

# Summer School on Ecology of Changing Sandy Coasts

Wadden Sea Station Sylt

16 – 24 September 2009

## Wednesday, 16 September

Arrival and registration

18:00 Icebreaker

## Thursday, 17 September

9:15 – 11:30 Excursion with the research catamaran "MYA", dredging and fishing

12:30 – 14:00 Lunch break

### *Macroalgae under global change, session I*

14:00 – 15:00 Inka Bartsch and Dieter Hanelt: Introduction

15:00 – 15:30 Coffee break

15:30 – 18:00 Practical: PAM measurements, algal growth experiment

## Friday, 18 September

### *Changing fish fauna*

9:00 – 10:00 Florian Kellnreitner and Moritz Pockberger: The fish fauna of the Sylt-Rømø bight, with special emphasis on trophic relationships

10:00 – 10:30 Coffee break

10:30 – 12:30 Practical: How to analyse food resources and trophic levels

12:30 – 14:00 Lunch break

14:00 – 15:00 Angela Köhler: Chemically induced liver injury and cancer development in North Sea flatfish

15:00 -15:30 Coffee break

15:30 – 18:00 Practical: Preparation of flatfish livers

18:00 Control of algal growth experiment

## Saturday, 19 September

### *Tropical coastal habitats*

9:00 – 10:00 Sigrid Schiel, Harald Asmus: Has the paradise been lost? Coral reefs, seagrass beds and plankton of Indonesian coastal waters

- 10:00 – 10:30 Coffee break
- 10:30 – 11:30 Dominik Kneer: Ecology of seagrass meadows on small coral islands in Indonesia
- 11:30 – 12:00 Discussion of climate driven problems in the tropics
- 12:30 – 14:00 Lunch break
- 14:00 – 15:00 Harald Asmus: Biodiversity and ecosystem functioning: Food web studies via ecological network analysis
- 15:00 -15:30 Coffee break
- 15:30 Control of algal growth experiment
- Free afternoon

## **Sunday, 20 September**

### ***Wadden Sea habitats***

- 09:00 – 12:00 Excursion to tidal flats, macrofauna and macroflora
- 12:30 – 14:00 Lunch break
- 14:00 – 15:00 Werner Armonies: Meiofauna theory and praxis
- 15:00 -15:30 Coffee break
- 15:30 – 17:00 Practical on meiofauna
- 18:00 Visit of the Erlebniszentrum Naturgewalten
- 20:00 Public lecture in the Erlebniszentrum: Michael Klages: Tiefseeforschung in der Arktis - über das Leben und Überleben am Limit

## **Monday, 21 September**

### ***Macroalgae session II***

- 09.00 – 10:00 Lars Gutow: Species interactions in coastal seaweed ecosystems - trophic and biogeographic implications
- 10:00 – 10:30 Coffee break
- 10:30 – 12:30 Last growth measurements and set up of grazing experiment
- 12:30 – 14:00 Lunch break

### ***Changing marine environment***

- 14:00 – 15:00 Rainer Reuter: Global Change and the oceans
- 15:00 - 15:30 Coffee break
- 15:30 – 16:30 Rainer Reuter: Temperature trends in the North Sea
- 16:30 – 17:00 Discussion

## **Tuesday, 22 September**

### ***Changing coastal environment***

- 09:00 – 10:00 Karsten Reise: The Wadden Sea: How a World Heritage Site may survive Global Change
- 10:00 – 10:30 Coffee break
- 10:30 – 11:30 Christian Hass: Climate evolution since the last glacial maximum: devil in the detail
- 11:30 – 12:30 Justus van Beusekom: Wadden Sea eutrophication: Long term trends and spatial gradients
- 12:30 – 14:00 Lunch break

### ***Marine protection***

- 14:00 – 15:30 Ulrich Claussen: Protection of European Seas - fit for the purpose?
- 15:30 – 16:00 Coffee break

### ***Macroalgae session III***

- 16:00 – 18:30 Final measurements of grazing experiment

## **Wednesday, 23 September**

### ***Macroalgae session III continued***

- 09:00 All day: Final measurements and analysis of algal growth experiment and grazing experiment
- 10:00 – 10:30 Coffee break
- 12:30 – 14:00 Lunch break
- 15:30 – 16:00 Coffee break
- 16:00 – 18:00 Presentation of results
- 19:00 Summer School Dinner

## **Thursday, 24 September**

Departure