

**Sopot, 19-23 June 2005
Program**

Sunday, June 19

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| 09:00 – 16:00 | BOOS Annual meeting, IOPAS building, Sopot |
| 10:00 – 16:20 | Workshop: Relative Sea Level changes, Polish Geological Institute building, Gdansk-Oliwa |
| 14:00 – 20:00 | BSSC Registration, Hotel Haffner, Sopot |
| 15:00 - | BMB meeting, hotel Haffner, lecture room “<u>Mysliwska</u>” |

Monday, June 20

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| 08:30 – 09:00 | Opening |
| 09:00 – 10:30 | <u>Plenary session:</u> CLIMATE CHANGE Chair: Pentti Mälikki |
| 9:00 – 9:30 | Invited: Hydrographic changes in Northern Seas and their impact on the Ocean Circulation and Climate - Robert R. Dickson |
| 9:30 – 9:45 | BACC – An attempt to summarize and assess knowledge about climate change and impact in the Baltic Sea Catchment area - <u>Hans von Storch</u>, Bodo von Bodungen, Phil Graham, Raino Heino, Heikki Toumenvirta |
| 9:45 – 10:00 | The Baltic Sea 100 years ago - <u>Fred Wulff</u>, Oleg Savchuk, Sven Hille, Christoph Humborg and Falk Pollene |
| 10:00 – 10:15 | The Baltic Sea ocean climate system memory and response to changes in the heat and water balance components - <u>Daniel Hansson</u>, Anders Omstedt |
| 10:15 – 10:30 | Sedimentary records of environmental changes of the central Baltic Sea during the past 1000 years - <u>Thomas Leipe</u>, Sven Hille, Maren Voss, Jan Bartholdy, Christian Christiansen |
| 10:30 – 11:00 | <i>Coffee</i> |
| 11:00 – 12:30 | <u>Plenary session:</u> CHANGING ECOSYSTEM Chair: Pauli Snoeijs |
| 11:00 – 11:30 | Invited: Baltic Sea research funding collaboration Kaisa Kononen, Stanislaw Massel |
| 11:30 – 11:45 | Variability of the environment and their consequences for succession phenomena – Irregular fluctuations causing stable trends? - <u>Hendrik Schubert</u> |
| 11:45 – 12:00 | Estuarine ecosystem under the increasing stress of biological invasions: experience in and perspectives for the development of monitoring system (case study of the eastern Gulf of Finland) – <u>Marina I. Orlova</u>, A. F. Alimov, I.V. Telesh., N.A. Berezina, A.A. Maximov |
| 12:00 – 12:15 | Changes in function and dynamics of the components of the eastern part gulf of Finland ecosystem - <u>Tatyana Eremina</u>, Alexey Isaev, Alexey Nekrasov |
| 12:15 – 12:30 | Assessment of iron bioavailability for Baltic cyanobacteria population in seawater from the Landsort Deep region - <u>Lidia Zeglinska</u>, Johan Gelting-Nystrom, Alicja Kosakowska, Johan Ingri |
| 12:30 – 14:00 | <i>Lunch</i> |
| 14:00 – 15:30 | <u>Parallel sessions:</u> |
| | CBO: VARIABILITY Chair: Vadim Paka , lecture room “ <u>Sopot</u> ” |
| 14:00 – 14:15 | Influence of temperature and precipitation on decadal Baltic Sea level variations in the 20th century - <u>Birgit Hünicke</u>, Eduardo Zorita |
| 14:15 – 14:30 | 15 years satellite derived Sea Surface Temperature of the Baltic Sea - <u>Herbert Siegel</u>, M. Gerth, G. Tschersich |
| 14:30 – 14:45 | Low-frequency variability of the Baltic Sea level fields on the base of the satellite altimeter data - <u>E.A. Zakharchuk</u>, A.K. Gusev, Yu.P. Klevantsov, N. A. Tikhonova, V. R. Foux |
| 14:45 – 15:00 | A 10 year simulation of the Baltic Sea –a model-based analysis of sea-level variability, circulation and ventilation rate of the Gulf of Bothnia - <u>Kai Myrberg</u>, Oleg A. Andrejev |

