**BALTEX /Baltic Earth Publications**

<table>
<thead>
<tr>
<th>Contents</th>
<th>page</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Books</td>
<td>2</td>
</tr>
<tr>
<td>2. Special Journal Issues dedicated to Baltic Earth</td>
<td>4</td>
</tr>
<tr>
<td>3. Special Journal Issues dedicated to BALTEX</td>
<td>6</td>
</tr>
<tr>
<td>3. Peer-reviewed Journal Articles</td>
<td>18</td>
</tr>
<tr>
<td>4. Reports and Proceedings</td>
<td>59</td>
</tr>
<tr>
<td>5. Presentations at BALTEX Study Conferences</td>
<td>64</td>
</tr>
<tr>
<td>6. Presentations at Baltic Earth Conferences</td>
<td>103</td>
</tr>
<tr>
<td>7. International BALTEX Secretariat Publication Series</td>
<td>116</td>
</tr>
<tr>
<td>8. International Baltic Earth Secretariat Publication Series</td>
<td>121</td>
</tr>
</tbody>
</table>

The data base for the publications is the BALTEX/Baltic Earth electronic publication library, accessible via the Baltic Earth homepage at http://www.baltic-earth.eu. A book, journal article or report is qualified as a BALTEX/Baltic Earth publication, if either it describes results of a BALTEX/Baltic Earth project and BALTEX/Baltic Earth is explicitly referred to in the title, abstract, introduction or summary of the publication the publication makes explicitly reference to the programme, or if the publication contributes to at least one BALTEX Phase II/Baltic Earth objective or Grand Challenge, and the authors agree that their publication is listed on the Baltic Earth website and publication database.

At present, there are 18 books, 868 peer-reviewed journal articles, 67 reports, 937 Conference presentations with reference to BALTEX/Baltic Earth, as well as 55 issues of the International BALTEX Secretariat Publication Series (IBSP; ISSN 1681-6471) and 14 issues of the International Baltic Earth Secretariat Publication Series (IBESP; ISSN 2198-4247).

Status as of 19 July 2019

Silke Köppen and Marcus Reckermann

International Baltic Earth Secretariat
1. Books


Håkanson L, 2009: Modeling nutrient fluxes to, within and from the Kattegat to find an optimal, cost-efficient Swedish remedial strategy. Uppsala Univ., Geotryckeriet, 122 p.


2. Special Journal Issues dedicated to Baltic Earth

(Please note that the papers listed here are also part of the Peer-reviewed Journal Articles)

2.1 Earth System Dynamics, Vol. 8, 2017, an interactive open access journal of the European Geosciences Union

1st Baltic Earth Conference 2016, 18 papers


Daewel U, Schrum C: Low-frequency variability in North Sea and Baltic Sea identified through simulations with the 3-D coupled physical–biogeochemical model ECOSMO. pp 801-815, https://doi.org/10.5194/esd-8-801-2017, 07 Sep 2017


2.2 Frontiers, The Baltic Sea in Transition
2nd Baltic Earth Conference 2018, 43 authors have confirmed their participation

2.3 Baltic Earth continuous contributions to the Oxford Research Encyclopedias (ORE) "Climate Science"
Collection of overview papers authored by international scholars on specific topics around climate science of the Baltic Sea Region. The articles are peer-reviewed and intended as reference material for scientists from other fields, scholars, students and the interested public.

Lilja S: Climate, History, and Social Change in Sweden and the Baltic Sea Area From About 1700

Omstedt A: The Development of Climate Science of the Baltic Sea Region

Vuorinen I: Ecosystems of the Baltic Sea Since the Last Glaciation

Lavento M: Regional History of Settlement and Human Impacts in the Baltic Sea Region Over the Last 2000 Years

Räisänen J: Future Climate Change in the Baltic Sea Region and Environmental Impacts

Christensen OB, Kjellström E: Projections for Temperature, Precipitation, Wind, and Snow in the Baltic Sea Region until 2100
3. Special Journal Issues dedicated to BALTEX

(Please note that the papers listed here are also part of the Peer-reviewed Journal Articles)

3.1 Tellus, Series A, Vol. 48A, No. 5, 1996,
1st Study Conference on BALTEX 1995, 15 papers

Calanca P, Fortelius C: Representation of model data and evaluation of diagnostic equations in pressure coordinates. pp. 756-766

Haapala J, Leppäranta M: Simulating the Baltic Sea ice season with a coupled ice-ocean model. pp. 622-643

Heise E: An investigation of water and energy budgets for the BALTEX region based on short-range numerical weather predictions. pp. 693-707

Holopainen E: Diagnostic studies on atmospheric budgets of water and energy based on aerological data. pp. 750-755

Karlsson K-G: Validation of modelled cloudiness using satellite-estimated cloud climatologies. pp. 767-785


Keevallik S, Tooming H: Relationships between surface albedo and spring heat accumulation. pp. 727-732

Lass HU, Matthäus W: On temporal wind variations forcing salt water inflows into the Baltic Sea. pp. 663-671

Ljungemyr P, Gustafsson N, Omstedt A: Parameterization of lake thermodynamics in a high-resolution weather forecasting model. pp. 608-621

Lohmann D, Nolte-Holube R, Raschke E: A large-scale horizontal routing model to be coupled to land surface parametrization schemes. pp. 708-721


Omstedt A: Preface. pp. 607

Omstedt A, Nyberg L: Response of Baltic Sea ice to seasonal, interannual forcing and climate change. pp. 644-662

Russak V: Atmospheric aerosol variability in Estonia calculated from solar radiation measurements. pp. 786-792

Samuelsson M, Stigebrandt A: Main characteristics of the long-term sea level variability in the Baltic sea. pp. 672-683

Tooming H: Changes in surface albedo and air temperature at Tartu, Estonia. pp. 722-726

3.2 Meteorologische Zeitschrift, Vol. 9, No. 1-2, 2000
2nd Study Conference on BALTEX 1998, 14 papers
Graham LP, Jacob D: Using large-scale hydrologic modelling to review runoff generation processes in GCM climate models. pp. 49-58

Hagedorn R, Lehmann A, Jacob D: A coupled high resolution atmosphere-ocean model for the BALTEX region. pp. 7-20


Omstedt A, Rutgersson A: Closing the water and heat cycles of the Baltic Sea. pp. 59-66

Paplinski A: Case study of wave dependent drag coefficient in the Baltic Sea. pp. 67-72

Raschke E: BALTEX: Baltic Sea Experiment. pp. 5-6

Rutgersson A: A comparison between long term measured and modelled sensible heat and momentum fluxes using a High Resolution Limited Area Model (HIRLAM). pp. 31-40

Van Meijgaard E, Konings JA, Feijt A, van Lammeren A: Comparison of model predicted cloud cover profiles with observations from ground and satellite. pp. 21-30

The following 7 papers appear in Meteorologische Zeitschrift, Vol. 9, No. 2, 2000

Hantel M, Hamelbeck F: Convection in PIDCAP – A descriptive approach. pp. 77-84

Karlsson K-G: Satellite sensing techniques and applications for the purpose of BALTEX. pp. 111-116

Lindau R, Ruprecht E: SSM 1-derived total water vapour content over the Baltic Sea compared to independent data. pp. 117-124


Raschke E: Editorial: BALTEX: Baltic Sea Experiment. pp. 75-76

Stewart RE, Burford J, Crawford R: On the characteristics of the water cycle of the Mackenzie River Basin. pp. 103-110

Tooming H, Kadaja J: Snow cover and surface albedo in Estonia. pp. 97-102

Van Lammeren A, Feijt A, Konings J, van Meijgaard E, van Ulden A: Combination of ground-based and satellite cloud observations on a routine basis. pp. 125-134

3.3 Meteorology and Atmospheric Physics, Vol. 77, No. 1-4, 2001

The European NEWBALTIC project, 14 papers

Bengtsson L: Numerical modelling of the energy and water cycle of the Baltic Sea. pp. 9-18

Graham LP, Bergström S: Water balance modelling in the Baltic Sea drainage basin - analysis of meteorological and hydrological approaches. pp. 45-60


Hantel M: Editorial: Scientific results of the European NEWBALTIC project. pp. 1-8

Hess R: Assimilation of screen-level observations by variational soil moisture analysis. pp. 145-154


Jacob D: A note to the simulation of the annual and inter-annual variability of the water budget over the Baltic Sea drainage basin. pp. 61-74

Lenderink G, van Meijgaard E: Impacts of cloud and turbulence schemes on integrated water vapor: Comparison between model predictions and GPS measurements. pp. 131-144

Rockel B, Karstens U: Development of the water budget for three extra-tropical cyclones with intense rainfall over Europe. pp. 75-84


Van Meijgaard E, Andræ U, Rockel B: Comparison of model predicted cloud parameters and surface radiative fluxes with observations on the 100 km scale. pp. 109-130

3.4 Boreal Environment Research, Vol. 7, No. 3-4, 2002
3rd Study Conference on BALTEX 2001, 34 papers

Alestalo M: Preface. pp. 173


Etling D, Harbusch G, Brümmer B: Large-Eddy-Simulation of an off-ice airflow during BASIS. pp. 225-228

Feijt A, Jolivet D, van Meijgaard E: Retrieval of the spatial distribution of liquid water path from combined ground-based and satellite observations for atmospheric model evaluation. pp. 265-272


Gryning S-E, Batchvarova E: Marine boundary-layer height estimated from the HIRLAM model. pp. 229-235
Hollmann R, Gratzki A: The satellite derived surface radiation budget for BALTEX. pp. 247-252

Koistinen J, Michelson DB: BALTEX weather radar-based precipitation products and their accuracies. pp. 253-264

Kücken M, Gerstengarbe F-W, Werner PC: Cluster analysis results of regional climate model simulations in the PIDCAP period. pp. 219-224

Lorant V, MacFarlane N, Laprise R: A numerical study using the Canadian Regional Climate Model for the PIDCAP period. pp. 203-210


Raschke E, Meywerk J, Rockel B: Has the project BALTEX so far met its original objectives? pp. 175-182


The following 18 papers appear in Boreal Environment Research Vol.7, No 4, 2002

Alestito M: Preface. pp. 305

Berger FH: Surface radiant and energy flux densities inferred from satellite data for the BALTEX watershed. pp. 343-352


Clemens M, Bumke K: Precipitation fields over the Baltic Sea derived from ship rain gauge measurements on merchant ships. pp. 425-436


Lindau R: Energy and water balance of the Baltic Sea derived from merchant ship observations. pp. 417-424

Malinin VN, Nekrasov A, Gordeeva S: Inter-annual variability of the Baltic Sea water balance components and sea level. pp. 399-404

Maslowski W, Walczowski W: Circulation of the Baltic Sea and its connection to the Pan-Arctic region - a large scale and high-resolution modeling approach. pp. 319-326

Meier HEM, Döscher R: Simulated water and heat cycles of the Baltic Sea using a 3D coupled atmosphere-ice-ocean model. pp. 327-334


Roads J, Raschke E, Rockel B: BALTEX water and energy budgets in the NCEP/DOE reanalysis II. pp. 307-318


Stipa T, Vepsäläinen J: The fragile climatological niche of the Baltic Sea. pp. 335-342

Tomingas O: Relationship between atmospheric circulation indices and climate variability in Estonia. pp. 463-469

3.5 Atmospheric Research, Vol. 75, No. 3, 2005

The European CLIWA-NET project, 6 papers

Güldner J, Leps J-P: Analysis of CLIWA-NET intensive operation period data as part of the monitoring activities at the German Meteorological Service site Lindenberg. pp. 151-166

Illingworth A, Crewell S: CLIWA-NET: Observation and modelling of liquid water clouds. pp. 149-150

Meywerk J, Quante M, Sievers O: Radar based remote sensing of cloud liquid water — application of various techniques — a case study. pp. 167-182


Van Meijgaard E, Crewell S: Comparison of model predicted liquid water path with ground-based measurements during CLIWA-NET. pp. 201-226
Willen U, Crewell S, Baltink HK, Sievers O: Assessing model predicted vertical cloud structure and cloud overlap with radar and lidar ceilometer observations for the Baltex Bridge Campaign of CLIWA-NET. pp. 227-255

