International Conference on
Climate Change
The environmental and socio-economic response
in the southern Baltic region

Szczecin, Poland, 25 - 28 May 2009

Conference Programme
Organisers

University of Szczecin

GKSS Research Centre
Geesthacht GmbH

State Authority for Environment,
Nature Protection and Geology
Mecklenburg Vorpommern (LUNG)

Helmholtz-Centre Potsdam
German Research Centre for Geosciences
GFZ

BALTEX – The Baltic Sea Experiment
Sponsors

The City of Szczecin

The Office of the Marshal
of the Province of Western Pomerania

Committee for Quaternary Research (CQR)
of the Polish Academy of Science

PZU Group
Climate Change
The environmental and socio-economic response in the southern Baltic region

Conference Programme

SUNDAY, 24 May 2009

16:00 - 20:00 Registration at the Conference Venue

19:00 Ice Breaker at the Conference Venue (Drinks/Snacks/Music)

MONDAY, 25 May 2009

09:00 - 10:15 Registration at the Conference Venue

10:30 Opening Ceremony

Chair: Andrzej Witkowski

Inaugural addresses

Stanisław Gawłowski, Secretary of State, Ministry of the Environment, Poland
Władysław Husejko, Marshal of the Province of Western Pomerania, Poland
Piotr Krzystek, Major of the City of Szczecin
Waldemar Tarczyński, Rector of the University of Szczecin

Keynote Lectures

11:30 Winter air temperatures in the Baltic Sea region during the past millenium
Andres Tarand
Andres Tarand is member of the European Parliament and was Prime Minister of Estonia. He has a university degree as climate researcher.

12:00 The BACC Strategy (BALTEX Assessment of Climate Change for the Baltic Sea Basin)
Hans von Storch, Hans-Jörg Isemer, Marcus Reckermann and the BACC Author Team
Hans von Storch is Director at the Institute for Coastal Research at GKSS Research Centre, Germany, and Chair of the BACC Steering Committee.

12:30 Lunch
MONDAY, 25 May 2009

Session A: Marine and terrestrial proxies for reconstructions of paleo-climate

Chair: Achim Brauer

14:00 Invited Lecture
Global warming in the perspective of 20,000 years
Svante Björck

14:30 BONUS programme: INFLOW project – Providing information on forcing mechanisms of environmental changes of the Baltic Sea during the past 6000 years and future scenarios
Aarno Kotilainen, Laura Arppe, Eystein Jansen, Juha Karhu, Mia Kotilainen, Antoon Kuijpers, Markus Meier, Matthias Moros, Thomas Neumann, Daria Ryabchuk, Ian Snowball, Mikhael Spiridonov and Andrzej Witkowski

14:50 Sedimentation of a marine deposit in the "Szczecin Bay" during the Littorina transgression
Ryszard Krzysztof Borówka, Andrzej Witkowski, Małgorzata Latałowa and Artur Skowronek

15:10 Multi-proxy record of climate and Holocene palaeohydrological events in SE Wolin Island (Southern Baltic Sea)
Anna Pędziszewska, Kamila Mianowicz, Ryszard Krzysztof Borówka and Małgorzata Latałowa

15:30 Break

Chair: Aarno Kotilainen

16:00 Environmental change during the Holocene in the Baltic Sea based on sediment core analysis of the eastern Gotland Basin
Michal Tomczak, Jan Harff, Andrzej Witkowski, Rudolf Endler and Matthias Moros

16:20 Debatable questions of Holocene geological history of the eastern Gulf of Finland
Darya Ryabchuk, Vladimir Zhamoida, Mikhail Spiridonov, Elena Nesterova and Andrey Grigoriev

16:40 Lake Hańcza (northeastern Poland) – A new multi-proxy record of late glacial and early Holocene climate and environmental change from the eastern Baltic
Stefan Lauterbach, Achim Brauer, Birgit Plessen, Peter Dulski, Katarzyna Zamelczyk, Krystyna Milecka, Tadeusz Namiotko, Matthias Hüls, Nils Andersen, Ulrich von Grafenstein, Dan L. Danielopol and DecLakes participants
MONDAY, 25 May 2009

17:00 Climatic changes reflected in high-resolution pollen diagram from Lake Hańcza, NE Poland
Krystyna Milecka, Milena Obremska and Kazimierz Tobolski