- 15:00 – 15:15 **Validation of Boundary Layer Parameters of Climate Model REMO** - E. Reimer,
B. Streckenbach, M. Woldt, H. Billing
- 15:15 – 15:30 **Centre for Marine Forecasting, DMI** - Erik Buch

BMB: ECOSYSTEM STRUCTURE AND PELAGIC PROCESSES, INCLUDING HARMFUL PHYTOPLANKTON BLOOMS I

Chair: **Teresa Radziejewska**, lecture room "**Gdansk**"

- 14:15 – 14:30 **Neva Estuary ecosystem: the past and the present** – Irena V. Telesh, S.M. Golubkov, A.F. Alimov
- 14:30 – 14:45 **Primary production and chlorophyll "a" concentration as indexes of eutrophication of the Neva Estuary (eastern Gulf of Finland)** – Mikhail S. Golubkov, S.M. Golubkov, L.P. Umnova
- 14:45 – 15:00 **Effects of the nutrient addition on the Baltic Sea diatom spring bloom**
Björn. H. Brodherr
- 15:00 – 15:15 **Seasonal cycle patterns of dominant phytoplankton groups in the Bornholm Basin (Baltic Sea): A comparison of *in situ* fluorescence profiles with a multispectrofluorometer and satellite data** – Dirk M. Mengedoh, J. van Beusekom, J.N. Schwarz
- 15:15 – 15:30 **Inter-annual variability of cyanobacteria blooms in the Baltic Sea** – Frank Janssen, M. Kahru, T. Neumann, T. Seifert

BSG: Workshops: Relative Sea Level change, Geological Institute, Gdansk
Baltic IODP project (see information at <http://www.pgi.gda.pl>)

15:30 - 16:00 *Coffee*

16:00 – 17:30 **Parallel sessions:**

CBO: PROCESSES

Chair: **Erik Buch**, lecture room "**Sopot**"

- 16:00 – 16:15 **Detection and description of mesoscale eddies in four deep basins of the Baltic Sea** - Jan Reissmann
- 16:15 – 16:30 **Geometry of soliton interactions in shallow water**- Tarmo Soomere, Jüri Engelbrecht
- 16:30 – 16:45 **Hydrographic conditions over Baltic Banks**- Philip Axe, Helma Lindow
- 16:45 – 17:00 **Knowledge of the Baltic Sea physics gained during the BALTEX and related programmes** - Anders Omstedt
- 17:00 – 17:15 **Simulations of eddy diffusivity in the Gulf of Finland** - Adolf Konrad Stips, Madis-Jaak Lilover
- 17:15 – 17:30 **On continuous sea level data assimilation in the Gdansk Basin (the Southern Baltic) - numerical study** - Andrzej Jankowski, Jan Jedrasik

BMB: ECOSYSTEM STRUCTURE AND PELAGIC PROCESSES, INCLUDING HARMFUL PHYTOPLANKTON BLOOMS II

Chair: **Maria I. Zmijewska**, lecture room "**Gdansk**"

- 16:00 – 16:15 **A simple tool for early prediction of the cyanobacteria *Nodularia spumigena* bloom biomass in the Gulf of Finland** - Madis-Jaak Lilover, J. Laanemets
- 16:15 – 16:30 **Near-coast blooms of the cyanobacterium *Nodularia spumigena* (Southern Baltic Sea) – Effects of iron manipulations in short-term microcosm experiments with dense bloom material** – Bianka Schubert, S. Dahlke, A. Schoor
- 16:30 – 16:45 **The influence of harmful algal blooms on development of juvenile salmon** – Maija Balode, M. Zagars, R. Medne, I. Purina, M. Pfeifere
- 16:45 – 17:00 **Improved Phytoplankton Dynamics in the Baltic Sea Applying a 3 Algae Species Model** - Anders Christian Erichsen, L. Bredahl, J.V.T. Sørensen, E.K. Rasmussen
- 17:00 – 17:15 **Could autoinvasions stop the bioinvaders – toxic cyanobacteria blooms and invasion of round goby, the Ponto-Caspian fish, in the Gulf of Gdansk** – Mariusz Sapota, Monika Graczyk

