



Klaipeda University (KU) in co-operation with the Leibniz-Institute for Baltic Sea Research (IOW),
Warnemünde, Germany

Coastal Management II Practical student course in Germany

** Course specification **

This practical course complements the seminar 'Coastal Management I' by Prof. Dr. G. Schernewski at
Klaipeda University.

- Responsible:** Prof. Dr. Gerald Schernewski
Location: Leibniz-Institute for Baltic Sea Research Warnemünde, Germany
Duration: Annually for 2 weeks in April/May until 2018
No of participants: Max. 14 (preferably Master students)
Course size: 6 credits (60 contact hours)

Suitable for Klaipeda University study programmes: Ecology and Environment studies, Marine Hydrology, Geoinformatics, Human Geography, Recreation and Tourism Management, Ichthyology and Aquaculture, others are welcome too.

Topics/content: Practical application of a Systems Approach Framework (SAF) covering topics like coastal geography, integrated coastal management, spatial planning, sustainable development, coastal ecology, climate change adaptation, coastal erosion and protection, beach management, aquaculture and coastal fisheries, microbial water pollution, bathing water quality and Blue Flag, tourism development, culture and history. The course does not require a special background or knowledge.

Teaching/learning methods: The programme includes excursions and visits, field work, practical exercises, laboratory work, lectures, student presentations and interactive group work. Every day is dedicated to one topic, involves local scientists and experts and usually consists of an introductory lecture, an excursion or field trip and a student activity or laboratory work.

Objectives: Practical knowledge how to solve coastal problems and issues in a systematic, interdisciplinary manner by using a SAF and Ecological-Social-Economic (ESE) assessment schemes; detailed insight into coastal ecology, management and planning as well as culture and nature in Germany; establishment of contacts and social networks to German students, practitioners and scientists; strengthening of practical skills and team-work, as well as organisational and presentation capabilities.

Practical agreements: There will be no course-fee. Travel costs including bus and over-night stays are covered by Klaipeda University. Costs of accommodation in Germany and possible other costs are covered by BaltCoast project and/or IOW. Breakfast will be provided in the hostel. Other food costs are covered by the participants.

Student application and selection process is responsibility of Klaipeda University in co-operation with the Lithuania course co-ordinator (contact person).



Coastal Management II Practical student course in Germany 2017

- Responsible:** Prof. Dr. Gerald Schernewski, phone: +49 15902457146, email: gerald.schernewski@io-warnemuende.de
Greta Gyraite, (Lithuanian co-ordinator & contact person),
greta.gyraite@io-warnemuende.de
- Accommodation in Rostock** Blue Doors Hostel, Doberaner Str. 96, D-18057 Rostock,
Phone: +49 (0)381-46024354, email: info@bluedoorshostel.de
Web: <http://bluedoorshostel.de/>
- Location in Rostock** Leibniz-Institute for Baltic Sea Research Warnemünde (IOW)
Seestraße 15, D-18119 Rostock-Warnemünde (parking place at IOW)
Web: www.io-warnemuende.de/
- Acc./Location: on Hiddensee** Biologische Station Hiddensee, Biologenweg 15, D-18565 Kloster
Phone: +49 (0)38300 50251, contact: Dr. Irmgard Blindow,
email: blindi@uni-greifswald.de
<https://biologie.uni-greifswald.de/struktur/zentrale-einrichtungen/biologische-station-hiddensee/>

During the course each student will give two brief thematic presentations of about 10 minutes (usually in the field, without ppt). The topics are indicated in the programme below and will be distributed on the first meeting in Lithuania. Not all topics have to be covered. Students will search the Internet for suitable literature on his/her topic or (in emergency) contact the responsible person for that topic/day for further information.

The **list of participants** including email addresses should be provided until late 2016 to allow a distribution of rooms and to support practical arrangements.

One or two weeks before the departure, a **pre-meeting in Klaipeda** will be arranged by the Lithuanian co-ordinator to introduce the students as well as to distribute tasks and topics. Further, practical information will be given (food, travel with ferry/ bus, clothing, internet, hostel facilities etc).



Programme – April/May 2017

Sunday, April 23rd departure from Klaipeda by bus/ship 21:00 (Greta)

Monday, April 24th arrival in Kiel, transfer to Rostock (Greta)

Tuesday, April 25th Rostock, Gerald, Simon

Coastal Zone Management basics & local case studies

09:00 – 11:30 Lecture: Introduction about ICZM and System Approach Frameworks (SAF) for coastal assessment (GS)

11:30 – 13:00 Get-together, introduction of staff (all)

13:00 – 16:00 Excursion Warnemünde (GS) – Dunes, beach management, coastal protection measures, history, tourism development, cruise ship terminal
(4 student presentations “Sea level rise at the German Baltic Coast”, “Dune development and succession” “Cruise ship tourism in the Baltic”, “Slavic colonization of northern Germany before the year 10th century”).