3.6 Nordic Hydrology, Vol. 36, No. 4-5, 2005
4th Study Conference on BALTEX 2004, 10 papers

Arpe K, Hagemann S, Jacob D, Roeckner E: The realism of the ECHAM5 models to simulate the hydrological cycle in the Arctic and North European area. pp. 349-368


Kitaev L, Førland E, Razuvaev V, Tveitoe OE, Krueger O: Distribution of snow cover over Northern Eurasia. pp. 311-320

Kjellström E, Döschler R, Meier HEM: Atmospheric response to different sea surface temperatures in the Baltic Sea: coupled versus uncoupled regional climate model experiments. pp. 397-410

Kowalewska-Kalkowska H, Kowalewski M: Operational hydrodynamic model for forecasting extreme hydrographic events in the Oder Estuary. pp. 411-422

Krysanova V, Hattermann F, Habeck A: Expected changes in water resources availability and water quality with respect to climate change in the Elbe River basin (Germany). pp. 321-334

Lindau R, Simmer C: Derivation of a root zone soil moisture algorithm and its application to validate model data. pp. 335-348

Omstedt A, Chen Y, Wesslander K: A comparison between the ERA40 and the SMHI gridded meteorological databases as applied to Baltic Sea modelling. pp. 369-380

Rutgersson A, Omstedt A, Chen Y: Evaluation of the heat balance components over the Baltic Sea using four gridded meteorological databases and direct observations. pp. 381-396

Sepp M, Post P, Jaagus J: Long-term changes in the frequency of cyclones and their trajectories in Central and Northern Europe. pp. 297

3.7 Boundary-Layer Meteorology, Vol. 121, No. 1, 2006
The LITFASS-2003 experiment, 10 papers


Bange J, Spieß T, Herold M, Beyrich F, Hennemuth B: Turbulent fluxes from Helipod flights above quasi-homogeneous patches within the LITFASS area. pp. 127-151


Heret C, Tittebrand A, Berger FH: Latent heat fluxes simulated with a non-hydrostatic weather forecast model using actual surface properties from measurements and remote sensing. pp. 175-194

Kohsiek W, Meijninger WML, Debruin HAR, Beyrich F: Saturation of the Large Aperture Scintillometer. pp. 111-126


3.8 Boreal Environment Research, Vol. 14, No. 1, February 2009

5th Study Conference on BALTEX 2007, 23 papers


Gustafsson EO, Omstedt A: Sensitivity of Baltic Sea deep water salinity and oxygen concentration to variations in physical forcing. pp. 18–30

Jaagus J: Regionalisation of the precipitation pattern in the Baltic Sea drainage basin and its dependence on large-scale atmospheric circulation. pp. 31–44


Draveniece A: Detecting changes in winter seasons in Latvia: the role of arctic air masses. pp. 89–99

Jacob D, Lorenz P: Future trends and variability of the hydrological cycle in different IPCC SRES emission scenarios — a case study for the Baltic Sea region. pp. 100–113

Kjellström E, Lind P: Changes in the water budget in the Baltic Sea drainage basin in future warmer climates as simulated by the regional climate model RCA3. pp. 114–124
Madsen KS, Højerslev NK: Long-term temperature and salinity records from the Baltic Sea transition zone. pp. 125–131


Sepp M: Changes in frequency of Baltic Sea cyclones and their relationships with NAO and climate in Estonia. pp. 143–151

Soomere T, Leppäranta M, Myrberg K: Highlights of the physical oceanography of the Gulf of Finland reflecting potential climate changes. pp. 152–165

Venäläinen A, Jylhä K, Kilpeläinen T, Saku S, Tuomenvirta H, Vajda A, Ruosteenoja K: Recurrence of heavy precipitation, dry spells and deep snow cover in Finland based on observations. pp. 166–172


Kundzewicz ZW: Adaptation to floods and droughts in the Baltic Sea basin under climate change. pp. 193–203

Gryning SE, Soegaard H, Batchvarova E: Comparison of regional and ecosystem CO₂ fluxes. pp. 204–212


Leal Filho W, Mannke F: Towards policies and adaptation strategies to climate change in the Baltic Sea region — outputs of the ASTRA project. pp. 250–254


6th Study Conference on BALTEX 2010, 16 papers

Pempkowiak J: Changing water, energy and biogeochemical cycles in the Baltic Sea basin. Preface


Služenikina J, Männik A: A comparison of ASCAT wind measurements and the HIRLAM model over the Baltic Sea. pp. 229-244


Speranskaya NA: Changes in some elements of the water cycle in the easternmost part of the Baltic Sea Drainage Basin between 1945 and 2010. pp. 279-292

Dailidienė I, Baudler H, Chubarenko B, Navrotskaya S: Long term water level and surface temperature changes in the lagoons of the southern and eastern Baltic. pp. 293-308


Soomere T, Räämet A: Spatial patterns of the wave climate in the Baltic Proper and the Gulf of Finland. pp. 335-371

Wiśniewski B, Wolski T: Physical aspects of extreme storm surges and falls on the Polish coast. pp. 373-390

Hongisto M: Variability of the marine boundary layer parameters over Baltic Sea sub-basins and their impact on nitrogen deposition. pp. 391-413

Schneider B: PO4 release at the sediment surface under anoxic conditions: a contribution to the eutrophication of the Baltic Sea? pp. 415-429

Väli G, Zhurbas V, Laanemets J, Elken J: Simulation of nutrient transport from different depths during an upwelling event in the Gulf of Finland. pp. 431-448

Dzierzbicka-Głowacka I, Jakacki J, Janecki M, Nowicki A: Variability in the distribution of phytoplankton as affected by changes to the main physical parameters in the Baltic Sea. pp. 449-470


Zhang W, Harff J, Schneider R: Analysis of 50-year wind data of the southern Baltic Sea for modelling coastal morphological evolution - a case study from the Darss-Zingst Peninsula. pp. 489-518

3.10 AMBIO, Vol. 41, Issue 6, September 2012

Special Issue ECOSUPPORT – Different Ecosystem Drivers under Future Climate Scenarios in the Baltic Sea, 11 papers

Meier HEM, Andersson HC: ECOSUPPORT: A Pilot Study on Decision Support for Baltic Sea Environmental Management. pp. 529-533


Havenhand JN: How will Ocean Acidification Affect Baltic Sea Ecosystems? An Assessment of Plausible Impacts on Key Functional Groups. pp. 637-644


3.11 AMBIO, Vol. 43, Issue 1, February 2014
Special Issue: BONUS+ in Support of the Ecosystem Approach to Management in the Baltic Sea, 11 papers


3.12 Oceanologia, Vol. 56, (2), May 2014

7th Study Conference on BALTEX 2013, 12 papers

Pham TV, Brauch J, Dieterich C, Frueh B, Ahrens B: New coupled atmosphere-ocean-ice system COSMO-CLM/NEMO: assessing air temperature sensitivity over the North and Baltic Seas. pp 167-189

Jakobson E, Keernik H, Luhamaa A, Ohvril H: Diurnal variability of water vapour in the Baltic Sea region according to NCEP-CFSR and BaltAn65+ reanalyses. pp 191-204

Krüger O: Observational evidence for human impact on aerosol cloud-mediated processes in the Baltic region. pp 205-222


Post P, Kõuts T: Characteristics of cyclones causing extreme sea levels in the northern Baltic Sea. pp 241-258


Sharov AN, Berezina NA, Nazarova LE, Poliakova TN, Chekryzheva TA: Links between biota and climate-related variables in the Baltic region using Lake Onega as an example. pp 291-306
Łabuz TA: Erosion reasons and rate on accumulative Polish dune coast caused by the January 2012 storm surge. pp 307-326

Szymczyna B, Maciejewska A, Winogradow A, Pempkowiak J: Could submarine groundwater discharge be a significant carbon source to the southern Baltic Sea? pp 327-347

Hongisto M: Impact of the emissions of international sea traffic on airborne deposition to the Baltic Sea and concentrations at the coastline. pp 349-372

Bulskaya I, Volchek A: Inorganic constituents in surface runoff from urbanised areas in winter: the case study of the city of Brest, Belarus. pp 373-383

Kundzewicz ZW: Adapting flood preparedness tools to changing flood risk conditions: the situation in Poland. pp 385-407
3. Peer-reviewed Journal Articles

This list represents the continuum of BALTEX and Baltic Earth (since 2014) publications, sorted alphabetically.


tem effects on the Baltic Sea at future climate change projections – implications for eco-
system management. Ambio 44(S3):S335-S344

Andersson C, Langner J, 2007: "Inter-annual variations of ozone and nitrogen dioxide over
Europe during 1958-2003 simulated with a regional CTM", Water Soil and Air Pollution:
Focus 7:15-23

Andersson C, Langner J, Bergström R, 2007: Inter-annual variation and trends in air pollution
over Europe due to climate variability during 1958-2001 simulated with a regional CTM
coupled to the ERA40 reanalysis. Tellus B 59:77-98


Arheimer B, Andersson L, Alkan-Olsson J, Jonsson A, 2007: Using catchment models to estab-
lish measure plans according to the Water Framework Directive. Water Science and Tech-
nology 56:21-28

Arpe K, Hagemann S, Jacob D, Roeckner E, 2005: The realism of the ECHAM5 models to simu-
late the hydrological cycle in the Arctic and North European area. Nordic Hydrology 36(4-
5):349-369

Arst H, Erm A, Leppäranta M, Reinart A, 2006: Radiative characteristics of ice-covered fresh-

of boreal lake waters in Finland and Estonia. Boreal Environment Research 13(2):133 -
158

long-term observations of the carbonate system dynamics in the water column of a tem-

Axell LB, 2002: Wind-driven internal waves and Langmuir circulations in a numerical ocean

A regional programme of measures for the marine environment based on the Ecosystem

Bange J, Spieß T, Herold M, Beyrich F, Hennemuth B, 2006: Turbulent fluxes from Helipod
flights above quasi-homogeneous patches within the LITFASS area. Boundary-Layer Me-
teorology 121(1):127-151

Barkhordarian A, von Storch H, Zorita E, Gómez-Navarro J, 2016: An attempt to deconstruct
recent climate change in the Baltic Sea Basin. Journal of Geophysical Research - Atmos-
pheres 121(22):13207-13217

Bartolino V, Tian H, Bergström U, Jounela P, Aro E, Dieterich C, Meier HEM, Cardinale M,
and hydrographic effects on Baltic Sea cod population. PLOS ONE
http://dx.doi.org/10.1371/journal.pone.0172004

Batchvarova E, Gryning S-E, 2003: Use of Richardson number methods in regional models to
calculate the mixed-layer height. Air pollution processes in regional scale. NATOScience
Series. Series IV: Earth and Environmental Sciences 30:21-29


Bengtsson L, 2001: Numerical modelling of the energy and water cycle of the Baltic Sea, Meteorology and Atmospheric Physics 77:9-17


Berger FH, 2002: Surface radiant and energy flux densities inferred from satellite data for the BALTEX watershed. Boreal Environmental Research 7(4):343-351


Bierstedt S, Hünicke B, Zorita E, 2015: Variability of wind direction statistics of mean and extreme wind events over the Baltic Sea region. Tellus A 67(1)


Blomqvist S, Ekeroth N, Elmgren R, Hall POJ, 2015: Long over-due improvement of box corer sampling. – Marine Ecology Progress Series 538:13-21


Clemens M, Bumke K, 2001: Comparison of precipitation in-situ measurements and model predictions over the Baltic Sea area. Physics, Chemistry and Earth Sciences (B) 26(5-6): 437-442


Daewel U, Schrum C, 2017: Low frequency variability in North Sea and Baltic Sea identified through simulations with the 3-d coupled physical-biogeochemical model ECOSMO, Earth Syst Dynam 8:801-815, https://doi.org/10.5194/esd-8-801-2017


Esiukova E, 2016: Plastic pollution on the Baltic beaches of Kaliningrad region, Russia. Mar Pollut Bull 114(2):1072-1080


Graham LP, 2004: Climate change effects on river flow to the Baltic Sea, Ambio 33(4-5):235-241


Gröger M, Dieterich C, Meier HEM, Schimanke S, 2015: Thermal Air-Sea Coupling in Hindcast Simulations for the North Sea and Baltic Sea on the NW European Shelf. TellusA 67:26911


