

**12th German-Polish Seminar on Coastal Research  
including  
6<sup>th</sup> International COPAF Workshop  
Greifswald, 11/12th October 2012**

**Thursday, October 11**

**9:00 Welcome and Introduction**

Prof. Dr. J. Sündermann, University of Hamburg, Germany  
Prof. Dr. M. Meschede, Greifswald University, Germany  
Prof. Dr. S. Massel, IO PAN Sopot, Poland

*Dynamics of the Baltic Sea System*

Chairman: Prof. Dr. H. von Storch

**9:30 Adaptive vertical coordinates in ocean models: one way to effectively reproduce the Baltic Sea inflow dynamics**

Prof. Dr. H. Burchard, IO Warnemünde, Germany

**10:00 Development of an ecosystem model of the Baltic Sea**

Dr. L. Dzierzbicka-Glowacka, IO PAN Sopot, Poland

**10:30 coffee break**

**11:00 Configurational mechanics of stable stratification applied to the Baltic Sea**

Dr. E. Kleine, BSH Hamburg, Germany

**11:30 How and where the winter NAO affects Baltic Sea hydro- and morphodynamics?**

Dr. G. Różyński, IBW PAN, Gdańsk, Poland

**12:00 Coastdat: Baltic Sea wave conditions in a changing climate**

Dr. N. Groll, Helmholtz-Zentrum Geesthacht, Germany

**12:30 Lunch**

Chairman: Prof. Dr. S. Massel

**14:00 Consequences of climate change for the morphological development and protection of sandy coasts**

Prof. Dr. P. Fröhle, TU Hamburg-Harburg, Germany

**14:30 Long-term evolution of a multibar shore-profile: Shoreline position, volumetric resources and Dean's function**

G. Cerkowniak, IBW PAN, Gdańsk, Poland

**15:00 Identification of an environmentally safe fairway in the South-Western Baltic Sea and Kattegat**

Xi Lu, Helmholtz-Zentrum Geesthacht, Germany

**Meeting Place:** Greifswald University, Institute for Geography and Geology, Friedrich-Ludwig-Jahn-Straße 17A

**15:30 coffee break**

***Coastline changes of the Southern Baltic Sea***

Chairman: Prof. Dr. J. Harff

**16:00 Morphodynamics research at the southern Baltic coast by the Remote Sensing and Marine Cartography Unit, University of Szczecin**

Prof. Dr. K. Furmanczyk, University of Szczecin, Poland

**16.20 tbd**

University of Greifswald

**16:40 Introduction to CoPaf –State of the art**

Prof. Dr. J. Harff, University of Szczecin, Poland

**17:00 Present-day crustal deformation and sea-level changes in the Baltic Sea region**

A. Groh, Technical University Dresden, Germany

**17:20 Protection of the Baltic Sea coast in the Province of Western Pomerania**

Dr. J. Dudzinska-Nowak, University of Szczecin, Poland

**17:40 Modeling of long-term coastal morphodynamics of the Pomeranian Bight, southern Baltic Sea**

J. Deng, University of Szczecin, Poland

**18:00 Summary and Discussion**

Prof. Dr. H. von Storch, Helmholtz-Zentrum Geesthacht, Germany

Prof. Dr. J. Harff, University of Szczecin, Poland

**~19:00 joint dinner/ get together**

with participants of the combined 6<sup>th</sup> International CoPaF Workshop at Geologenkeller/ University of Greifswald

**Friday, October 12**

**8:45 Welcome and Introduction**

Prof. Dr. J. Harff, University of Szczecin, Poland

**8:55 Aeolian sand transport rate on the beach and its influence on the development of fore-dunes along the Leba Barriers, southern Baltic coast, Poland.**

Dr. J. Rotnicka, University of Poznan, Poland

**9:15 Present day and Holocene development of Polish coastal dunes**

Prof. Dr. K. Borowka, Dr. K. Osadczuk, University of Szczecin, Poland

**Meeting Place:** Greifswald University, Institute for Geography and Geology, Friedrich-Ludwig-Jahn-Straße 17A

- 9:35 Dune morphogenetic modeling using CA concepts**  
Dr. W. Zhang, University of Greifswald
- 9:55 CLISCODE –Climate signals in coastal deposits**  
Universität Hamburg (Ludwig)/ Helmholtz-Zentrum Geesthacht (Bierstedt),  
Germany
- 10:10 Discussion of the Research Plan**  
Prof. Dr. J. Harff, University of Szczecin, Poland
- 10:30 coffee break**
- Current and future programs and initiatives*  
Chairman: Prof. Dr. J. Sündermann
- 10:50 Second BALTEX Assessment of Climate Change –State of the art**  
Prof. Dr. Hans von Storch, Helmholtz Zentrum Geesthacht, Germany
- 11:10 BONUS: Present state**  
Prof. Dr. S. Massel, IO PAN Sopot, Poland
- 11:30 Discussion on joint future Baltic Research**  
(including short presentations of 3min from representatives of the participating  
main institutions)  
Prof. Dr. H. von Storch, Helmholtz Zentrum Geesthacht, Germany  
Prof. Dr. A. Witkowski, University of Szczecin, Poland
- 13:00 Lunch**
- Departure of Non-Local Guests**
- 14:00 Joint CLISCODE-COPAF Fieldtrip to Świnoujście and Łeba Dunes**  
Betzler / Lindhorst / Ludwig (Uni HH), Bierstedt (HZG), Harff/ Borowka/ Osadczuk  
/Osadczuk/ Strzelecka. (University of Szczecin)