BSG: Workshops: Relative Sea Level changes Geological Institute, Gdansk
Baltic IODP project (see information at <http://www.pgi.gda.pl>)

18:00 – 19:00 **BONUS Workshop**, convener **Chris Hopkins**, lecture room "**Gdansk**"

19:00 – 21:00 **Reception/icebreaker - IO PAS garden**

Tuesday, June 21

09:00 – 10:30 Plenary session: LAST GLACIAL CYCLE RECORDS OF CLIMATE CHANGES

Chair: Leszek Marks, Jörn Thiede

9:00 – 9:30 Invited: The last glacial cycle and its impact in and around northern Eurasia
Jörn Thiede

9:30 – 9:45 **The palaeogeographical and climatic evolution of the Baltic Sea during the Last Interglacial** - Philip Gibbard

9:45 – 10:00 **Through the volcanic noise – a well-hidden Holocene paleoclimatic record from the Azores** - Svante Björck

10:00 – 10:15 **History the Baltic Sea during the last glacial cycle** - Thomas Andrén

10:15 – 10:30 **The Great Belt gateway to the Baltic** – Jorn Bo Jensen, O. Bennike, W. Lemke, A. Kuijpers, R. Endler

10:30 – 11:00 Coffee

11:00 – 12:30 Plenary session: MODELLING

Chair: Bernd Schneider

11:00 - 11:30 Invited: Modelling the Baltic, an over-the-horizon perspective
David Prandle

11:30 – 11:45 **Modeling the age of Baltic Sea water masses: inter-annual variability, steady-state sensitivity experiments, and scenarios** - H.E. Markus Meier

11:45 – 12:00 **Upwelling in the Baltic Sea – A numerical model case study** – Andreas Lehmann, H.-H. Hinrichsen

12:00 – 12:15 **Validation of oil drift models based on buoy experiments during a rapidly-crossing weather front in the Gulf of Finland** - Maria Gästgifvars, Hannu Lauri, Annakaisa Sarkanen, Kai Myrberg, Oleg Andrejev and Cecilia Ambjör

12:15 – 12:30 **Modelling the Carbon Cycle of the Baltic Sea** - Karin Wesslander and Anders Omstedt

12:30 – 14:00 Lunch

14:00 – 15:30 Parallel sessions:

CBO: MODELING I

Chair: Kai Myrberg, lecture room “Mysliwska”

14:00 – 14:15 **Results of simulation of mean circulation in the south Baltic** - Robert Osinski

14:15 – 14:30 **Investigations of the sensitivity of the 2003 Major Baltic Inflow using a 3D operational hydrodynamic model, with a view to the frequency of MBIs in future climates** – Peter S. Rasch, Anders C. Erichsen

14:30 – 14:45 **Operational modelling on the Baltic-North Sea water exchange – the state-of-the-art and future challenges** - Jun She

14:45 – 15:00 **A simple model of wind wave climate in semi-enclosed sea areas** - Tarmo Soomere

15:00 – 15:15 **Modeling waves in past and future climates of the Baltic Sea** - Barry Broman, H.E. Markus Meier

15:15 – 15:30 **Simulations of spreading of waste water in the Neva Bay with a 3-D model** – Vladimir Ryabchenko, Vladimir Konoplev, Vladislav Rumyanzev, Sergei Kondratjev, Shamil Pozdnyakov

15:30 – 15:45 **The influence of meteorological forcing on the results of an 3D ecosystem model of the Baltic Sea** - Christine Kremp, Torsten Seifert, Frank Janssen

BMB: PELAGIC PROCESSES: BALTIC ZOOPLANKTON AND FISH I

Chair:, lecture room “Gdansk”

14:30 – 14:45 **Zooplankton, layers and interactions** – Jan Schulz, H.-J. Hirche

14:45 – 15:00 **Certain aspects of the zooplankton community state in the different parts of the Baltic Sea at the end of 1990s - beginning of the 2000s years** – Tatiana A. Shchuka