Güldner J, Leps J-P, 2005: Analysis of CLIWA-NET intensive operation period data as part of the monitoring activities at the German Meteorological Service site. Atmospheric Research 75(3):151-166


Gustafsson EO, Omstedt A, 2009: Sensitivity of Baltic Sea deep water salinity and oxygen concentrations to variations in physical forcing. Boreal Environmental Research 14:18-30


Hägg HE, Lyon SW, Wällstedt T, Mörh CM, Claremar B, Humborg C, 2013. Future Nutrient Load Scenarios for the Baltic Sea Due to Climate and Lifestyle Changes. AMBIO 43(3)337-351


Håkanson L, 2008: Factors and criteria to quantify the bioproduction potential of coastal areas and presentation of a simple operational Index of Biological Value (IBV) for coastal management. Open Marine Biology Journal 2:64-73


Håkanson L, 2009: Factors and Criteria to Quantify the Bioproduction Potential of Coastal Areas and Presentation of a Simple Operational Index of Biological Value (IBV) for Coastal Management. Open Marine Biology Journal 3:6-15

Håkanson L, 2009: A general process-based mass-balance model for phosphorus/eutrophication as a tool to estimate historical reference values for key bioindicators, as exemplified using data for the Gulf of Riga. Ecological Modelling 220:226-244


Håkanson L, Bryhn AC, 2009: Coastal eutrophication: Whether N and/or P should be abated depends on the dynamic mass balance. Proc Natl Acad Sci 106:3-3

Håkanson L, Duarte CM, 2008: Data variability and uncertainty limits the capacity to identify and predict critical changes in coastal systems – A review of key concepts Ocean & Coastal Management 51:671-688


Hansson D, Omstedt A, 2008: Modelling the Baltic Sea ocean climate on centennial time scale: temperature and sea ice. Climate Dynamics 30:763-778


Heinänen S, Rönkä M, von Numers M, 2008: Modelling the occurrence and abundance of a colonial species, the arctic tern Sterna paradisaea in the archipelago of SW Finland. Ecography 31:601-611


Jacob D, 2001: A note to the simulation of the annual and inter-annual variability of the water budget over the Baltic Sea drainage basin. Meteorology and Atmospheric Physics, 77:61-74


Krysanova V, Hattermann F, Habeck A, 2005: Expected changes in water resources availability and water quality with respect to climate change in the Elbe River basin (Germany). Nordic Hydrology 36(4-5):321-335


Lavento M, 2018: Regional History of Settlement and Human Impacts in the Baltic Sea Region Over the Last 2000 Years. OXFORD RESEARCH ENCYCLOPEDIA (ORE) , "CLIMATE SCIENCE" http://climatescience.oxfordre.com/browse?t0=ORE_CLI:REFCLI036


Lindau R, Ruprecht E, 1999: SSM/I-derived total water vapour content over the Baltic Sea compared to independent data. Meteorologische Zeitschrift 9(2):117-123


Linderholm HW, Chen D, 2005: Winter in central Scandinavia precipitation variability during the past five centuries inferred from Pinus sylvestris tree rings. Boreas 34:43-52


Meier HEM, 2002: Regional ocean climate simulations with a 3D ice-ocean model for the Baltic Sea. Part 2: Results for sea-ice. Climate Dynamics 19:255-266


Meier HEM, 2007: Modeling the pathways and ages of inflowing salt- and freshwater in the Baltic Sea. Estuarine, Coastal and Shelf Science 74(4):610-627


Michelson DB, Koistinen J, 2000: Gauge-radar network adjustment for the Baltic Sea Experiment. Physics and Chemistry of the Earth (B) 25(10-12):915-920


Omstedt A, Edman M, Claremar B, Rutgersson A 2015: Modelling the contributions to marine acidification from deposited SOx, NOx, and NHx in the Baltic Sea: Past and present situations. Continental Shelf Research 111:234-249


Raschke E, Meywerk J, Rockel B, 2002: Has the project BALTEX so far met its original objectives? Boreal Environment Research 7:175-182


Rubel F, Brugger K, 2009: 3-hourly quantitative precipitation estimation over Central and Northern Europe from rain gauge and radar data. Atm. Res. 94:544-554


Schenke F, Zorita E, 2012: Reconstruction of high resolution atmospheric fields for the Northern Europe using analog-upscaling. Climate of the Past 8:1-23


Schrum C, 2017: Regional Climate modeling and air-sea coupling, Climate Science: Oxford Research Encyclopedias, DOI:10.1093/acrefore/9780190228620.013.3


Sproson D, Sahlée E, 2014: Modelling the impact of Baltic Sea upwelling on the atmospheric boundary layer. Tellus 66A:24041


Van Meijgaard E, Crewell S, 2005: Comparison of model predicted liquid water path with ground-based measurements during CLIWA-NET. Atmospheric Research 75(3):201-226


Van Meijgaard E, Andrae U, Rockel B, 2001: Comparison of model predicted cloud parameters and surface radiative fluxes with observations on the 100km scale. Meteorology and Atmospheric Physics 77:109-130


Vihma T, 2014: Effects of Arctic Sea Ice Decline on Weather and Climate: A Review Surv Geophys DOI 10.1007/s10712-014-9284-0


Vuorinen I, 2018: Ecosystems of the Baltic Sea Since the Last Glaciation. OXFORD RESEARCHENCYCLOPEDIA (ORE), "CLIMATE SCIENCE" http://climatescience.oxfordre.com/browse?t0=ORE_CLI:REFCLI036


Willén U, Crewell S, Baltink HK, Sievers O, 2005: Assessing model predicted vertical cloud structure and cloud overlap with radar and lidar ceilometer observations for the Baltex Bridge Campaign of CLIWA-NET. Atmospheric Research 75(3):227-255


Zalewski M, 2000: Ecohydrology - the scientific background to use ecosystem properties as management tools toward sustainability of water resources. Guest Editorial, Ecological Engineering 16:1-8

Zalewski M, 2002: Ecohydrology - the use of ecological and hydrological processes for sustainable management of water resources. Hydrological Sciences Journal 47(5):825-834


4. Reports and Proceedings


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5. Presentations at BALTEX Study Conferences

5.1 First Study Conference on BALTEX, Visby, Sweden, 1995
Page numbers refer to the Conference Proceedings
Total number of presentations: 103


Andrejev O: Reconstruction of hydrophysical fields of the Baltic Sea using a four-dimensional data analysis. pp 49

Babkin VL: River discharge from the territory of the Russian Federation to the Baltic Sea. pp 50

Becker A: Climate impact studies in eastern Brandenburg the semi-distributed hydrological model EGMO and proposal for nested drainage basin studies (HYNEST). pp 51

Bengtsson L: The hydrological cycle in climate and weather prediction. pp 1

Bennartz R: Rainfall and cloud identification over oceans and coastal regions using a combination of infrared and microwave satellite data. pp 55

Berger FH: Radiation budget components inferred from satellite data for the Baltic Sea. pp 56

Bergström S: River runoff to the Baltic Sea – Natural variability and human impact. pp 53


Calanca P: Atmospheric diagnostics from assimilation products of a high resolution limited area model. pp 59

Carlsson B: Modelling the Baltic river. pp 60

Chubarenko B: Principal model of water exchange process between Vistula Bay and Baltic Sea area. pp 62

Dera J: Solar radiation energy absorbed by Baltic waters: The example of the Gdansk basin. pp 63

Dowell MD.: Microspectral analysis, seasonal and geographic variability, in the Baltic proper. pp 64

Drusch M: Microwave surface emissitivity retrieval in the BALTEX area. pp 65

Dubicki A: Pattern of long-term changes in precipitation amount in the area of Poland as an effect of anthropogenic factors. pp 67

Dubra J: Long-term trends of outflow of the coastal waters from the lagoon Kurschiu Marios. pp 69

Eiola K: On the development of a thermocline in spring at temperatures below the temperature of maximum density with application to the Baltic Sea. pp 70

Elo A-R: The heat balance components calculated with the probe temperature model fort wo lakes. pp 71
Evreeva S: Variability of sea surface characteristics in estuaries under the conditions of natural climate variations, river runoff and ice effects. pp 73

Fashchevsky BV: Hydrological and hydrochemical changes in the Baltic Sea basin rivers and lakes in Belarus. pp 74

Ferrari GM: Multi-seasonal analysis of CDOM characteristics in the southern Baltic proper. pp 76

Füg C: Resolution enhancement of microwave observations over the Baltic Sea. pp 77

Funkquist L: Atmospheric large-scale forcing of the water exchange in the Danish straits between the North Sea and the Baltic. pp 79

Grisogono B: The response of thermally forced mesoscale coastal circulations on the synoptic wind direction. pp 80

Grossklaus M: Precipitation measurements on moving ships. pp 81

Gustafsson B: A time-dependent model for calculation of high saline inflows to the Baltic Sea. pp 83

Gustafsson N: Mesoscale re-analysis for BALTEX – A pilot study. pp 84

Haapala J: A data bank for the Baltic Sea ice climate studies. pp 86

Haapala J: Baltic Sea ice winter simulations with coupled ice-ocean model. pp 87

Hall AJ: NOAA Core project support for GCIP. pp 88

Heise E: An investigation of energy and water budgets for the BALTEX area based on short-range numerical weather predictions. pp 90

Hoepffner N: Underwater Light satellite seatruth experiment (ULISSE). pp 92

Holopainen E: A review of diagnostic studies on atmospheric budgets of energy and water. pp 93

Högström U: The Östergarnsholm air/sea-interaction project. pp 94

Isemer H-J: Windspeed and evaporation at the surface of the Baltic Sea. pp 96

Jaagus J: Mesoscale precipitation pattern in Estonia. pp 97

Jacob D: REMO-A model for climate research and weather forecast. pp 99

Järvet A: Temporal and spatial variability of runoff coefficient in Estonia. pp 100

Kadaja J: The variability and its changes in time of sunshine duration and precipitation in Estonia. pp 102

Karing P: Microclimate system study. pp 104

Karlin LN: Implementation of UNESCO „Baltic floating University“ Programme in the Gulf of Finland. pp 105

Karlsson K-G: The cloud climate in the Baltic Sea region estimated from NOAA AVHRR imagery. pp 106

