- Thomas Glatzel
- Pedro-Miguel Martinez-Arbizu

Module counseling
- Pedro-Miguel Martinez-Arbizu

Entry requirements
Safe apnoediving with aptitude test and medical fitness certificate

Skills to be acquired in this module
+ deepened knowledge of biological working methods
+ ability to perform independent biological research
++ teamwork
+ ethics and professional behaviour
+ project and time management

By actively participating in this module students acquire qualifications in the following fields:
Biological oceanography, marine biology and marine ecology:

- Geological formation history of the Mediterranean Sea and Atlantic Ocean, respectively, or the Red Sea and adjacent seas
- Oceanography and hydrology
- Development of the faunal and floral composition of the Atlantic Ocean, the Mediterranean Sea and the Mediterranean region or the Red Sea (biogeography)
- Commercial utilization of the seas and its impacts
- Biotopes and biotic communities
- Evolution, systematics, morphology, modes of life, and ecology of selected animal groups
- Applying theoretical knowledge to real-world organisms/systems
- Improved and specialized knowledge of species
- Adaptation of life cycles
- Interaction between organisms and environment
- Dynamics of reef-building and reef-degrading processes
- Threat to coral reefs/protection of marine environments

Methods:

- Formulation and definition of scientific approaches and selection of methods
- Observation and investigation of organisms and their habitats (snorkelling/diving)
- Documentation of small research projects in groups in the style of a scientific publication
- Editorial work to prepare a module report
- Popular presentation of results to be published by the media and to be presented at the University

Further skills:

- Social engagement in groups/teamwork in projects
- Independent scientific work in groups
- Improvement of scientific discussion culture
- Consciousness of the threat to coral reefs
- Practising English
- Dealing with the culture of the visited region

Culture:
- History, culture, politics, and religion
Additionally:

- Physiological aspects of apnoediving
- Measures in case of accidents (also caused by "poisonous" organisms)

Module contents

Biodiversity of littoral biotic communities – topographical field research
GRÜTER, W., 2001: Leben im Meer - Vielfalt und Zusammenhänge. Dr. Friedrich Pfeil Verlag, München.


Literature study:

Web of science: [externhttp://www.bis.uni-oldenburg.de] – Data banks (DBIS) – Biology – TOP data banks, e.g. ASFA, Science Citation Index, Zoological Record
[http://www.biodiversitylibrary.org/bibliography/14107]
[externhttp://scholar.google.de/]
[externhttp://www.vifabio.de]

Open access journals: [externhttp://www.doaj.org/] - [externhttp://www.plosone.org]

Links

Language of instruction
German

Duration (semesters)
1 Semester

Module frequency
jährlich

Module capacity
unlimited

Module level
MM (Mastermodul / Master module)

Modulart
Wahlpflicht / Elective

Vorkenntnisse / Previous knowledge

Examination
Final exam of module
during the lectures

Time of examination
Type of examination
1. Report(s) (30 %)
2. Assignment (70 %) (project report in the style of a scientific publication)

PLEASE NOTE:
Additional conditions regarding attendance and ungraded activities as determined by the persons responsible for the module will apply.

Course type
Exercises
Seminar
Seminar
(Pflichtveranstaltung für

Comment
9.00
3.00
0.00

SWS
SuSe
SuSe
WiSe

Frequency
126 h
42 h
0 h

Workload attendance
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Total time of attendance for the module