

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

## **Integrated Coastal Zone Management II**

### **International practical course**

This practical course complements the seminar 'Integrated Coastal Zone Management' by G. Schernewski at Klaipeda University. It does not require a special background or knowledge.

**Responsible:** Gerald Schernewski & Marija Katarzyte

**Location:** Leibniz-Institute for Baltic Sea Research Warnemünde, Germany

**Duration:** Annually for 2 weeks in April/May until 2018

**No of students:** Max. 14 (preferably Master students) altogether 6 credits

**Suitable for Klaipeda University study programmes:** Ecology and Environment studies, Marine Hydrology, Geoinformatics, Human Geography, Recreation and Tourism Management, Ichtiology and Aquaculture

**Topics/content:** 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.

**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 lab. work.

**Objectives:** Detailed insight into coastal ecology, management and planning as well as culture and nature in Germany, training of interdisciplinary work and 'systems' thinking; 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 arrangements:** There will be no course-fee. Travel costs including bus are covered by Klaipeda University. Costs of accommodation and possible external costs are covered by BaltCoast project or IOW. Apart from breakfast, food costs are covered by the students.

In case the existing co-operation of Inga Dailidienė with the **Biological Station Zingst** of Rostock University will be continued annually or bi-annually, both courses will be linked into one unit.

## **Integrated Coastal Zone Management II International practical course 2015**

- Responsible:** Gerald Schernewski & Marija Katarzyte  
with R. Friedland, M. Inacio, H. Janssen, D. Karnauskaite, J. Mezine, J. Schumacher, N. Stybel, C. Weder, R. Boslough
- Arrival:** Sat. 11. April (by bus)
- Departure:** Fri. 24. April (by bus)
- Accommodation:** Jellyfish Hostel, Beginenberg 25, D-18055 Rostock,  
Phone: +49 (0) 381 - 444 38 58; email: [info@jellyfish-hostel.com](mailto:info@jellyfish-hostel.com),  
Web: [www.jellyfish-hostel.com/](http://www.jellyfish-hostel.com/)
- Location:** Leibniz-Institute for Baltic Sea Research Warnemünde, Germany  
Seestraße 15, D-18119 Rostock-Warnemünde  
Phone: +49 381 5197207; email: [schernewski@eucc-d.de](mailto:schernewski@eucc-d.de)  
Web: [www.io-warnemuende.de/](http://www.io-warnemuende.de/)
- Participants:** Max. 14 (preferably Master students) altogether 6 credits  
Bus capacity 17 places

During the course each student will give a brief thematic presentation of about 10 minutes (usually in the field, without ppt). The topics are indicated in the program below and will be distributed on the first meeting in Lithuania or on the ferry. Students will search the Internet for suitable literature on his/her topic or in emergency contact the responsible person for that topic/day.

During the course each student will write a blog for the website of the BaltCoast project on interesting coastal management issues, coastal activities, events, or the conference kick-off meeting or related relevant experiences. Pictures should be taken for this task. Focus should be on the first 4 days. The course does not include an examination. The students should bring their Laptops with them to Germany.

### **Programme**

#### **Saturday, 11<sup>th</sup>**

Arrival in Rostock

#### **Sunday, 12<sup>th</sup>**

- 9:00 – 12:00 Time for preparation of student presentations (at Jellyfish Hostel)
- 14:00 Guided tour through Rostock (meeting at Jellyfish Hostel)
- 16:30 Introduction (IOW, Warnemünde, room 043, meeting in front of IOW)
- 18:00 Get together at wine bar DeJaBo, Mühlenstraße, Warnemünde



**Monday, 13<sup>th</sup>**(main hall, Saal)

9:00 – 17:00 BaltCoast kick-off meeting with presentations

**Tuesday, 14<sup>th</sup>** (main hall, Saal)

9:00 – 17:00 BaltCoast kick-off meeting with presentations

17:00 Applied social event

18:30 Some food, drinks and music at IOW

**Wednesday, 15<sup>th</sup>** (Nardine, Donalda, Miguel, Kasimierz, Rebecca)

8:00 – 18:00 Excursion to the Szczecin (Oder-) Lagoon

**Thursday, 16<sup>th</sup>** (Holger & Miguel, room 043)

**Coastal and marine spatial planning**

9:00 Lecture on coastal and marine spatial planning (IOW)

10:00 Lecture on Ecosystem Services (IOW, Miguel)

11:00 Exercise

(2\*10 min. student presentations on “1. History of Warnemünde” and, “2. Maritime employment in the Baltic”)

**Friday, 17<sup>th</sup>** (Nardine & Miguel, room 043)

**Coastal fisheries & aquaculture**

9:00 Lecture on Aquaculture and coastal fisheries (IOW)

10:00 Excursion

(3\*10 min. student presentations on “3. Coastal aquaculture at the German Baltic Coast”, “4. Round goby – blessing or curse?” and “5. Fishing methods in Baltic coastal waters”)

**Saturday, 18<sup>th</sup>** - Free day

**Sunday, 19<sup>th</sup>** (Marija & Donalda, room 043)

**Bathing Water Quality, Blue Flag & Environmental Quality Lables**

9:00 Lecture on hygienic water quality (IOW, Marija)

10:00 Blue Flag & Quality Lables (IOW, Donalda)

11:00 Water sampling, CTD and transparency measurements around the Warnow estuary (by bus)

14:00 Laboratory work

(2\* 10 min. student presentations on “6. Vibrions in bathing waters” and “7. Jellifish in bathing waters”)

**Monday, 20<sup>th</sup>** (Marija, Gerald, Claudia, Rebecca, Arunas; room 043)

**Coastal tourism, marine pollution & marine litter**

9:00 Lecture on Marine Litter (IOW, Gerald)

10:00 Field work on marine micro litter in Warnemünde (Claudia, Rebecca)

15:00 Laboratory work (Marija)

(3\* 10 min. student presentations on “8. Tourism at the German Baltic coast”, “9. Coastal dune development”, “10. Pollution by ships in the Baltic”)

**Tuesday, 21<sup>th</sup>** (Rene & Jovita, room 043)

**Water quality and transport modelling**

9:00 – 17:00 Exercise (IOW)

**Wednesday, 22<sup>th</sup>** (Gerald & Johanna, room 043)

**Landscape, culture & settlement history**

09:00 Lecture on landscape, culture & settlement history (Gerald)

11:00 Medieval slawic castle-town in Groß-Raden (by bus, Johanna, Gerald)

13:00 City of Schwerin with its romantic castle (by bus, Johanna, Gerald)

16:00 Hanseatic city of Wismar (by bus)

(2\* 10 min. student presentations on “11. Schwerin after 1945”, “13. Wismar & the Hanseatic League”)

**Thursday, 23<sup>th</sup>** (Gerald & Johanna, room 227)

**Adaptation to climate change & coastal protection**

09:00 Coastal protection and nature restoration case study Markgrafenheide/Hütelmoor (walk)

11:00 Coastal excursion (bus with stops)

13:00 Lunch break at Karls Erdbeerhof

15:00 Lecture on adaptation to climate change & coastal protection at IOW

(2\* 10 min. student presentations on “14. Sea level rise at the German Baltic Coast” and “15. The shipworm *Teredo navalis* and risks for coastal protection”)

**Friday, 24<sup>th</sup>**

09:00 Departure to Klaipeda