15:00 – 15:15 **Scyphozoa in the Bornholm Basin (central Baltic Sea) – the role of advection** – Kristina Barz, H.-H. Hinrichsen, H.-J. Hirche

15:15 – 15:30 **Short term ecological structures of the mesozooplankton in the River Odra estuary** – Juliusz C. Chojnacki, S. Machula

BSG: MODELING OF SEDIMENTARY PROCESSES AND COASTAL GEOLOGY

Chair: **Terry Healy**, lecture room "**Sopot**"

- 14:00 – 14:15 **The erosion risk of surface sediments in the Mecklenburg Bight: Influences of data sets with different temporal and spatial resolutions** – Björn Bohling
- 14:15 – 14:30 **Numerical modeling of sand sediments moveability in the south-east Baltic Sea**
Nikolai Golenko, Maria Golenko, Vadim Sivkov, Sergey Shchuka
- 14:30 – 14:45 **Morphological, geological and hydrodynamic conditions of abrasion of Hel Peninsula in Kuznica region** – Leszek Leczynski
- 14:45 – 15:00 **Sediment transport and coastline changes in west Estonian archipelago**
Hannes Tõnisson, R. Rivas, U. Ratas, A. Kont, K. Orviku
- 15:00 – 15:15 **Holocene shore formation of the Baltic basins in the Lithuanian sector**
Jonas Seckus, L. Z. Gelumbauskaitė
- 15:15 – 15:30 **Southern coastal zone of the eastern Gulf of Finland development (from Lebyazhye settlement to St.Petersburg flood protective dam)** - G.A. Suslov, D.V. Riabtchouk, E.N. Nesterova, E.K. Fedorova

15:30 – 16:00 *Coffee*

16:00 – 17:30 **Parallel sessions:**

16:00 – 20:00 **CBO: Workshop: Ventilation of the Baltic Sea deep water**

Conveners: **Markus Meier, Reiner Feistel, Jan Piechura**, lecture room "**Mysliwska**"

16:00 - Jürgen Sellschopp, Volker Fiekas, Michaela Knoll, Frank Gerdes, Lars Arneborg, Ulrich Lass, Volker Mohrholz, Hans Burchard, Lars Umlauf - Repeated observations during an inflow event into the Arkona Sea

16.15 Fiekas, V., L. Arneborg, H. Prandke, J. Sellschopp, and M. Knoll: Fine-structure and mixing during a salt water inflow into the wintry Arkona Sea (O)

16.30 Burchard, H., H. U. Lass, V. Mohrholz, L. Umlauf, J. Sellschopp, V. Fiekas, K. Bolding, and L. Arneborg: Dynamics of medium-intensity dense water plumes in the Arkona Basin, Western Baltic Sea (O)

16.45 Arneborg, L., V. Fiekas, and H. Burchard: Mixing and dynamics of a gravity plume – observations, theory, and modeling (O)

17.00 Mohrholz, V.: On the contribution of small inflow events to the ventilation of the subhalocline layers of the Baltic (O)

17.15 Paka, V.T., and N.N. Golenko: Features of water exchange in vicinity of the Slupsk Sill and adjoining areas – field experiment (O)

17.30 – 18.00 Break (refreshments) and poster session (2 posters):

Kuzmina, N., B. Rudels, T. Stipa, and V. Zhurbas: The structure and driving mechanisms of the Baltic intrusions (P)

Mohrholz, V., and I. Schuffenhauer: Climatological aspects of the exceptional Baltic summer inflows 2002/2003 (P)

18.00 Zhurbas, V., T. Stipa, V. Paka, and N. Golenko: Observations and numerical modeling of subsurface cyclonic eddies in the Baltic Sea (O)

18.15 Nohr, C., and B.G. Gustafsson: Wind-driven diapycnal mixing in the Baltic Sea deep-water (O)

18.30 Feistel, R., G. Nausch, and E. Hagen: Unusual inflow activity 2002/3 and varying deep-water properties (O)

18.45 Meier, H.E.M., R. Döscher, B. Broman, and J. Piechura: The major Baltic inflow in January 2003 and preconditioning by smaller inflows in summer/autumn 2002: a model study (O)