Karstens U: Water and energy balances over the BALTEX area for June 1993. pp 108

Keevallik S: Relationships between snow cover and temperature in snow transient regions. pp 109
Kleine E: On Hibler’s model of large-scale sea-ice dynamics including its application to the Baltic Sea. pp 110
Kondratiev AV: Retrieving opto-meteorological characteristics and its applications for calibration of SMMR sea ice concentration data. pp 112
Kouts T: On water renewal of intermediate layers of the Baltic Sea. pp 113
Kuusisto E: Hydrology and Hydroenergetics of the Baltic drainage. pp 18
Laine V: Estimation of surface albedo at high latituded conditions from NOAA AVHRR data. pp 115
Lass HU: On wind patterns forcing major inflows into the Baltic Sea. pp 116
Lehmann A: A coupled ice-ocean model of the Baltic Sea. pp 117
Liljebladh B: Observations of the deep water flow into the Baltic Sea. pp 118
Lindkvist T: Basic physiographic information of the Baltic drainage basin. pp 119
Ljungemyr P: Parameterization of lake thermodynamics in a high resolution weather forecasting model. pp 120
Lobmeyr M: Simulation of the water cycle over the Elbe region – a grid-related model for river routing and overland flow. pp 122
Lohmann D: Hydrological modelling on the regional scale. pp 124
Lüllwitz T: Transformation of measured flow data to grid points. pp 125
Matthäus W: Characteristics atmospheric circulation patterns necessary for the occurrence of major Baltic inflows. pp 126
Meier HEM: A regional high-resolution model of the Western Baltic in connection with data assimilation using the adjoint method. pp 127
Michelson DB: Swedish weather radar data in BALTEX. pp 129
Mikhailov AY: Generalization of meso-meteorological modeling results for the large-scale estimates of land-atmosphere energy exchange on the Russian plain. pp 131
Mitosek HT: Reflection of climate variability within the monthly mean time series of temperature and discharge in the Baltic Sea drainage basin: A statistical approach. pp 132
Mölders N: On the influence of surface heterogeneity on the water cycle. pp 137
Müller E: „Litfass“ – a nucleus for a BALTEX field experiment. pp 133
Murthy CR: Measurements of circulation and horizontal turbulence characteristics using Lagrangian techniques in large lakes. pp 136
Myrberg K: Two and three-dimensional hydrodynamic models for the Baltic Sea – a comparison of different meteorological forcings. pp 135
Nolte-Holube R: Episodes of energy and water transports inside the BALTEX area during May and June 1993. pp 139
Nyrberg L: Forecasting ice in the Baltic Sea. pp 140
Omstedt A: A Baltic sea ice climate model. pp 141
Petelski T: Emission of sea spray droplets and their contribution to air-sea exchange. pp 142
Post P: Regional distribution of daily rainfall over the territory of Estonia and Latvia. pp 143
Pozdnyakov DV: Phytoplankton communities in the lake Ladoga-Neva river-eastern part of the Gulf of Finland water system: Implications for the remote monitoring of hydrodynamic patterns. pp 145
Ramm D: 3-D Simulation of raining clouds and their microwave radiation. pp 146
Raschke E: BALTEX – a regional component of GEWEX. pp 184
Refsgaard J: Methodology for modelling of hydrological processes and subgrid variability in the hydrological-atmospheric coupling. pp 147
Robakjewicz M: Velocities in vertical cross-section – problems in 3D models. pp 148
Rockel B: Comparison of components of the energy and water cycle for Remo, EM and ECMWF T213 weather forecast models for May/June 1993. pp 149
Russak V: Atmospheric aerosol variability in Estonia. pp 151
Sandström S: A climatological study of the wind resources in the Baltic area using a mesoscale model. pp 152
Samuelsson M: Sea level variability in the Baltic Sea. pp 154
Samuelsson M: Long-term horizontal sea level variations in the Baltic Sea. pp 155
Serwazi M: Profiling of water vapor concentration and cloud parameters by Raman Lidar. pp 157
Shkolnick IM: On the problem of evaluation of regional moisture cycle by means of the atmospheric general circulation models. pp 159
Simmer C: Water vapor and cloud liquid water over the Baltic Sea derived from SSM/I observations. pp 160
Sivkov VV: The distribution of suspended matter in the Gotland deep. pp 162
Smedmann A-S: The structure of the stable marine boundary layer over the Baltic Sea. pp 163
Smirnova AI: Variability of water exchange through the Danish straits and its influence onto forming the regime of the Baltic Sea. pp 165
Stanislawczyk L: Severity of winters at the Polish coast. pp 167
Starosta K: Characteristics of the water vapor flux field of Baltic Sea. pp 168
Stigebrandt A: The large-scale vertical circulation of the Baltic Sea. pp 28
Sytchec VI: Applications of remote sensing data. pp 170
Sztobryn M: Application of remote sensing data (NIMBUS-7, F8) for modelling of ice processes in the Baltic Sea. pp 171
Tjernström M: Numerical simulations of thermally driven mesoscale circulations on the Baltic coast. pp 172
Tooming H: Trends in snow cover, surface albedo and temperature in Estonia. pp 173
Tsarev V: Simulation of a dense water intrusion into the Baltic. pp 175
Vedom R: Amount of water, energy and heating is brought by Estonian rivers to the Baltic Sea. pp 176
Venäläinen A: The spatial variation of mean monthly global radiation in Finland. pp 178
Wozniak Z: Measured and estimated precipitation in the mountain areas. pp 179
Wroblewski A: Principal forcing factors of the seasonal Baltic mean sea level oscillations. pp 181
Vuglinsky V: Basic trends in the contribution of Russian scientists to the implementation of BALTEX project. pp 182
Zhuravin S: Trends in hydrological regime changes in the Baltic Sea basin on the territory of Russia. pp 183

5.2 Second Study Conference on BALTEX, Rügen, Germany, 1998

Page numbers refer to the Conference Proceedings.
Total number of presentations: 139

Alestalo M: BRIDGE - The central modelling and observational period in BALTEX - actual planning status. pp 3
Andersson T, Michelson DB: Vertical reflectivity profiles to detect radar mirages (ANAPROP). pp 4
Andrejev O, Engqvist A: Water exchange of the Stockholm archipelago on ecologically relevant time scales. A cascade modeling approach. pp. 6
Arpe K: The hydrological cycle in the ECHAM4 model over the BALTEX area. pp 7
Axell L: Deep-sea mixing in the Baltic Sea in relation to wind energy. pp 8
Belenko S, Chichkova E, Kondratiev A: Retrieval of clouds water content using satellite data in summer 1997 in eastern Europe. pp 12
Bengtsson L: Snow in the Baltic Basin - Diagnostics and modelling. pp 13
Bengtsson L: Climate modelling of the Baltic Sea catchment area. pp 14
Bennartz R, Michelson DB: Correlation of precipitation estimates derived from the Gotland weather radar and the DMSP SSM/I during BALTEX PIDCAP. pp 15
Bergström S: Internal model validation - A necessity for confidence in water balance parameterisation. pp 16
Beszczynska-Möller A: Transport of dense, near-bottom waters in the Stolpe Channel and related meso-scale hydrodynamic structures. pp 18
Beyrich F, Neisser J: The meteorological observatory in Lindenberg and the LITFASS facilities - A core base for a BALTEX cloud/precipitation - land surface processes experiment. pp 20
Blomgren S, Larson M, Hanson H: Numerical modelling of the wave climate in the southern Baltic Sea. pp 21

Brandt R, Karstens U, Raschke E, Rockel B: Validation of REMO using synoptical observations. pp 25

Buchholz W, Dybkowska-Stefek D: Assessment of flood risk in the lower Odra river region. pp 27

Bumke K, Karger U, Hasse L: Evaporation over the Baltic Sea. pp 28


Chomka M: Some aspects of mass transfer modelling in various coastal zones. pp 32


Drusch M: Determination of land surface parameters from SSM/I passive microwave brightness temperatures with a surface emission model. pp 35

Dubicki A: The Odra flooding event 1997 Characteristic of the process of rising and development and anti-flood management. pp 36


Elgered G, Dodson AH, A. Rius, B. Bürki and M. Rotacher: The wavefront project Ground-based GPS meteorology in Europe. pp 43


Ewertowski R: Unsteady flow modelling in the lower Odra river network including atmospheric pressure and wind forces. pp 45

Fortelius C: Improving the atmospheric water budget of a forecasting system using a linear error model. pp 47

Franke A, Grossklaus M, Hasse L, Michelson DB: Comparison of ship gauge and radar precipitation measurements over the Baltic Sea. pp 49

Füg C, Ruprecht E: Applications of satellite microwave observations for a verification of REMO. pp 51

Gottschalk L, Beldring S, Engeland K, Motovilov Y: Hydrologic macro-modelling Experiences from NOPEX. pp 53

Graham LP, Jacob D: Using large-scale hydrologic modeling to review runoff generation processes in GCM climate models. pp 54

Grossklaus M, Hasse L, Jacob D, Karstens U, Uhlig K: Comparison of in situ measurements and model forecasts of precipitation over the Baltic Sea. pp 56

Gryning S-E, Batchvarova E, Gottschalk L, Lindroth A: Comparison of regional sensible and latent heat flux estimates from NOPEX. pp 58

Gustafsson B: Simulation of stratification and ice conditions in the Baltic Sea during the period 1961 - 1993. pp 60
Gustafsson N, Ivarsson Kl, Omstedt A: Coupling of atmospheric, ocean and lake models for BALTEX mesoscale re-analysis purposes. pp 61

Haapala J: Modelling of the ice thickness redistribution. pp 63

Haberlandt U, Kite GW: Macroscale hydrological modelling for the Mackenzie River Basin. pp 64

Hagedorn R, Jacob D, Lehmann A: A coupled high resolution atmosphere - ocean model for the BALTEX region. pp 66

Halldin S: NOPEX and WINTEX - Achievements and future plans. pp 68

Hamelbeck F, Hantel M: Quantification of convection from gridscale budgets. pp 71

Heikinheimo M, Koivusalo H, Kangas M: Energy fluxes above a snow covered surface during WINTEX-CFE3 in Sodankylä. pp 73

Heise E: The climate of short-range predictions with the Europa-Modell compared to observations. pp 75

Hietala R, Vihma T, Alenius P, Mälkki P: Heating of the upper layer of the sea A case study. pp 77

Isemer H-J: Sea ice concentration at the Baltic Proper - A digital 1j data set for 1964 to 1995. pp 78

Isemer H-J, Lindau R: Climatological estimates of precipitation and evaporation over the Baltic Proper based on COADS. pp 80

Isemer H-J, Lindau R, Jacob D, Omstedt A: The water balance at the surface of the Baltic Proper - Comparison of observations and model results. pp 82

Ivlev LS, Melekhina E: Variations of structure aerosols in the bottom layers of atmosphere of southern coast of a Finnish gulf. pp 85

Jacob D, Windelband M, Podzun R: Influence of different physical parameterization schemes on the simulated water and energy balance of the Baltic Sea Drainage Basin. pp 87

Jacob D, Lorenz P, Windelband M, Podzun R: Odra Flooding, July 97, simulated with REMO. pp 89

Jakubiak B, Herman-Izycki L, Wasowski A: Humidity assimilation into the mesoscale model. pp 91


Jensen J, Blasi C: Changes of synoptic water data in the south-western Baltic Sea. pp 95

Kaczmarek S, Dera J: Radiation fluxes balance of the sea-atmosphere system for the southern Baltic region. pp 97

Karlsson KG: Satellite sensing techniques and applications for the purposes of BALTEX. pp 8


Klevanny KA: Modeling floods for the present state of St. Petersburg flood protection barrier. pp 106

Köpken C: Investigation of atmospheric humidity in a numerical model using detailed model diagnostics and GPS, SSM/I, and ground-based microwave radiometer data. pp 109
Kowalewska-Kalkowska H: Hydrological and meteorological determination of physical fields changeability in the coastal area of the Pomeranian Bay. pp 111

Kramm G, Foken T: Uncertainty analysis on the evaporation at the sea surface. pp 113

Krupchatnikoff V: Land surface model for use within climate model EXSib and ecological studies. pp 115

Kryvobok A, Palamarchuk L, Pirnach A: Feature of the cloud systems of the cyclones directed towards Ukraine from the Baltic Sea region. pp 116

Krzysikinski W: Investigation of the current field by means of shipborne ADCP during the field experiment in the Gulf of Gdansk. pp 117

Kusmierczyk-Michulec J, Rozwadowska A: Optical thickness of the Baltic aerosols. pp 119

Larsen S, Zilitinkevich S: A new EU Project SFINCS (Surface Fluxes in Climate System) - Aspects relative to the Baltic Sea Area. pp 120

Lass HU: Properties of internal waves in the Gotland Basin with relevance to diapycnical mixing. pp 121


Lehmann A: Baltic Sea modelling including coupled ice-ocean and ice-ocean-atmosphere models. pp 124

Lenderink G, Holtslag B: Evaluation of the ECHAM4 cloud and turbulence scheme for stratuscumulus. pp 133

Liljebladh B, Stigebrandt A: Observations of inertial period motions during the DIAMIX pilot survey. pp 135

Lindau R, Karstens U, Ruprecht E: Comparison of REMO’s total vapour content with observations. pp 136

Lloyd CR: LAPP An European Arctic Process Study on the borders of BALTEX. pp 138

Lobmeyr M, Ruhe C: Large scale hydrological modelling over the Elbe region. pp 140


Lundin LC, Halldin S, Nord T, Hjelm P: SINOP - the NOPEX database. pp 144


Magnusson M: Preliminary results from tower and radio-sound measurements performed in the northern part of the Baltic Sea during winter conditions. pp 146

Majewski W: 1997 Flood on Vistula River. pp 147


Melas D, Gottschalk L, Engeland K, Person T: Towards a coupled hydrological and meteorological mesoscale model Soil moisture initialisation. pp 149

Mengelkamp H-T, Kiely G, Moehrlen C: Simulation and observation of runoff on a local scale. pp 150
Michelson DB: Precipitation observation and analysis for the BALTEX main experiment. pp 152