Wednesday, April 26th Rostock, Greta, Simon, Gerald

Bathing water quality & geography

09:00 – 09:45 Blue Flag & Environmental Quality Labels (DK)

09:45 – 10:30 Lecture Bathing Water Quality with focus on German Baltic coast (GG)

12:00 – 18:00 Excursion: Ahrenshoop/art and coastal protection, Bodden/Nat.Park, Wieck /Darßer Arche, Barth (water samples) (GS, GG)

(2 student presentations “The problem of ballastwater discharge by ships in the Baltic”, “Air pollution from shipping in the Baltic”)

Thursday, April 27th Rostock, Donald, Gerald

Coastal tourism, culture & history

09:00 – 09:45 Lecture on human pathogens in coastal waters (GG)

09:45 – 10:30 Lecture on coastal tourism (DK)

11:00 - 18:00 Excursion Heiligendamm, Kühlung, Kühlungsborn, Bad Doberan (GS, DK)

(3 student presentations “Ice ages in northern Germany”, “The Cistercian Order and colonization in mediaeval northern Germany and the Baltic”, “The beginnings of bathing tourism at the German Baltic coast”)

Friday, April 28th Rostock, Johanna, Greta, Gerald

Adaptation to climate change & coastal protection

09:00 – 09:30 Discussion of Laboratory work (*E. coli* results) (GG)

09:30 – 10:00 Lecture on coastal realignment and wetland restoration

10:00 Coastal protection and nature restoration case study Markgrafeneheide/Hütelmoor (JS)
(Student presentation “The shipworm *Teredo navalis* and risks for coastal protection”)

13:00 - Lunch break at Karls Erdbeerhof

15:30 - Lecture on adaptation to climate change & coastal protection at IOW (GS)

Saturday, April 29th Rostock, Free day (optional visit of Güstrow)



Sunday, April 30th Rostock Miguel, Mirco, Viktorija

Geography, history, coastal water ecology

09:00 Excursion: Stralsund/Störtebeker/Ozeaneum, Halbinsel Devin/Prosnitzer Schanze, Stahlbrode/GW Bodden, Rügen/Putbus (MH, MI, VS)

(2 student presentations on “Bird migrations at the German Baltic coast” and “Stralsund and the Hanseatic League in the 14th to 17th century”)

17:45 Ship from Schaprode to Hiddensee

Monday, May 1st Hiddensee, Nardine

Coastal fisheries & aquaculture

09:00 – 11:00 Lecture on aquaculture and coastal fisheries + roleplay (NS)

11:30 – 17:00 Field work/Excursion (NS)

(2 student presentations on “Pros and cons of marine aquaculture in the Baltic Sea” and “Fishing methods in Baltic coastal waters”)

Tuesday, May 2nd Hiddensee, Miguel

Ecosystem Services

09:00 – 10:30 Lecture (MI)

11:00 – 17:00 Exercise, group-work & discussion (MI)

(2 student presentations “Water transparency – ecological and socio-economic relevance” and “Cultural Ecosystem Services in coastal waters”)

Wednesday, May 3rd Hiddensee, Mirco, Viktorija

Marine Litter

09:00 – 10:30 Lecture on Marine Litter (MH, VS)

11:00 – 17:00 Fieldwork, Tudor scoring system exercise, student group work & discussion (MH)

(2 student presentations “Litter pollution as a threat for birds”, “Pollution case: Rubber ducks lost from a shipping container in the Pacific in 1992”)

Thursday, May 4th Hiddensee, Irmgard Blindow, Miguel, Mirco

Coastal Ecology

09:00 – 10:00 Background dune & coastal ecology (IB)

10:00 – 14:00 Coastal dunes - excursion with practical exercise (IB)

14:30 Wrap-up & course evaluation (MI, MH)

Friday, May 5th Hiddensee - Kiel, Greta, Johanna, Donalda

9:25 Ship from Hiddensee to Schaprode, bus transfer to Rostock (GG)

13:00 Departure from Rostock to and visit of Kiel (JS, DK)

20:00 Departure of ferry to Klaipeda (DK)



Participants:

	Name Surname	Email address	Position	Topic	Gender
	Greta Gyraite	greta.gyraite@io-warenuende.de	Lith. co-ordinator		F
	Gediminas		Bus driver		M
1	Eglė Vincenta Butkevičiūtė	e.v.butkeviciute@gmail.com	Chem.eng/3rd		F
2	Arlanda Rylskytė	arlanda.rylskyte@gmail.com	env.eng/3rd year		F
3	Raimonda Smirnovaitė	r.smirnovaite@gmail.com	env.eng/3rd year		F
4	Ovidijus Olendra	Ovidijus.olendra@gmail.com	env.eng/3rd year		M
5	Ieva Čaraitė	ievacaraite@gmail.com	eco/4th year		F
6	Justina Blinstrubienė	Justinatrimailovaite95@gmail.com	chem.eng/3rd year		F
7	Greta Paliakaitė	g.paliakaite@gmail.com	bio/2nd year		F
8	Tomas Meškis		JH/1st master		M
9	Žaneta Surplienė		JH/1st master		F
10	Arnoldas Marčenko		JH/1st master		M
11	Jonas Gintauskas		HOK/2nd year		M
12	Vasarė Skarbaliūtė		HOK/2nd year		F
13	Greta Kilmonaitė		HOH/3rd year		F
14	Ieva Žmijauskaitė		HOK/3rd year		F

IOW:

Name	E-mail	Hidden see	Phone IOW (+49 381 5197 - ...)
Gerald Schernewski	gerald.schernewski@io-warnemuende.de		+49 15902457146
Nardine Stybel	stybel@eucc-d.de		
Johanna Schumacher	johanna.schumacher@io-warnemuende.de		+49 1756134971 (IOW: 260)
Mirco Haseler	mirco.haseler@io-warnemuende.de	X	
Donalda Karnauskaite	donalda.karnauskaite@io-warnemuende.de		
Miguel Inacio	miguel.inacio@io-warnemuende.de	X	
Viktorija Sabaliauskaite	viktorija.sabaliauskaite@io-warnemuende.de	X	
Simon Paysen	Simon.paysen@io-warnemuende.de		