17:20 Non-stationarities in the circulation-climate-relationship over the Baltic Sea and its effects on reconstructions of climate indices
Frederik Schenk, Daniel Hansson, Sebastian Wagner and Eduardo Zorita

17:40 Closing for the Afternoon

19:30 Evening Lecture

Nuclear astrophysics versus global warming
Konrad Czerski, Institute of Physics, University of Szczecin

20:30 Closing for the Day

TUESDAY, 26 May 2009

Session D: Prehistoric communities and climate change

Chair: Marian Rebkowski

9:00 Invited Lecture
Hunting-gathering communities on the Kashubian Shoreland
Marcin Wąs

9:30 Hunters and fisher in a changing world - Preliminary results of the archaeological fieldwork 2003-2008 of the SINCOS research unit in Wismar Bay, Germany
Harald Lübke and Friedrich Lüth

9:50 Palynological data on the Late Mesolithic and the transition to the Neolithic economy in Wolin Island, the Southern Baltic coast
Małgorzata Latałowa and Anna Pędziszewska

10:10 Climate change influence on the human settlement in the region of Dziwna River (NW Poland)
Marek Dworaczyk, Andrzej Piotrowski, Justyna Relisko-Rybak and Jan Seidler

10:30 Break
TUESDAY, 26 May 2009

11:00    Poster Discussion
See the poster programme on page 8

13:00    Lunch

Session B: Modelling of past climate change and future projections

Chair: Jan Harff

14:00    Invited Lecture
Contribution of regional climate drivers to future winter Baltic Sea level changes: An application of statistical downscaling to the output of global climate model simulations
Birgit Hünicke

14:30    Detailed assessment of climate variability of the Baltic Sea for the period 1950/70-2008
Andreas Lehmann, Klaus Getzlaff, Jan Harluss and Karl Bumke

14:50    Contemporary and future changes of snow accumulation of the south-east Baltic region
Lev Kitaev and Alexander Kislov

15:10    Variability of droughts in Poland, 1951-2006
Joanna Wibig and Gintautas Stankunavicius

15:30    Break

Chair: Eduardo Zorita

16:00    Seasonal structural front in the Baltic Sea under changing climate conditions: Field data analysis and numerical modelling results
Natalia Demchenko and Elena Esiukova

16:20    The weather generator: A tool for modelling agricultural and socio-economic responses to future climate
Leszek Kuchar

16:40    Past and future changes in Latvian river runoff: The cases of Bērze and Salaca river basins
Elga Apsīte, Anda Bakute and Līga Kurpniece
**TUESDAY, 26 May 2009**

17:00  *Mechanisms of formation of the Baltic Sea cold intermediate layer: What to expect due to climate warming*
Irina Chubarenko

17:20  *The Fahrenheit scale and three hundred years of thermometry over the Baltic Sea*
Roman Marks

17:40  *Closing for the Afternoon*

20:00  *Conference Dinner* (Buffet at Szczecin Castle)
Ceremony of awarding the University of Szczecin Medal
"SIS QUI ES - PRO PUBLICO BONO" to Professor Jürgen Sündermann

**WEDNESDAY, 27 May 2009**

**Session C:**  Climate and anthroposphere interaction

*Chair: Barbara Batóg*

9:00  *Invited Lecture*

**Climate Change: New Challenges for State Geological Surveys of Germany**
Ralf-Otto Niedermeyer

9:30  *Impact of climate change on the long-term variability of the ecological state of the Curonian Lagoon in the Baltic Sea*
Sergey Aleksandrov

9:50  *Synchronous regime shifts in Baltic Sea ecosystems: Similarities and dissimilarities in response to climate, nutrients and fisheries*
Thorsten Blenckner, Rabea Diekmann, Christian Möllmann, Anna Gårdmark, Michele Casini, Lena Bergström, Juha Flinkman, Bärbel Müller-Karulis, Martin Lindegren, Georges Kornilovs and Maris Plikss

10:10  *Quantitative inventory of exhaust gas emission from coastal fishing vessels in Poland*
Tadeusz Borkowski and Jarosław Myšków

