15th German-Polish Seminar

The coasts of the North Sea and the Baltic Sea under climate change – synthesis of German and Polish strategies for development and prediction

Hamburg, 11 – 12 October, 2016

International Maritime Museum Hamburg

Final Agenda

Tuesday, October 11, 2016

9:00 Welcome and introduction

J. Sündermann/G. Różyński/H. v. Storch

Session 1: Influence of climate change from the Northwest European Shelf

Chair: Thomas Pohlmann

09:30 - 09:50	M. Meier (Institute of Baltic Research)
	Regional climate system modelling for the North Sea and Baltic Sea regions –
	a review
09:50 – 10:10	M. Mathis (Max-Planck-Institute of Meteorology)
	Which complexity of regional climate system models is essential for
	downscaling anthropogenic climate change in the Northwest European Shelf?
10:10 – 10:30	Coffee break
10:30 – 10:50	M. Reckermann (Baltic Earth Secretariat)
	Baltic Earth
10:50 – 11:10	E. Zorita (Helmholtz-Zentrum Geesthacht)
	Trends and low-frequency Baltic sea level variability in the 20th century
11:10 – 11:30	A. Lehmann (Geomar Helmholtz-Zentrum f. Ozeanforschung)
	Pathways of deep cyclones associated with large volume changes (LVCs) and
	major Baltic inflows (MBIs)
11:30 – 12:00	Discussion
12:00 – 13:00	Lunch break

Session 2: Local manifestations of climate change in the North Sea and in the Baltic Sea

Chair: Ralf Weisse

13:00 – 13:20	P. Fröhle (Technische Universität Hamburg)
	Future Options of Flood Protection in the Elbe Estuary
13:20 – 13:40	G. Rózyński (Institute of Hydroengineering)
	Theoretical implications of empirical beach safety criterion based on long-
	term observations
13:40 – 14:00	D. Rak (Institute of Oceanology)
	Long-term monitoring of the inflows in Bornholm Deep, Słupsk Furrow and
	Gdańsk Deep
14:00 – 14:20	J. Dudzińska-Nowak (University of Szczecin)
	Temporal and spatial distribution of the changes of the eastern Pomeranian
	Bay coasts in 2008-2012 based on airborne laser scanning
14:20 – 14:40	Coffee break
14:40 – 15:00	S. Musielak / K. Furmańczyk / N. Bugajny (University of Szczecin)
	Temporal and spatial scales of the features and processes forming the Polish
	Baltic Sea coast
15:00 – 15:20	B. Szymczycha (Institute of Oceanology)
	Impact of groundwater discharge along the coast of Poland on the Baltic Sea
	ecosystem
15:20 – 15:40	M. Robakiewicz (Institute of Hydroengineering)
	Impact of predicted climate change on the Vistula Lagoon hydrodynamics
15:40 – 16:00	J. Jakacki and A. Przyborska (Institute of Oceanology)
	The impact of civil engineering structures on the coastline as exemplified in
	the case of the Sopot Pier
16:00 – 16:30	Discussion
16:30 – 18:00	Possibility to visit the Maritime Museum
18:30	Dinner at "Wasserschloss Speicherstadt"

Wednesday, October 12, 2016

Session 3: Societal response

Chair: Gregorz Rózyński

09:00 - 09:20	S. Bierstedt (Helmholtz-Zentrum Geesthacht)
	A wind proxy based on migrating coastal dunes: statistical validation
	and calibration
09:20 - 09:40	J. Oelerich (LKN Husum)
	Coastal and Flood Protection in Schleswig-Holstein in Times of Climate
	Change
09:40 - 10:00	M. Darecki (Institute of Oceanology)
	SatBałtyk Monitoring System: results and perspectives
10:00 - 10:20	Coffee break
10:20 - 10:40	G. Rózyński on behalf of A. Cieślak (Maritime Authority, Gdynia)
	Coastal protection strategy in Poland
10:40 - 11:00	M. Bielecka (Institute of Hydroengineering)
	Socio-economic scenarios of water quality change in the Vistula Lagoon
11:00 - 11:20	W. Jiang (Ocean University Quingdao)
	The intermediary stage of the Adaptation to Climate Change in China, a case
	study in Qingdao
11:20 – 12:00	Discussion
12:00 – 13:00	Lunch break
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Session 4:

Chair: Hans v. Storch

13:00 – 14:30 Final discussi

14:30 Closing