Mikhnevich T, Zukovsky V: Long-standing forecast for spring snow-melt flood of the Western Dvina River. pp 155

Mölders N: Numerical experiments on the influence of surface cover changes upon the processes of the atmospheric water cycle in the southern Baltic Basin. pp 156

Müller G, Simmer C: Rain detection and determination of rain rates with the SSM/I radiometer over land by calibration with in situ measurements. pp 158


Mugnier-Pollet S, Askne J: Possibilities to determine wind over oceans using satellite synthetic aperture radar. pp 162

Olesen F-S, Goetttsche F-M, Schädlich S: Characterization of land-surfaces in the Baltic basin by modelling diurnal temperature waves extracted from METEOSAT-IR Data. pp 163

Omstedt A, Rutgersson A: Closing the energy and water cycles of the Baltic Sea. pp 164

Paplinska BE: Variation of wave-dependent drag coefficient during the real storm in the Baltic Sea. pp 166

Parfiniewicz JW: Diagnostic study of the severe storm over Poland on 28 March 1997. pp 168

Petelski T: Air-sea mass exchange in coastal zone. pp 170


Pirnach A: Numerical simulation of frontal cloud systems with taken account of detail microphysics and different mechanisms of cloud and precipitation formation. pp 174

Post P: About coupling of European circulation patterns and Estonian precipitation fields. pp 176


Raudsepp U: A numerical simulation of the annual cycle of the thermohaline fields in the Baltic Sea. pp 179

Refsgaard JC: Conceptual versus physically-based hydrological models: Which models to be used for BALTEX purposes? pp 180

Robakiewicz M: Measured and modelled hydrodynamics in Vistula estuary. pp 185


Rubel F, Hantel M, Hamelbeck F, Ungersböck M: Large-scale correction of rain gauge data. pp 193
Ruhe C, Lobmeyr M, Mengelkamp H-T, Warrach K: Application of a distributed hydrological model to the Odra drainage basin. pp 196
Ruprecht E: The BALTEX field experiments - An Overview. pp 198
Rutgersson A: Latent heat flux over the Baltic Sea (measured and modeled). pp 199
Rutgersson A: A comparison between measured and modeled sensible heat and momentum fluxes using a high resolution limited area model (HIRLAM). pp 200
Saloranta TM: Snow and snow ice in sea ice thermodynamic modeling. pp 202
Schrum C, Hübner U: Application of the Hamburg Shelf Ocean Model (HAMSOM) to the North Sea and the Baltic Sea while the PIDCAP period (August - October 1995). pp 203
Schrum C, Janssen F: On the influence of North Atlantic sea-level variations on the water exchange between the Baltic and the North Sea. pp 204
Siljamo N, Fortelius C: Benchmarking of surface fluxes from a weather prediction model with the aid of a Baltic Sea Model. pp 205
Stewart RE, Cao Z, Mackay MD, Crawford RW, Burford JE: On the processes leading to and affected by the variable climate of the Mackenzie River Basin. pp 208
Stigebrandt A: Dynamics of wind-forced diapycnal mixing in the stratified ocean - Presentation of DIAMIX, the vertical mixing experiment of BALTEX. pp 210
Sztobryn M, Stanislawczyk I: Seasonal forecast of maximum annual extent of sea ice cover in the Baltic Sea. pp 211
Tooming H, Kadaja J: Snow cover and surface albedo in Estonia. pp 212
Tsarev V: Simulation of bottom water flow down in the Baltic. pp 213
Twitchell PF: GEWEX objectives, achievements and future plans. pp 215
Unverzagt S: Modelling spatial distribution patterns of aperiodic oscillating oxygen conditions in the Baltic Sea. pp 217
Van Lammeren A, Feijt A, Konings J, van Meijgaard E: Analysing cloud observations from ground and satellite. pp 220
Van Meijgaard E, Konings J: Comparison of model simulated cloud parameters with observations from ground and satellite. pp 222
Vedom R: If to take the Baltic Sea as a lake.... pp 224
Vedom R: Estimation of water, energy and heat amount that is brought by Estonian rivers to the Baltic Sea in 1986-87. pp 226
Venäläinen A, Heikinheimo M, Grelle A: Comparison of latent and sensible heat fluxes over boreal lakes with fluxes over a forest. pp 228
Vinogradov Y: On peculiarities of the discharge hydrograph modelling for the basins with strong runoff regulation by reservoirs (Neva River basin case-study). pp 230

Vuglinsky V, Zhuravin SA: The estimation of river inflow into the Baltic Sea - provision with information, peculiarities of forming, variability. pp 231

Wergen W: Regional-scale atmospheric modelling, data assimilation and coupling to land surface processes for the BALTEX region. pp 232

Willén U: The lateral boundary conditions in a shallow-water model. pp 234

Windelband M, Podzun R, Jacob D: Water budget of the Baltic Sea Drainage Basin simulated with REMO. pp 236

Wisniewski B, Wolski T, Kowalewska-Kalkowska H: Short-term, seasonal and long-term changeability of sea level fluctuations in the Pomeranian Bay. pp 238


Yang X, Hansen Sass B: A regional reanalysis for PIDCAP using HIRLAM. pp 243


Zhang Y, Macke A, Raschke E: Sensibility of cirrus radiative forcing to cloud microphysical and optical properties. pp 247

Zhang Z, Haapala J, Leppäranta M, Stipa T, Sandven S: Sea ice drift in the Bay of Bothnia: Comparison of results from GPS drifters, ERS-2 and Radarsat SAR and a numerical model. pp 249

Ziverts A, Jauja I: Simulation of actual evapotranspiration and runoff from the Daugava river basin. pp 250

5.3 Third Study Conference on BALTEX, Åland, Finland, 2001

Page numbers refer to the Conference Proceedings.
Total number of presentations: 134

Andersson T, Peters G, Fischer B: Radar profiles of rain rate, reflectivity and fall speed of precipitation particles. pp 1

Andræ U, Fortelius C: Reanalysis of BRIDGE. An estimation of the water and heat budgets over the Baltic Sea drainage basin through variational data assimilation. pp 3

Andrejev O, Myrberg K, Alenius P, Lundberg PA: Mean circulation, exchange, retention and renewal time of water masses in the Gulf of Finland. pp 5

Ansper I, Fortelius C: Verification of HIRLAM marine wind forecasts in the Baltic. pp 7

Arpe K, Hagemann S: Trends in the hydrological cycle over the Baltex area, simulated and observed. pp 9

Batchvarova E, Gryning S-E: The height of the marine boundary layer over the Baltic Sea: Measurements and modelling. pp 11
Bennartz R, Thoss A, Dybbroe A, Michelson DB: Precipitation classification and analysis from remote sensing observations. pp 13
Berger FH, Halecker T: Surface radiant and energy flux densities inferred from satellite data for different BALTEX periods. pp 15
Bergström S, Graham LP, Gardelin M: Climate change impacts on the hydrology of the Baltic Basin. pp 17
Bergström S, Lindström G: A Swedish perspective on recent wet years in the Baltic basin. pp 19
Beyrich F, deBruin H, Lohse H, Richter SH, Weisensee U: Energy and water cycle components over a heterogeneous land surface: Status and results from LITFASS. pp 21
Bouma HR, Gradinarsky LP: Climate monitoring using GPS: Statistical analysis in space and time of the estimated amounts of water vapor from the Swedish and Finnish Permanent GPS Networks. pp 23
Bowling L, Lettenmaier D, Graham LP: Land-surface parameterizations in northern regions: preliminary results from the PILPS 2e model intercomparison. pp 25
Brümmer B, Müller G, Schröder D, Vihma T: Winter field campaigns BASIS/BALTIMOS over the Bay of Bothnia. pp 27
Butina M, Nikolushkina I: The flood events on the Daugava River. pp 29
Carlsson B: The BALTEX Hydrological Data Centre. pp 31
Chekan G, Stankevich A: Floods in the Pripyat transboundary river basins. pp 33
Chomka M, Petelski T: Aerosol emission by breaking waves. pp 37
 Clemens M, Bumke K: Precipitation fields over the Baltic Sea derived from ship rain gauge measurements on merchant ships. pp 41
Crewell S, Drusch M, Löhnert U, Simmer C, Van Lammeren A and the CLIWA-NET Project Team: Cloud observations from the ground-based CLIWA-NET Network I (CNN I) during BRIDGE EOP I. pp 43
Döscher R, Hansson U, Jones C, Meier HEM, Rutgersson A, Willén U: The development of the coupled ocean-atmosphere Model RCAO. pp 45
Dubicki A, Wozniak Z: The condition of water resources of the Odra basin and the tendencies of their changes. pp 49
Dybbroe A, Thoss A, Karlsson K-G: Mean cloudiness derived from satellite data over the Baltic Sea drainage basin during CLIWA-NET campaigns. pp 51
Elken J: Mixing and water exchange of the Baltic Sea. pp 53
Engelbart DAM, Steinhagen H: The Lindenberg SODAR/RASS Experiment LINEX-2000: Concept and first results. pp 55
Etling D, Ganske A: Comparison of radiosonde data and HIRLAM model results for the BALTEX-BASIS experiment. pp 57
Felzer B, Lawford R: The GEWEX American Prediction Project (GAPP). pp 61
Fortelius C: Intercomparison of precipitation from BALTRAD and HIRLAM. pp 63
Frisk T, Klavins M, Briede A, Kokorite I: Long-term changes of river discharge in Latvia. pp 65
Golenko N, Paka V, Kravtsov Y, Lavrova O, Litovchenko K, Trokhimovsky Y: Joint analysis of the satellite imagery and high resolution u-tow CTD transects in the Baltic Sea. pp 67
Golenko N, Beszczynska-Möller A: On hypothesis of inertial wave ray structure in region of the Stolpen Sill and the Stolpen Furrow. pp 69
Graham LP, Bringfelt B: Towards improved modelling of runoff in climate models. pp 71
Gryning S-E, Halldin S, Lindroth A: The NOPEX Project, challenges and some recent scientific results. pp 73
Guo-Larsén X, Smedman A-S: Roughness length over the Baltic Sea. pp 75
Gustafsson BG, Andersson HC: On the forcing of Baltic Sea water and salt exchange. pp 77
Hauschildt H, Martin T, Macke A: Cloud liquid water from combined AMSU and AVHRR measurements. pp 81
Hennemuth-Oberle B, Jacob D: One year measurements and simulation of evaporation and precipitation over the Baltic Sea during PEP in BALTEX. pp 83
Hollmann R, Gratzki A: The satellite derived surface radiation budget for BALTEX. pp 85
Huttunen M, Vehviläinen B: The Finnish watershed simulation system. pp 87
Hyvönen R, Tammin B, Kangas M: Comparison of the measured fluxes and the fluxes predicted by HIRLAM at Kopparnäs, Inkoo in Finland. pp 89
Jacob D: The climate of the BALTEX region – regional climate model results. pp 91
Janczak J: The effect of lakes on the water cycle and inflow of main biogens to the Baltic from the territory of Poland. pp 93
Jankowski A: Modelling of water circulation and thermohaline variability in the Southern Baltic by the Princeton Ocean Model. pp 95
Johansson C, Smedman A-S: Influence of the boundary layer height on the turbulent structure near the surface over the Baltic Sea. pp 97
Johnsen K-P: Water vapour within the BALTEX region obtained from groundbased and spaceborne sensors. pp 99
Jones C, Willén U, Michelson DB, Karlsson KG: The diurnal cycle of clouds and precipitation. pp 101
Kislov A, Kitaev L, Konstantinov I: Statistical structure of large-scale snow covers extent. pp 105
Kitaev L, Razuvaev V, Martuganov R: Spatial peculiarity of the climatic and snow cover parameters fields interannual changes in North Eurasia. pp 107
Koistinen J, Michelson DB: BALTEX radar products and their accuracies. pp 113
Kostjukov J, Treiliba M: Analysis of marine meteorological observations in Latvia. pp 117
Krasnov E, Sergejewa L, Kostina E: The Baltic sea-level events in the system of global change. pp 119
Krenke A, Kitaev L: Linkage of snow storage over the FSU territory with the NAO and SOI and its relationship with the Indian monsoon intensity. pp 121
Kryvobok A: Retrieval of aerosol properties over the Baltic Sea using AVHRR data. pp 123
Kuchar L, Glowicki B: Estimation of solar radiation for use in environmental science modeling. pp 125
Kücken M: Experience with climate simulations in the PIDCAP period with the regional model LM of the Deutscher Wetterdienst. pp 127
Kundzewicz ZW: Climate change impacts in the Baltic Sea basin: IPCC TAR perspective. pp 129
Lass HU, Prandke H, Liljebladh B: Dissipation in the Baltic proper during winter stratification. pp 131
Launiainen J, Bin C, Vihma T: Determination of the local turbulent air-ice fluxes in BASIS. pp 135
Launiainen J, Bin C, Vihma T: Northern Atlantic forcing reflections to sea ice and hydrological conditions in the northern seas. pp 135
Lehmann A, Zimmermann K: Meteorological Data Centre of BALTEX (BMDC). pp 141
Lenderink G, van Meijgaard E: Impacts of cloud and turbulence schemes on integrated water vapor: comparison between GPS measurements and model predictions. pp 143
Lindau R: Energy and water balance of the Baltic sea derived from merchant ship observations. pp 145
Lindkvist T, Lindow H: Using physical process models to force biogeochemical models. pp 147
Lorant V, McFarlane N, Laprise R: Thermal and hydrological studies lead over the Baltic region with the Canadian regional Climate Model. pp 149