10:30  Break
WEDNESDAY, 27 May 2009

Chair: Maciej Kowalewski

11:00 On the influence of anthropogenic factors and regional climatic changes on the dynamics of the bottom sediments of the Vistula Lagoon
Vladimir Chechkho and Viktoria Kurchenko

11:20 Global environmental change and urban climate in central European cities
Krzysztof Fortuniak

11:40 Extreme weather event in the Baltic region in July 2006: Its causes and consequences
Krzysztof Jarzyna

12:00 Anthropogenic changes in the region of Gdańsk Żuławy (Vistula Delta) resulting from climatic effects
Wojciech Majewski

12:20 Climate change and the future of water sports around the Baltic Sea region
Ralf Scheibe

12:40 Lunch

Session E: Climate variability and change impacts on Baltic Sea coasts

Chair: Peter Fröhle

13:40 Invited Lecture
Sea level and coastal changes of the southern Baltic Sea during the last 9,000 calendar years and their controlling factors
Karol Rotnicki

14:10 Using SEDSIM to predict the response of coastal sediments to climate change in Australia
Cedric M. Griffiths, Tristan Salles, Fangjun Li and Chris P. Dyt

14:30 Modelling historical coastline change with SEDSIM: The development of the Darss-Zingst peninsula since 1696 AD
Michael Meyer, Jan Harff, Lars Tiepolt and Chris P. Dyt

14:50 From the field to the map: The landslide inventory and geohazard assessment of the steep cliff coast in NE Germany
Karsten Obst and Karsten Schütze

15:10 Break
WEDNESDAY, 27 May 2009

Chair: Zygmunt Meyer

15:40 Measured sea level rise at the Baltic Sea coast of Mecklenburg-Vorpommern and implications for the design of coastal structures
Steffi Dimke and Peter Fröhle

16:00 Coastal abrasion of the coasts of the Świna Gate Sandbar caused by the heavy storm surge in November 2004
Tomasz A. Łabuz and Halina Kowalewska-Kalkowska

16:20 Sand barriers: Disappearing resources; the Hel peninsula case
Stanislaw Rudowski, Benedykt Hac, Łukasz Gajewski, Leszek Łęczyński, Jarosław Nowak and Kazimierz Szefler

16:40 Long-term changes in the rate of coastal erosion in the Kaliningrad Oblast (south-east Baltic)
Boris Chubarenko, Eugenii Burnashov, Vadim Boldyrev, Valentina Bobykina and Konstantin Karmanov

17:00 Climate change and anthropogenic impact on bottom sediment environment in recent 30 years, Pearl River Estuary
Cheng Tang, Wenhuan Zhan, Zhen Xia and Bjoern Heise

17:20 Closing Ceremony

20:00 Concert

THURSDAY, 28 May 2009

All Day Excursions (alternatively)

• The inner and outer coasts of Wolin Island
• The coasts of Rügen Island
• Expedition with R/V NAVIGATOR XXI to the Pomeranian Bay (by invitation only)

FRIDAY, 29 May 2009

Departure of participants
Poster Discussion

Tuesday, 26 May 2009, 11:00 – 13:00

Session A:  Marine and terrestrial proxies for reconstructions of paleo-climate

Poster A10
**Dating of paleo-shoreline terraces of Lake Lisan high stands**
Shahrazad Abu Ghazleh and Stephan Kempe

Poster A11
**Geomorphic evolution of small river-lake-systems in northeast Germany during the late Quaternary**
Knut Kaiser, Henrik Rothery, Sebastian Lorenz, Peter Gärtner and Ralf Papenroth

Poster A12
**Sediments of the Gulf of Gdańsk as indicator of short term climatic oscillation**
Urszula S. Paczek and Szymon Uścinowicz

Poster A13
**Palaeobiogeochemical data in the models of global and regional climate change**
Anna Y. Romanchuk and Evgeny V. Krasnov

Poster A14
**Paleo-environmental development of the Gdańsk Basin in the Late Pleistocene – Holocene according to the data of investigations of the core-section #303700-7 sampled in R/V Poseidon cruise**
Mikhail Spiridonov, Vladimir Zhamoida, Andrey Grigoriev, Alla Shaparova, Vadim Sivkov and Darya Ryabchuk

Poster A15
**Holocene climate variability on a millenial time scale based on palaeolimnological evidence (Great Poland Lowland)**
Adam Wojciechowski