19.00 Stips, A., R. Feistel, K. Bolding, and H. Burchard: Can we trace salt water inflows into the Gotland Deep with the 3D hydrodynamical model GETM ? (O)

19.15 - 20.00 Discussion

BMB: PELAGIC PROCESSES: BALTIC ZOOPLANKTON AND FISH II

Chair:, lecture room "**Gdansk**"

- 16:00 – 16:15 **Geolocation and habitat selection of eastern Baltic cod obtained by using Data Storage Tags (DSTs)** - Hans-Harald Hinrichsen, S. Neuenfeldt, A. Lehmann, C. Mills
- 16:15 - 16:30 **Restriction fragment length polymorphism as a molecular tool for *Gyrodactylus* species identification** - Magdalena Rokicka, J. Muchowski, M. Tryzna, M.S.Zietara

BSG: HUMAN IMPACT ON BOTTOM SEDIMENTS AND ENVIRONMENTAL GEOLOGY

Chair: **Jorn Bo Jensen** , lecture room "**Sopot**"

- 16:00 – 16:15 **Ecogeochemical sedimentology as new scientific field of environmental investigation of the Baltic Sea** – Gennady I. Ivanov
- 16:15 – 16:30 **Lithofacies of Holocene sediments and their anthropogenous change**
Alexander Rybalko, N. Fedorova, O. Korneev
- 16:30 – 16:45 **Some features of distribution of arsenic in the bottom sediments of the Baltic Sea**
Emelyan M. Emelyanov, V.A. Kravtsov
- 16:45 – 17:00 **Permanently anoxic bottoms in coastal basins of the northwestern gulf of Finland**
Henry Vallius
- 17:00 – 17:15 **Seabed sediment monitoring in the Gdansk Basin – a methodological approach**
Szymon Uscinowicz, J. Ridgway, A. Grigelis, C. Laban, J. Zachowicz
- 17:15 – 17:30 **Distribution of the total, lithogenic and labile forms of microelements in the bottom sediments of the freshwater and marine areas, and ports of eastern and south Baltic Sea – their geocological estimation** - Olegas Pustelnikovas, Grazyna Dembska, Jaroslaw Geldon, Piotr Szefer, Barbara Radke, Jerzy Bolalek

14:00 – 17:00 The Special Session on the occasion of the Polish Presidency of the Council of the Baltic Sea States. Session is organised by the Earth Branch of Polish Academy of Science and is addressed to the regional and local community leaders, lecture room "Gdynia"

- 14:00 Opening by Vice-President of the Polish Academy of Sciences
- 14:15-14:45 Potential of the Baltic Sea States: factors and conditions of their civilization, technological and institutional development (Z. Meyer, T. Parteka, Poland)
- 14:45-15:15 BONUS-regional ERA Network for Funding Agencies and perspectives of the common research program for the Baltic Sea (K. Kononen, Finland)
- 15:15-15:45 Coffee break
- 15:45-16:15 Biodiversity of the Baltic Sea States as their value at the European scale (S. Olenin, Lithuania)
- 16:15-16:45 Geographic Information System as a monitoring tool of the status and regional development of the Baltic Sea States (B. Ney and co-authors, Poland)
- 16:45-17:00 Closing remarks

18:30 BMB Committee meeting , lecture room "**Gdansk**"

17:30 – 18:30 POSTER SESSION – IO PAS Building

Wednesday, June 22

09:00 – 10:30 Plenary session: NEW PERSPECTIVE IN BIOLOGY

Chair: **Irena Telesh**

- 9:00 – 9:30 **Invited: Are molecular markers throwing new light on the evolution of species in the Baltic Sea?** - Kerstin Johannesson, Carl Andre
- 9:30 – 9:45 **Oxidative stress in the Baltic Sea ecosystem: implications for trophic interactions** - Pauli Snoeijs, Markus Forslund and Kalle Haikonen
- 9:45 – 10:00 **The pattern of polymorphism in the control region of female mitochondrial genome (mtDNA) in European populations of Mytilus mussel** - Beata Smietanka, Tomasz Kijewski, Malgorzata Zbawicka, Artur Burzynski, Herman Hummel, Roman Wenne
- 10:00 – 10:15 **Abnormal features of Macoma balthica (Bivalvia) in the Baltic Sea: alerting symptoms of environmental adversity?** - Adam Sokolowski, Maciej Wolowicz, Herman Hummel, Katarzyna Smolarz, Denis Fichet, Gilles Radenac, Catherine Thiriou-Quievreux, Jacek Namiesnik
- 10:15 – 10:30 **Ostracod shells from Holocene sediments of the Baltic Sea as proxies for the paleoenvironment** - Peter Frenzel