Lundin M, Omstedt A: Modelling of snow influence on land fast ice thickness. pp 151


Mandefro MM: The effect and influence of the Northern cyclogenesis on the Ethiopian weather. pp 155

Martin L, Mätzler C: Using a 30GHz Radiometer and GPS to measure atmospheric liquid water. pp 157

Maslowski W, Walczowski W, Marble DC: The circulation of the Baltic Sea and its communication with the North Atlantic - a large scale and high-resolution modeling approach. pp 159

Meier HEM: Simulated water and heat cycles of the Baltic Sea using a 3D coupled ice-ocean model. pp 161

Meinke I, Rockel B, Hollmann R, Raschke E: On the representation of clouds in the regional atmospheric Model HRM. pp 163

Niros A, Vihma T, Launainen J: Characteristics of the atmospheric surface layer over the Baltic Sea. pp 165

Oesterle H: Selection of representative stations by means of a cluster analysis for the BAMAR region in the PIDCAP period. pp 167

Okulov O, Ohvril H, Kivi R: A simple parameterization of atmospheric precipitable water vapor in Tallinn, Estonia. pp 169


Omstedt A, Axell L, Rutgersson A: The role of the large gulfs of the Baltic Sea in the water and heat cycling. pp 173

Petelski T, Chomka M: Characteristic of marine aerosol over the beach. pp 175

Piechura J, Beszczynska-Möller A, Osinski R: DIAMIX: Pycnocline-slope interaction and mesoscale structures observed in Polish DIAMIX data. pp 177

Pirazzini R, Vihma T, Launainen J, Tisler P: HIRLAM verification over the Baltic Sea. pp 179


Raschke E, Meywerk J, Rockel B: Had the “project” BALTEX so far met its original objectives? pp 183

Richter K-G, Jacob D, Lenz C-J, Ebel M, Ludwig K: Regional climatic modelling to forecast extreme events for the Rhine basin. pp 185

Rimkus E: Prognosis of maximum snow water equivalent changes in Lithuania. pp 187

Roads J, Kanamitsu M, Stewart R: NCEP-DOE reanalysis global water and energy budgets for the GHP CSEs. pp 189

Rockel B, Karstens U: Water budget of cyclones and their contribution to the freshwater supply in the Baltic Sea catchment area: A case study. pp 191
Rödel R: Runoff changes by river regulation and North Atlantic Oscillation - do they influence the deep water conditions in the Baltic Sea? pp 193
Rutgersson A, Omstedt A, Räisänen J: Net precipitation over the Baltic Sea during present and future climate conditions. pp 197
Saue T, Kadaja J, Järvenoja S: Comparison of HIRLAM predicted soil moisture with observed data in Estonia. pp 199
Schröder D, Vihma T, Brümmer B, Kerber A: Broken sea ice and its effects on the parameterization of atmospheric heat fluxes as determined by aircraft measurements over the Gulf of Bothnia. pp 201
Sepp M, Jaagus J: Relationship between frequency of circulation patterns (according to classifications by Wangenheim-Girs and Hess-Brezowsky) and weather fluctuations in Europe. pp 203
Shkolnik I, Meleshko V, Govorkova V: The Baltic sea catchment climate patterns simulated by the AMIP II GCMs. pp 205
Sievers O: Radiative flux divergence profiles from MSG. pp 207
Sjöblom A, Smedman A-S: The turbulent kinetic energy budget over the Baltic Sea. pp 209
Skuratovich I, Korneev V: Monitoring of emergencies in the western Dvina transboundary river basin. pp 211
Starosta K: Forecast in Baltic coastal region in Poland in mesoscale model. pp 215
Stewart RE: An update on the Mackenzie GEWEX Study. pp 217
Stigebrandt A: DIAMIX – The experiment and some preliminary results. pp 219
Stipa T: Heat anomalies are driven by freshwater fluxes in the shivering Baltic. pp 221
Stoew B, Jarlemark P: Towards operational real-time estimation of total atmospheric delay. pp 223
Thompson D: What is the Arctic Oscillation, and why do we care? pp 225
Tomingas O: Atmospheric circulation indices for Estonia and their correlation with climatic fluctuations. pp 227
Tooming H, Keevallik S: Relationships among the ice extent on the Baltic Sea, the snowcover in surrounding areas, and the temperature. pp 229
Tooming H, Kadaja J: Snow cover depth and water equivalent in Estonia. pp 231
Tsarev V: Simulation of bottom water inflow in the central Baltic. pp 233
Van den Hurk B, Viterbo P: Test of a number of modifications to the ECMWF land surface scheme using the Torne/Kalix Pilps2E experiment. pp 235

Van Lammeren A: The BALTEX BRIDGE Cloud Liquid Water Network Project: CLIWA-NET. pp 239

Van Meijgaard E, Mathieu A: Analysis of model predicted liquid water path using observations from CLIWA-NET. pp 241

Van Meijgaard E, Andræ U, Rockel B: Model predicted cloud amount and cloud vertical structure compared with ground-based observations from the KNMI Cloud Detection System. pp 243

Vihma T, Brümmer B: Case studies of on-ice and off-ice air flows over the Baltic Sea. pp 245

Vuglinsky V, Zhuravin S: Long-term variations inflow to the Gulf of Finland from the Neva River basin and the Lake Ladoga role in its control. pp 247

Warrach K, Stieglitz M, Mengelkamp H-T: Analysis of two approaches of topographically controlled runoff simulation as in the land surface model SEWAB. pp 249


Wisniewski B, Kowalewska-Kalkowska H, Wolski T: Some results of studies on dynamics of variations of hydrological conditions in the Oder Estuary. pp 253


Wozniak SB, Zapadka T, Wozniak B: Comparison between various formulae for sea surface net infrared radiation flux and a new empirical formula for southern Baltic region. pp 257

Wozniak Z, Otop I: Regionalisation of extreme precipitation distribution on area of Poland. pp 259

Zhurbas V, Paka V: Generation of deep water cyclonic eddies in the Eastern Gotland Basin following major Baltic inflows: Numerical experiments. pp 261

Ziverts A, Jauja I, Plume A: Use of the hydrological modelling for the regulation of the complex water management systems. pp 263

5.4 Fourth Study Conference on BALTEX, Bornholm, Denmark, 2004

*Proceedings of the 4th Study Conference

Page numbers refer to the Conference Proceedings.
Total number of presentations: 106

Arheimer B: Modelling riverine nutrient input to the Baltic Sea and water quality measures in Sweden. pp 186
Arpe K, Hagemann S, Jacob D, Roeckner E: The realism of the ECHAM5.2 models to simulate the hydrological cycle in the Arctic and Baltic area. pp 153


Bange J, Spieß T, Zittel P: Improved method for the determination of turbulent surface fluxes using low-level flights and inverse modelling. pp 67

Bennartz R, Walther A: Precipitation type statistics in the Baltic region derived from three years of BALTEX radar data centre (BRDC) data. pp 9


Beyrich F, Adam WK: CEOP reference site data from Lindenberg: Be aware of terrain heterogeneity! pp 71


Brümmer B, Kirchgäßner A, Müller G: Characteristics of the atmospheric boundary layer over Baltic Sea ice. pp 43

Carlsson B: The BALTEX Hydrological Data Centre, BHDC. pp 73

Chekan R, Korneev V: Hydrological and hydrochemical surface water monitoring network in the Republic of Belarus. pp 75

Christensen JH: Prediction of regional scenarios and uncertainties for defining European climate change risks and effects PRUDENCE – An extract with a Northern European focus. pp 160

Christensen OB, Guldberg A, Jørgensen AT, Hohansen RM, Grum M, Linde J, Christensen JH: Extreme precipitation on a sub-daily scale simulated with an RCM: Present day and future climate. pp 169

Clemens M, Bumke K: Measured drop size distributions: Differences over land and sea. pp 48

Dößcher R, Meier HEM: Simulated sea surface temperature and sea ice in different climates of the Baltic. pp 162

Drusch M: Assimilation of new land surface data sets in weather prediction models. pp 11

Dubicki A: The drought of the year 2003 on the area of the Odra River catchment. pp 180

Eberlein L, Dietrich R, Neukamm M, Liebsch G: Sea-level monitoring at MARNET stations in the Southern Baltic Sea. pp 77


Graham LP: Using multiple RCM simulations to investigate climate change effects on river flow to the Baltic Sea. pp 164

Gräßl H: The Coordinated Enhanced Observing Period CEOP. pp 2

Gryning S-E, Batchvarova E: Is the critical Bulk Richardson Number constant? pp 46

Haase G, Landelius T: MESAN mesoscale analysis of total cloud cover. pp 50

Hagemann S, Jacob D: Predicted changes of discharge into the Baltic Sea under climate change conditions simulated by a multi-model ensemble. pp 166

Hasager CB, Christiansen MB: Coastal wind mapping from satellite SAR: possibilities and limitations. pp 21

Heinemann G, Kerschgens M: Comparison of methods for area-averaging surface energy fluxes over heterogeneous land surfaces using high-resolution nonhydrostatic simulations. pp 102

Hünerbein A, Preusker R, Fischer J: Broadband cloud albedo from MODIS. pp 25


Jacob D, Lorenz P, Lehmann A: Baltic Sea saltwater inflow 2003 – simulated with the coupled regional climate model system BALTIMOS. pp 145

Järvet A: Changes in Lake Võrtsjärv ice regime during the second half of the 20th century characterized by monthly zonal circulation index. pp 118


Jankowski A: On variability of the riverine waters in the Gulf of Gdansk – A model study. pp 92

Janssen F, Seifert T: Influence of atmospheric forcing on simulations with a general circulation model of the Baltic Sea. pp 85

Jensen J, Mudersbach C: Investigations of variations in water level times-series at the German Baltic Sea coastline. pp 138


Kadaja J: Water sub-model of a dynamic agro-ecosystem model and an empirical equation for evapotranspiration. pp. 184

Kalinin M: Climate and water resources of Belarus. pp 181


Kitaev L, Førland E, Rasuvaev V, Tveito OE, Krüger O: Distribution of snow cover over Northern Eurasia. pp 114
Kjellström E: Present-day and future precipitation in the Baltic region as simulated in regional climate models. pp 167


Klevanny K: Calculation of extreme water levels in the Eastern Gulf of Finland. pp 136

Koistinen J, Michelson DB: North European radar products and research for BALTEX. pp 8

Kononen K: BONUS for the Baltic Sea Science - Network of Funding Agencies. pp 4

Korneev V, Chekan R: Analysis of water quality changes and hydrodynamic model of nutrient loads in the Western Dvina/ Daugava River. pp 188

Koudelova P, Koike T: Introducing lateral subsurface flow in permafrost conditions in a distributed land surface scheme. pp 98

Kowalewska-Kalkowska H, Kowalewski M: Operational hydrodynamic model for forecasting of extreme hydrological conditions in the Oder Estuary. pp 94