Session B:  Modelling of past climate change and future projections

Poster B10
**Probable response of the Baltic Sea cold intermediate layer to climate warming: Field data analysis and numerical modelling**
Irina Chubarenko, Olga Kozlova and Lilia Sachenko

Poster B11
**Horizontal water exchange within the Baltic Sea: Results of numerical modelling**
Elena Esiukova and Irina Chubarenko
Poster B12
First-order estimation of climate change influence on the nutrient load from a small river system using a nutrient dynamics model
Julia Gorbunova and Boris Chubarenko

Poster B13
Variability of cool, hot and very hot days in the zone of the Polish coast of the Baltic Sea
Czesław Koźmiński and Bożena Michalska

Poster B14
Precipitation changes on the Polish coast of the Baltic Sea (1954-2003) caused by the intensity of westerlies over Europe
Małgorzata Świątek

Poster B15
Changes of elements of water balance and their forecast against global climate fluctuation
A. A. Volchek and N. N. Sheshko

Poster B16
SST retrieval from MSG/SEVIRI data in the Baltic Sea area
Monika Woźniak

Session C: Climate and anthroposphere interaction

Poster C10
Development strategies for municipalities of the Kaliningrad Oblast (south-east Baltic) with relation to climate change
Anastasea Andriashkina, Dmitrii Domnin and Boris Chubarenko

Poster C11
Change of climate in the Baltic region for the last thousand years
Galina M. Barinova and Evgeny V. Krasnov

Poster C12
Analysis of interactions between the level of economic development, industrial production and environmental pollution in the Baltic Sea region
Jacek Batóg and Barbara Batóg

Poster C13
Substantiation for climate change at the Lithuanian coast in the south-eastern Baltic
Inga Dailidienė and Lina Davulienė

Poster C14
The application of the exploratory factor analysis in the study of heat power costs determinants in housing resources
Iwona Foryś
**Poster Discussion (continued)**

**Poster C15**  
*Course of phenological phases of potato and its determination by multiannual variability of air temperature in Poland*  
Eliza Kalbarczyk and Robert Kalbarczyk

**Poster C16**  
*Role of air temperature in shaping variability of phenological dates of onion and cucumber in Poland*  
Robert Kalbarczyk

**Poster C17**  
*Coastal communities and climate change: Discussing environmental risk and perspectives of tourism development in sociological terms*  
Maciej Kowalewski and Sebastian Kołodziejczak

**Poster C18**  
*The use of geo-statistical methods in the analysis of changes in the erosive and accumulative systems of the southern Baltic Sea*  
Wojciech Kuźniński and Dariusz Kłoskowski

**Poster C19**  
*Sea erosion - Present state and simulation of coastal changes in the southern Baltic Sea*  
Christian Lis and Dariusz Kłoskowski

**Poster C20**  
*Theoretical foundations of common programme of the insurance sector*  
Mieczysław Łozowski, Zdzisław Obstawski and Magdalena Mojsiewicz

**Poster C21**  
*Insurability of agricultural production in the region of Poland*  
Mieczysław Łozowski, Zdzisław Obstawski and Magdalena Mojsiewicz

**Poster C22**  
*Indicators for Integrated Coastal Zone Management in the south-eastern Baltic*  
Rosita Mileriene, Saulius Gulbinskas, Blazauskas Nerijus and Inga Dailidiene

**Poster C23**  
*Is the European blocking the precursor for the droughts in the southern Baltic region?*  
Gintautas Stankunavicius and Joanna Wibig

**Session D:** Prehistoric communities and climate change

**Poster D05**  
*Climate change influence on the human settlement in the region of the Świna River Gate (NW Poland)*  
Andrzej Piotrowski, Marek Dworaczyk, Justyna Relisko-Rybak and Jan Seidler
Poster D06
Climate changes and the prehistoric exploitation of siliceous raw materials: Pomeranian and European perspectives
Mikołaj Urbanowski

Session E: Climate variability and change impacts on Baltic Sea coasts

Poster E10
Development of conceptions of alongshore sediment drifts structure and coast defence strategy under rising sea level
Alexander Babakov