10:30 – 11:00 *Coffee*

11:00 – 12:30 Plenary session: SEDIMENTS

Chair: Jan Harff, Szymon Uscinowicz

- 11:00 – 11:30 Invited: Sediments as mirrors of a changing environment – examples from the Baltic** - Jan Harff
- 11:30 – 11:45 **Littoral Drift – A Critical Review** - [Terry Healy](#)
- 11:45 – 12:00 **The thickness of the Holocene mud in the Baltic and paleoreconstruction of the long-term near-bottom currents below halocline** – [Emelyan M. Emelyanov](#)
- 12:00 – 12:15 **Sediment Deposition and Burial of Carbon, Phosphorus and Nitrogen in sediments of the Eastern Gotland Basin (Baltic Sea) and its Impact to Eutrophication**
[Sven Hille](#), Thomas Leipe
- 12:15 – 12:30 **Methane in the seabed sediments of the Bornholm Basin** – [Jorn Bo Jensen](#), T. Laier and Henrik Fossing

12:30 – 14:00 Lunch

14:00 – 15:30 Parallel sessions:

CBO: CHEMICAL OCEANOGRAPHY I

Chair: **Detlef Schulz-Bull**, lecture room “**Sopot**”

- 14:00 – 14:15 **Land Derived Organic Matter In the Southern Baltic Sediments** - [Andrzej Staniszewski](#), Janusz Pempkowiak
- 14:15 – 14:30 **The influence of stagnant anoxic deepwater on long-term cadmium trends in the Gotland Basin (57°19,20'N; 20°03,00'E) Baltic Sea** - [Christa Pohl](#), Ursula Hennings
- 14:30 – 14:45 **Phosphorus fractions in the sediments of the central Gulf of Finland** – [Kaarina Lukkari](#), M. Leivuori
- 14:45 – 15:00 **Concentrations of heavy metals in Copepoda and Cladocera from the Southern Baltic**
[Janusz Pempkowiak](#), J. Walkusz-Miotk, J. Beldowski, W. Walkusz
- 15:00 – 15:15 **On redox dynamics in anoxic deeps of the Baltic Sea (Mn and Fe)**
[Alexander G. Rozanov](#)
- 15:15 – 15:30 **The role of biogenic sedimentation in the removal of PCB from the water column in the Baltic Sea** - [S.A. Mosharov](#)

BMB: SEDIMENT COMMUNITIES AND PROCESSES

Chair:, lecture room “**Gdansk**”

- 14:15 – 14:30 **Biological aspects of sediment erosion and deposition in the Mecklenburg Bight**
[Gerhard Graf](#), M. Friedrichs, F. Peine, K. Ziervogel
- 14:30 – 14:45 **Pigments in the Gulf of Gdansk as markers of eutrophication of this area**
[Malgorzata Szymczak-Zyla](#), Grazyna Kowalewska
- 14:45 – 15:00 **Community analysis and diversity of epilithic diatoms along the southern Swedish coast** – [Anna Ulanova](#), Pauli Snoeijjs
- 15:00 – 15:15 **Seasonal dynamics of marine plankton in the southern Baltic Sea**
[Lidia Dzierzbicka-Glowacka](#), Luiza Bielecka
- 15:15 -15:30 ***Platichthys flesus*, L. x *Pleuronectes platessa*, L. Hybrids in Southern Baltic-**
[Agnieszka Kijewska](#), Artur Burzynski, Roman Wenne

BSG: EVOLUTION OF THE BALTIC SEA AREA AND SEDIMENTS

Chair: **Svante Björck**, lecture room “**Gdynia**”