Krysanova V, Hattermann F: Expected changes in water resources availability and water quality with respect to climate change in the Elbe River Basin. pp 174

Kuchar L: Generating synthetic daily weather data for modelling of environmental processes. pp 183

Lass H-U, Prandke H: Observations of turbulent kinetic energy dissipation in the surface mixed layer of the Baltic Sea under varying forcing. pp 63

Lehmann A, Krauss W: BASEWECS – Baltic Sea water and energy cycle. pp 84


Lindau R, Simmer C: A continental scale soil moisture retrieval algorithm, ist derivation and its application to model data. pp 12

Lorenz P, Jacob D: Comparison of simulations with the atmosphere-only regional climate model REMO against simulations with the fully coupled regional climate model system BALTIMOS. pp 146

Majewski W: Flood in Gdańsk in 2001, reasons, run, and mitigation measures. pp 178

Meier HEM, Kauker F: What causes stagnation of the Baltic Sea deepwater? pp 134

Meier HEM, Broman B, Kjellström E: Modelling sea level variability in different climates of the Baltic Sea. pp 170

Mengelkamp H-T and the EVA-GRIPS Team: EVA-GRIPS: Regional evaporation at grid and pixel scale over heterogeneous land surfaces. pp 35

Myrberg K, Andrejev O, Sjöberg B: A 10 years simulations of the Baltic Sea hydrography with special attention to the sea level fluctuations. pp 88

Novotny K, Liebsch G, Dietrich R, Lehmann A: Comparison of observed and modelled sea-level heights in order to validate and improve the oceanographic model. pp 150

Omstedt A, Chen Y, Wesslander K: A comparison between the ERA40 and the SMHI gridded meteorological data bases with applications to Baltic Sea modelling. pp 78
Omstedt A: The BALTEX/BRIDGE water budget and heat balances calculated from Baltic Sea modelling and available meteorological, hydrological and ocean data. pp. 86

Osinski R: Simulated dynamical processes in the south Baltic from a coupled ice-ocean model. pp 109

Overgaard JM, Butts B, Rosbjerg D: Significance of feedback in land-use change studies. pp 147

Pang S, Graßl H: High frequency single board doppler minisodar for rain, hail, snow, graupel and mixed phase precipitation measurements. pp 26


Peters G, Fischer B: Vertical structure and weather radar estimation of rain. pp 16

Pettersen C, Omstedt A, Mofjeld HO, Overland JE, Percival DB: Detection of climate change in the Baltic Sea area using matching pursuit. pp 133

Piechura J: Baltic Sea inflow events. pp 59

Preusker R, Schüller L, Fischer J: Cloud properties above the Baltic region. pp 10


Reuter M, Lorenz P, Fischer J: Observation of clouds and water vapour with satellites. pp 27

Richter K-G, Lorenz P, Ebel M, Jacob D: Analysis of the water cycle for the BALTEX basin with an integrated atmospheric hydrological ocean model. pp 154

Rimkus E, Rimkuviene J: Meteorological peculiarities of maximum rainfall-induced runoff formation in Lithuania. pp 57

Rocks J: Activities of the GEWEX Hydrometeorology Panel GHP. pp 1

Rockel B, Roads J, Meinke I: ICTS (Inter-CSE Transferability Study): An application of CEOP data. pp 97

Rubel F, Skomorowski P, Brugger K: A new 3-hourly precipitation dataset for NWP model verification and data assimilation studies. pp 52

Rudeva I, Gulev S, Zolina O, Ruprecht E: Analysis of the role of atmospheric cyclones in the moisture transport from the Atlantic Ocean to Europe and European precipitation. pp 55

Rummukainen M: Recent development of a regional air/land surface/sea/ice coupling modeling system, “the RCAO Experience”. pp 148

Rutgersson A, Smedman A-S, Carlsson B: Sensitivity in calculation of turbulent fluxes over sea to the state of the surface waves. pp 44

Rutgersson A, Omstedt A, Nilsson G: Evaluation of atmosphere-ocean heat fluxes over the Baltic Sea using a number of gridded meteorological databases. pp 80

Saramak A: The impacts of synoptic situations on extreme precipitation in the Raba Valley (Gaik-Brzezowa). pp 65

Schüler T, Posfay A, Krueger E, Hein GW, Jacob D: GPS-based integrated water vapour estimation on static and moving platforms for verification of regional climate model REMO. pp 28

Smedman A-S, Högström U: The marine boundary layer – new findings from the öster-garnsholm air-sea interaction site in the Baltic Sea. pp 41

Smith GL, Wielicki BA, Stackhouse PW: Ceres and surface radiation budget data for BALTEX. pp 19

Streckenbach B, Reimer E: Validation of boundary layer parameters and extension of boundary conditions of the climate model REMO – estimation of leaf area index from NOAA-AVHRR-data. pp 30

Teral H, Ohvri H, Laulainen N: Variability of Ångström coefficients during summer in Estonia. pp 82

Tittebrand A, Heret C, Ketzer B, Berger FH: Determination and comparison of evaporanspiration with remote sensing and numerical modelling in the LITFASS area. pp 31


Tsarev V: Simulation of bottom water inflow in the Bornholm Basin. pp 110


van Meijgaard E, Crewell S, Feijt A, Simmer C: Review of major CLIWA-NET results. pp 6

van Meijgaard E, Crewell S, Löhnert U: Analysis of model predicted liquid water path and liquid water vertical distribution using observations from CLIWA-NET. pp 14

van Ulden A: Innterannual variability and trends in the central Netherlands temperature over the past two centuries. pp 126

Vihma T: Atypical coastal gradients in the wind speed and air humidity over the Baltic Sea. pp 90

Volchak A: Calculation of the annual discharge of the Neman River in Byelorussia. pp 141

Vuglinsky V, Gronskaya T: Assessment of ecological situation in small streams and lakes in the Neva basin under anthropogenic impact of St.Petersburg. pp 176

Walther A, Bennartz R, Jacob D, Fischer J: Classification of precipitation type and its diurnal cycle in REMO simulation and in observations. pp 156


Wetterhall F, Halldin S, Xu C-Y: Statistical precipitation downscaling in central Sweden. Inter-comparison of different approaches. pp 120

Widén E, Xu C-Y, Halldin S: Continental-scale water-balance modelling of the Baltic and other large catchments. pp 95

Willén U: Comparison of model and cloud radar derived cloud vertical structure and overlap for the BALTEX BRIDGE campaign. pp 18

Woldt M, Reimer E: Validation of boundary layer parameters and extension of boundary conditions of climate model REMO – snow cover. pp 107
5.5 Fifth Study Conference on BALTEX, Saaremaa, Estonia, 2007

*Proceedings of the 5th Study Conference

Page numbers refer to the Conference Proceedings.
Total number of presentations: 122


Apsīte E, Širiņa L, Bakute A: Climate Change Impacts on the Total Annual Rivers’ Runoff Distribution in Latvia. pp 174


Aulinger A, Matthias V, Quante M: Long-Range Transport of Polycyclic Aromatic Hydrocarbons over Europe and their Deposition into the Baltic Sea. pp 93

Axe P, Szaron J, Falkenroth E, Fyrberg L: A Data Model for Hydrographic Data. pp 131

Bärring L: RCM-Downscaled Climate Indices Requested by the Swedish Government Climate and Vulnerability Inquiry Committee: An Overview and some Remarks. pp 65

Belous O, Gulbinskas S, Mileriene R: Klaipeda Sea Deepwater Port Development Issue. pp 83

Beyrich F, Adam W, Bosveld F, Poutiainen J, Savunen T: The Contribution of the BALTEX In-situ Reference Sites to CEOP. pp 10

Bhend J, von Storch H: Towards the Detection of a Human Induced Climate Change in Northern Europe. pp 29

Brandt N, Fidler J, Larsson Å: Education in Sustainable Conflict Resolution - Experiences and Objectives of the Coastal Zone Management Project. pp 192

Broman B: Future Wave Climate of the Baltic Sea - Projections with Winds from the Regional Climate Model RCA3 of the Rossby Centre. pp 62


Christensen O-B: Precipitation Extremes under Climate Change in the Baltic Area as Simulated with a Regional Climate Model. pp 56
Claveri L, Vihma T, Savijärvi H, Tammelin B: Observations and Modeling of a Cold-Air Outbreak over the Gulf of Finland. pp 17
Danilovich I, Chekan R: Longstanding Fluctuations of the River Streamflow in Belarus Part of Baltic Sea Basin According to Atmospheric Circulation. pp 152
Draveniece A: Air Mass Seasonality and Winter Season Cold Air Masses in Latvia. pp 35
Eilola K, Meier HEM: Impact of Climate Change on the Baltic Sea Ecosystem. pp 67
Eriksson C, Hansson D, Omstedt A, Chen D: Reconstructing the Past 500 Years of River Runoff to the Baltic Sea. pp 154
Fidler J, Wennersten R, Brandt N, Larsson Å: COASTMAN – Coastal Zone Management. pp 81
Fortuniak K, Bärring L: Comparison of Selected Storminess Indices Based on Point Pressure Measurements. pp 155
Graham LP: Transient Simulations of Future Runoff to the Baltic Sea for the 21st Century. pp 54
Gryning S-E, Soegaard H, Batchvarova E: Upscaling of CO2 Fluxes. pp 104
Gustafsson E, Omstedt A: Stagnation Periods and Deepwater Inflow Dynamics: An Analysis of Measurements in the Baltic Sea During the 20th Century. pp 40
Haapala J, Haas C: Validation of the Modelled Sea-Ice Thickness with the HEM-Data. pp 134
Hansson D, Omstedt A: Modelling the Baltic Sea Ocean Climate on Centennial Time Scale; Temperature and Sea Ice. pp 37
Iital A, Vilta K, Loigu E, Roosalu K: Coastal Zone Management in Haapsalu Bay Area, Estonia. pp 85
Jaagus J: Precipitation Pattern in the Baltic Sea Drainage Basin and its Dependence on Large-Scale Atmospheric Circulation. pp 31
Jacob D, Lorenz P: Decadal Variability of the Hydrological Cycle in the Baltic Sea Region. pp 58

Jacob D, Budich R, Claussen M, Giorgetta M: COSMOS - Community Earth System Models. pp 118


Kaipainen H, Bilaletdin Ā, Frisk T, Paananen A: Methods for Assessing the Impact of Climate Change on Nutrient Flows from Catchments. pp 69

Kalinin M, Volchak A: Transformation of the Surface Water Quality in the Baltic Sea Rivers on Belarus Territory. pp 197

Kamarouskaya A, Kulyashova I: Climate Fluctuations in the Belarus Part of the Baltic Sea Basin. pp 159

Karstens U: Simulations of Atmospheric CO2 Concentration over Europe. pp 102

Keevallik S, Soomere T: Examination of Wind Data from Automatic Weather Stations. pp 121


Kitaev L, Heino R: Tendencies of Seasonal Variability of Snow Storage in Conditions of Regional Climate Changes over Northern Europe. pp 160

Kjellström E, Lind P: Changes in the Water and Energy Budgets in the BALTEX Area in Future Warmer Climates as Simulated in a Regional Climate Model. pp 52

Klavins M, Rodinov V: River Discharge Regime in Latvia in Respect to Climate Variability. pp 162


Kokorite I, Klavins M, Rodinov V: Changes of Flows of Major Dissolved Substances from Territory of Latvia. pp 199

Koltsova T, Belakova J: Storm Surges in the South Coast of the Gulf of Riga. pp 182