Poster E11
Present sea coast condition of the south-eastern Baltic Sea according to remote sensing and monitoring data
Valentina Bobykina, Vadim Boldyrev and Konstantin Karmanov

Poster E12
Development over time of the Pleistocene outcrops at the steep coast of the Stoltera west of the harbour Rostock-Warnemünde
Johannes Brumme, Karsten Schütze and Heiko Hüneke

Poster E13
Is the 8200 cal y BP climatic event recorded in the southern Baltic Sea lagoon deposits? Microfossil-based (diatoms, cladocera) study on the Rega river valley
Bernard Cedro, Andrzej Witkowski, Agnieszka Kierzek, Edyta Zawisza and Anna Pędziszewska

Poster E14
A laser scanning application for volumetric changes of the beach and dune analyses
Joanna Dudzińska-Nowak and Kazimierz Furmańczyk

Poster E15
Application of MODIS satellite data for the analysis of coastal water dynamics and suspended matter distribution in the south-east Baltic Sea
Evgenia Gurova

Poster E16
Sinking coasts - Geosphere, ecosphere and anthroposphere of the Holocene southern Baltic Sea (SINCOS)
Jan Harff, Reinhard Dietrich, Friedrich Lüth and Eduardo Zorita

Poster E17
Soft-sediment deformation in Pleistocene sediments on the SW Baltic Sea (NE Germany) – Evidence for neotectonic activity
Gösta Hoffmann and Klaus Reicherter
Poster Discussion (continued)

Poster E18
How stable is the cliff north of the ‘Königsstuhl’ (Jasmund/Rügen)? – Coastal evolution during the last 50 years
Michael Kenzler, Karsten Obst, Heiko Hüneke and Karsten Schütze

Poster E19
Extreme storm surges in winter 2007 in the Pomeranian Bay and Szczecin Lagoon and their modelling
Halina Kowalewska-Kalkowska and Marek Kowalewski

Poster E20
Palynological determination of the age and ecological character of sediment series in the Szczecin Lagoon, southern Baltic Sea
Małgorzata Latalowa, Anna Pędziszewska, Marcelina Zimny, Dawid Weisbrodt and Ryszard K. Borówka

Poster E21
The sea-defence function of coastal brackish grasslands and reed beds at the southern Baltic Sea region
Jasmin Lendzion, Iris Möller, Tom Spencer, Adrian Hayes and Stefan Zerbe

Poster E22
Historical tsunami events on the southern Baltic coast
Andrzej Piotrowski

Poster E23
A morphotectonic map of the European lowland area, sheets Szczecin, Dziwnów – Preliminary report
Andrzej Piotrowski and Justyna Relisko-Rybak

Poster E24
Luminescence dating of coastal sand deposits from the Baltic Sea - Examples from Darss-Zingst and Świna Gate
Tony Reimann, Jan Harff, Ryszard Borówka, Krystyna Osadczuk and Sumiko Tsukamotolga

Poster E25
The extreme storm surge at the German coasts of the Baltic Sea in November 1872 - Reanalysis of the wind fields for coastal purposes
Gudrun Rosenhagen and Ingrid Bork

Poster E26
The state of Cape Hel
Stanisław Rudowski and Maria Rucińska-Zjadacz

Poster E27
Analysis of changes in meteorological and hydrological characteristics for marine coasts and lagoons in the Kaliningrad Oblast (south-east Baltic)
Zhanna Stont and Boris Chubarenko
**Poster Discussion (continued)**

Poster E28  
**Sedimentary structures of the coastal zone in the area of Pogorzelica, Poland**  
Paweł Sydor, Anna Mańkowska, Tomasz A. Łabuz and Stanisław Musielak

Poster E29  
**On the move: The steep cliff coast of Jasmund (Rügen Island)**  
Maria Wahle and Karsten Obst

Poster E30  
**The influence of the North Atlantic Oscillation on air temperature and precipitation along the southern Baltic Sea coast**  
Szymon Walczakiewicz, Piotr Łaniewski and Roman Marks

Poster E31  
**Maximum and minimum sea levels on the Polish coast**  
Bernard Wiśniewski and Tomasz Wolski

Poster E32  
**A long-term morphodynamic model and its application to the southern Baltic coast**  
Wenyan Zhang, Jan Harff and Chaoyu Wu
List of Participants
(as of 11 May)

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