- 14:00 – 14:15 **Early Holocene shore level fluctuations and palaeogeography in the western Baltic Sea area** – [Wolfram Lemke](#), J.B. Jensen, O. Bennike, D. Rößler, Endler, R., H. Lübke
- 14:15 – 14:30 **The palynological investigations of the bottom sediments in the core from the Arcona Basin of the Baltic Sea** – [L.F. Yuspinga](#)
- 14:30 – 14:45 **Review of the history of the southern Baltic lagoons and barriers**
[Szymon Uscinowicz](#), J. Zachowicz, G. Miotk-Szpiganowicz
- 14:45 – 15:00 **The geodiversity of submarine moraine formations – a case study in the Kvarken Archipelago, Finland** – [Anu Reijonen](#), A. Kotilainen
- 15:00 – 15:15 **Paleogeographical features of sedimentation in the north Baltic (Late- and Post-glacial time)** – [Alexey V. Golubitsky](#)
- 15:15 – 15:30 **Reconstructing the geological past to predict future coastal development? Examples from the SW Baltic Sea-** [Gösta Hoffmann](#)

15:30 – 16:00 Coffee

16:00 – 17:30 Parallel sessions :

CBO: CHEMICAL OCEANOGRAPHY II

Chair: **Janusz Pempkowiak** , lecture room "**Sopot**"

- 16:00 – 16:15 **Input and behaviour of Persistent Organic Pollutants (POPs) in the Baltic Sea**
Detlef Schulz-Bull
- 16:15 – 16:30 **Distribution of organic material in the Baltic Sea and its contribution to the carbon and nitrogen cycle** - Klaus Nagel
- 16:30 – 16:45 **TBT contamination in sediments and tissues of the clam *Macoma balthica* off shipyards and marinas in Helsinki, Gulf of Finland** - Karoliina Munter, Liisa Autio, Kari K. Lehtonen, Ingela Dahllöf
- 16:45 – 17:00 **PAHs in the Gulf of Gdansk as markers of different pollution sources** - Ludwik Lubecki, Anna Filipkowska and Grazyna Kowalewska
- 17:00 – 17:15 **The distribution and sources of persistent organic contaminants in benthic organisms from the Gulf of Gdansk** – Ksenia Pazdro, E.Kopanska, M.Pucko, J.Kopecka, J.Pempkowiak
- 17:15 – 17:30 **PCB-transforming and BP-transforming heterotrophic bacteria groups are as biomarkers of bacteriocenosis receptivity to presence of toxicants in the sea water**- A.V. Tsyban, I.V. Mosharova

18:00 – 19:00 CBO Meeting, lecture room "Sopot"

BSG: SEA BED MAPPING AND SEDIMENTS

Chair: **Stanislaw Rudowski**, lecture room "**Gdynia**"

- 16:00 - 16:15 **New map of the Neva Bay bottom sediments and technogenic objects under the result of side-scan sonar profiling** – Mikhail A. Spiridonov , D.V. Riabtchouk , Y.P. Kropachev , E.N. Nesterova
- 16:15 – 16:30 **New Bathymetric Map of the Baltic Sea** – Natalya V. Goncharova, E.M. Emelyanov, T.I. Razheva, S. Zakharov
- 16:30 – 16:45 **Muddy bodies and contourites in the Baltic Sea** – Vadim Sivkov, M. Chestnova, D. Dorokhov, V. Gorbatskiy, E. Zykina
- 16:45 – 17:00 **The influence of the ferromanganese concretions forming processes in the Gulf of Finland at the marine environment** – Vladimir A. Zhamoida, A.G. Grigoriev
- 17:00 – 17:15 **Holocene depositional sequences of the Archipelago Sea, SW Finland**
Joonas Virtasalo, A. T. Kotilainen

16:00 BMB General Assembly, lecture room "Gdansk"

17:30 – 19:00 HELCOM Workshop: Ecosystem Assessment Tools for the Baltic Sea and Helsinki Commission (HELCOM) (Details see at www.helcom.fi), lecture room "**Gdynia**"

17:30 – 18:30 POSTER SESSION – IO PAS Building

Thursday, June 23

09:00 – 10:30 Plenary session: PROCESSES

Chair: **Anders Omstedt**

- 9:00 – 9:30 Invited: Light and photosynthesis in the Baltic Sea**
Slawomir Kaczmarek, Bogdan Wozniak
- 9:30 – 9:45 **Large halocline excursions in the Northern Baltic Proper and associated basin- and mesoscale processes** - Jüri Elken
- 9:45 – 10:00 **On dynamics of the inflow water in the Baltic Sea** - Jan Piechura
- 10:00 – 10:15 **Models and understanding of the Baltic Sea: long-term large-scale simulation of the nutrient cycle** - Oleg P. Savchuk and Fredrik Wulff
- 10:15 – 10:30 **Continuous CO₂ partial pressure measurements on a cargo ship: A useful tool for studying and monitoring biogeochemical processes in the surface water of the Baltic Sea** - Bernd Schneider

10:30 – 11:00 Coffee

11:00 – 12:30 Plenary session : MANAGEMENT AND CONFLICTS

Chair: **Hendrik Schubert**

11:00 – 11:30 Invited: Exclusive economic zones and the structure of global fisheries
Daniel Pauly

11:30 – 11:45 Vulnerability of the Baltic Sea habitats to the aquatic alien species invasions
Sergei Olenin

11:45 – 12:00 Tools for data analysis in Nest -- a decision support system for nutrient reduction in the Baltic Sea – Alexander Sokolov

12:00 – 12:15 Ecophysiology of the non-indigenous cladoceran *Cercopagis pengoi* in the northern Baltic Sea with special reference to the energetic significance – Leena Karjala, E. Lahdes

12:30 – 14:00 *Lunch*

14:00 – 15:30 Parallel sessions:

CBO: HUMAN IMPACT, MANAGEMENT

Chair: - **Jüri Elken** , lecture room "**Sopot**"

14:00 – 14:15 Studies of aerosol properties in coastal area - Tymon Zielinski, T. Petelski, J. Piskozub, V. Drozdowska

14:15 – 14:30 The distribution of biogenic components and trace metals in the Gulf of Finland
Viktor Kravtsov, Natalia Pankratova, Marina Kravtchishina

14:30 – 14:45 The acoustical detection and characterization of underwater meadows in Gdansk Bay (southern Baltic Sea) - Natalia Gorska, Jaroslaw Tegowski, Zygmunt Klusek, Dariush Faghani

14:45 – 15:00 The shape of wake waves from high-speed ferries in the coastal area - Kalev Rannat, Andres Kask, Reio Pöder, Tarmo Soomere

15:00 – 15:15 The impact of fast ferry traffic on the underwater optics and sediment resuspension
Ants Erm , Tarmo Soomere

15:15 – 15:30 EDIOS - Lotta Fyrberg, Patrick Gorringer

BMB: BIOINVASIONS

Chair: , lecture room "**Gdansk**"

14:15 – 14:30 Invader in a new ecosystem, interactions and consequences – round goby, the Ponto-Caspian fish in the Gulf of Gdansk - Mariusz Sapota

14:30 – 14:45 Resource partitioning between Flounder and the non-indigenous Round goby in the Gulf of Gdansk, Baltic Sea - Gustaf Almqvist, Agnes Karlson, Magnus Appelberg, Krzysztof Skora

14:45 – 15:00 The non-native crab *Eriocheir sinensis* in the Polish brackish waters: its distribution, characteristic and ecological impact - Monika Normant, J. Korthals, A. Szaniawska

15:00 – 15:15 The introduction of oligochaete *Tubificoides pseudogaster* into the eastern Gulf of Finland - Alexey A. Maximov, I. G. Tsiplenkina

15:30 – 16:00 *Coffee*

16:00 – 16:30 **Close**

Friday, June 24

Excursion to Malbork, if not less than 40 participants would apply cost appr. 10 Euro

Attention:

Dear participants,

In the Congress programme the names of the authors who will present papers are underline. In the most cases this is our guess. Please correct us asap.

Organizers