Kowalewska-Kalkowska H, Wisniewski B: Storm Surges in the Odra Mouth Area in the 1997-2006 Decade. pp 183
Krasnov E: Natural Water Quality Testing in Kaliningrad Area. pp 201
Kundzewicz Z: Adaptation to Climate Change in Water Management – Baltic Sea Basin. pp 72
Laanemets L, Uiboupin R: Upwelling Parameters Derived from Satellite Sea Surface Temperature Data in the Gulf of Finland. pp 137
Leal W, Mannke F: Towards Policies and Adaptation Strategies to Climate Change in the Baltic Sea Region – The ASTRA Project - pp 48
Leal W, Holda A, Krahn D: The Conflict in the Kadetrinne: The Need for Integrative Approaches to Sustainable Coastal Zone Management in the Baltic Sea. pp 87
Lehmann A, Hietala R: The Roles of Brine Release and Sea Ice Drift for Winter Mixing and Sea Ice Formation in the Northern Baltic Sea. pp 139
Lempio G, Bumke K: Measurements of Solid Precipitation with an Optical Disdrometer. pp 123
Leppänen J-M: Climate Change Impact on the Baltic Sea Ecosystem: The HELCOM View on Future Co-Operation with BALTEX. pp 63
Lind P, Kjellström E: Investigation of the Water and Energy Budgets in the BALTEX Area, as Simulated in a Regional Climate Model. pp 8
Lorenz P, Jacob D, Lehmann A: Comparison of Air-Sea Fluxes in the Uncoupled and Coupled BALTIMOS System. pp 12
Madsen K, Højerslev NK: Long-Term Temperature, Salinity, and Sea Level Records from the Baltic Sea Entrance. pp 33
Meier HEM: Modeling the Pathways and Ages of Inflowing Salt- and Freshwater in the Baltic Sea. pp 23
Michelson DB, Gjertsen U, Koistinen J, Schultz DM: Extreme Marine Snowfall as seen by BALTRAD. pp 125
Morkunaite R, Bukantis A, Zilinaskas G: The Dynamics and Protection of the Sea Coasts and Dunes in Lithuania as a Result of Extreme Climate Events (according to ASTRA Project Activities) pp 191
Myrberg K, Soomere T, Leppäranta M, Nekrasov A: Recent advances in the physical oceanography of the Gulf of Finland. pp 19
Nilsson C, de Jong R, Bärring L: Past Storm Climate in Southern Sweden: A Comparison of Modelled Data with Observational Data, a NW/SE Storm Index and Aeolian Proxy Data. pp 164
Nordli Ø: Multi-centurial Temperature Reconstructions by Farmers’ Diaries. pp 166
Ojaveer E, Kalejs M: Justification of the First Long-Term Prediction on the Main Environmental Factors and Fish Stocks in the Baltic Estimated after 20 Years. pp 204
Pacyna JM: Common Research Interests for LOICZ and BALTEX in the Baltic Sea Area. pp 4
Pavelson J, Huttula T, Lips U, Myrberg K: On the Quasi-Steady Current along the Northern Slope of the Gulf of Finland. pp 142
Piechura J: Recent Warming of the Arctic Ocean and Possible Consequences for Climate. pp 173
Pirazzini R, Vihma T, Granskog M, Cheng B: Surface Radiation Budget and Cloud Radiative Forcing on Sea Ice during the Spring Snowmelt Period in the Baltic Sea. pp 144
Post P: Relationships between Extreme Daily Rainfall in Estonia and Atmospheric Circulation. pp 127
Reid PC: Climate Change Impacts on the Ecosystems of the North Sea and Relevance to the Baltic: Evidence for Past Variability and Future Prognosis. pp 92
Rummukainen M, Hewitt C, Jacob D: The ENSEMBLES and the BALTEX Projects. pp 50
Ryabinin V: The World Climate Research Programme: Achievements and Future. pp 1
Saue T, Kadaja J: Simulated Crop Yield – An Indicator of Climate Variability. pp 178
Scheibe R: Perpetrator, Victim and Free-Rider – the Ambivalent Role of Tourism and Recreation for the Climate Change. pp 71
Schneider B: Continuous CO2, O2 and N2 Measurements on a Cargo Ship: An Efficient Tool to Study the Baltic Sea Carbon Cycle. pp 205
Schneider B: The Baltic Sea Carbon Cycle: A Challenge for Research within BALTEX. pp 100
Sepp M: Changes in Frequency and Mean SLP of Cyclones Formed over the Baltic Sea Region. pp 167
Smith B: Climate Change and Land Ecosystems of the Baltic Sea Basin – Knowledge Gaps and Research Priorities. pp 64
Soomere T: Trends, Long-Term Variations and Extremes of the Northern Baltic Proper Wave Fields. pp 41
Stonevicius E: Effect of Hydrological Regime and Nutrient Loadings on Lake Zuvintas Eutrophication. pp 206
Tedesco L, Vichi M, Haapala J, Stipa T: Set Up of a Thermodynamic Model of Snow, Snow Ice and Sea Ice Evolution to be Coupled with a Biogeochemical Flux Model. pp 112
Tsarev V, Sharatunova M: Some Features of Bottom Water Spreading into the Baltic Sea. pp 148
Volchak A, Parfomuk S: Variations in the West Dvina River Annual Runoff. pp 171
Volchek A, Kuzavko Y, Kostiuk D, Volchek AN: A Distributed Automated System of Flood Registration and Prediction. pp 189
von Storch H, Bhend J: How do we know that Human Influence is Changing the Climate in the Baltic Sea Region? pp 27
Vuglinsky V: Current and Expected Changes in River Ice Regimes within the Russian Part of Baltic Drainage Basin. pp 43
Wibig J: Water Vapour Transport in Europe. pp 129
Zorita E, Wagner S, Gonzalez-Rouco F, von Storch H: Climate Simulations of the Past Millennium with the Global Model ECHO-G: Results for the Baltex Area. pp 46

Zülicke C: Model for the Air-Sea Gas Exchange through Film-Covered Water. pp 110

Zīlniece I, Valdmane T, Kraule I: Participation of Ventspils City Council in the Project „Coastal Zone Management in the Baltic Sea Region / COASTMAN”. pp 194

5.6 Sixth Study Conference on BALTEX, Międzyzdroje, Island of Wolin, Poland, 14 to 18 June 2010

*Proceedings of the 6th Study Conference
Page numbers refer to the Conference Proceedings.
Total number of presentations: 97

Andersson HC. and the ECOSUPPORT consortium: ECOSUPPORT (Advanced tool for scenarios of the Baltic Sea ECOsystem to SUPPORT decision making): Project approach and selected results. pp 5

Andrejev O, Sokolov A, Soomere T, Myrberg K, Viikmäe B: Using multi-year circulation simulations to identify areas of reduced risk for marine transport. Application to the Gulf of Finland. pp 135

Aulinger A, Matthias V, Quante M: Atmospheric deposition of particulate nitrogen, sulphur and benzo(a)pyrene into the Baltic Sea between 1995 and 2005 considering the influence of ship emissions. pp 89

Bergström S: A northern European perspective on adaptation to climate change. pp 167

Bhend J, von Storch H: Detection and attribution of an anthropogenic effect on temperature and precipitation changes in the Baltic Sea catchment. pp 7

Bildziuh A, Trafimova L, Danilovich I, Chekan R: Impact of recent changes of snow cover and climate on river runoff in the Baltic Sea basin of the East European plain. pp 9

Bogdanova EG, Iljin B, Gavriloa S-Y, Groisman P: Precipitation changes in the Russian sector of the Baltic Sea basin after accounting for comprehensive biases in their measurements. pp 10

Bray D: The perceptions of Baltic Sea region climate scientists pertaining to climate change in the Baltic Sea region: Results of the survey SurBACC 2010. pp 169

Bulygina O, Groisman P, Razuvaev V: Changes in snow cover characteristics over northwestern Russia. pp 11

Carlsson B, Rutgersson A: Depositions of acidifying and neutralizing compounds over the Baltic Sea drainage basin between 1960 and 2006. pp. 91


Dailidienė I, Baudler H, Chubarenko B: Long term water level and surface temperature changes in the lagoons of the South and East Baltic. pp 14
Danilovich I, Chekan R: Frequencies of spring floods in the Belarus part of the Baltic Sea basin according to the atmospheric circulation. pp 137

Delpeche N, Soomere T, Viikmäe B: Towards a quantification of areas of high and low risk of pollution in the Gulf of Finland, with the application to ecologically sensitive areas. pp 138

Donnelly C, Strömqvist J, Dahné J, Arheimer B: Evaluating the combined effects of nutrient load reduction and climate scenarios for the Baltic Sea catchment. pp 15

Draveniece A: Wave conditions along the Latvian coast of the Baltic Proper derived from visual wave observations. pp 57

Dzierzbicka-Glowacka L, Žmijewska IM, Jakacki J, Lemieszek A, Mudrak S: Development of the marine planktonic copepod Acartia spp in the southern Baltic Sea. pp 93


Ekman M: Climate variability and change detected from Baltic Sea level data since 1774: An overview. pp. 17

Enno S-E: Spatio-temporal changes in thunderstorm frequency in Estonia. pp 140


Golenko M, Golenko N: Spatial variability of thermohaline and dynamical parameters during wind-driven coastal upwelling in the south-eastern Baltic Sea. pp 58

Grimvall A, Omstedt A, Pertillä M: Can observational pH data confirm the predicted acidification of Baltic Sea surface water? pp 97

Groisman P: NEESPI current status and its objectives within north-western Eurasia. pp 3

Gurova E, Ivanov A: Combining MODIS and SAR images in research of water dynamics in the south-eastern Baltic Sea. pp 59


Hongisto M: Variability of the marine boundary layer parameters over the Baltic Sea sub-basins in HIRLAM parameterizations since 1993 and their impact on the nitrogen deposition. pp 99

Hünicke B: What do we know about sea-level change in the Baltic Sea? pp 20


Janecki M, Dzierzbicka-Glowacka L, Jakacki J: The distribution of phytoplankton biomass in the Baltic Sea simulated by a three-dimensional model. pp 101


Kalbarczyk E, Kalbarczyk R: Assessment of precipitation conditions in the Polish zone of the southern Baltic coastland. pp 63
Keevallik S: Wind parameters in the centre of the Gulf of Finland from measurements and HIRLAM outputs. pp 65
Kjellström E, Nikulin G, Bärring L: Climate change in the Baltic Sea area in an ensemble of regional climate model simulations. pp 24
Kostecki R, Janczak-Kostecka B: Environmental changes in the Pomeranian Bay in the Holocene, based of diatomological and geochemical studies. pp 26
Kowalewska-Kalkowska H: Extreme storm surge events in the Pomeranian Bay and their impact on water levels in the Lower Odra River. pp 144
Kržič A, Tošić I: Drought analysis of the Mediterranean region using the z-score. pp 145
Kržič A, Tošić I, Rajković B, Djurdjević V: Drought analysis of the Mediterranean region according to the A2 scenario using the Standard Precipitation Index. pp 146
Kuliński K, Pempkowiak J: Carbon budget of the Baltic Sea. pp 102
Kuliński K, Szczepańska A, Pempkowiak J: Determination of carbon return flux from the Baltic bottom sediments. pp 103
Kundzewicz Z, Przybylak R: Poland, a Baltic country: Climate, waters, people. pp 1
Kundzewicz Z, Lorenz H: Categorical temperature data as indicators of warming in Poland. pp 27
Lemieszek A, Dzierzbicka-Głowacka L, Żmijewska IM: Impact of climate change on the development of Temora longicornis in the southern Baltic Sea. pp 104
Lemieszek A, Dzierzbicka-Głowacka L, Żmijewska IM: Modelling the egg production of Temora longicornis. pp 106
Lorenz P, Meraner K, Jacob D: Long term trend and decadal variability of the hydrological cycle in the Baltic Sea region as modelled by the ENSEMBLES regional climate models. pp 30
Mändla K, Sepp M, Jaagus J: Long-term changes in frequency and duration of southern cyclones influencing climate variability in Estonia. pp 33
Massel SR: Circulation of groundwater below a rippled sea bed. pp 150
Massel SR: Tsunami waves in coastal zones due to an asteroid impact. pp 152
Meier HEM and ECOSUPPORT collaborators: Transient scenario simulations for the Baltic Sea for 1961-2099. pp 35
Michelson DB: An advanced weather radar network for the Baltic Sea Region – BALTRAD. Pp 67


Nikulin G, Kjellström E, Jones C: Uncertainties in the projected climate changes of wind extremes over the Baltic region. pp 38


Osadczuk A, Skowronek A, Witkowski A, Maciąg Ł: Importance of the Szczecin Lagoon for the Odra River mouth area in the light of geochemical studies in the Polish part of the basin. pp 110

Ostrowska M, Stoń-Egiert J, Łotocka M, Majchrowski R: Do the ratio of pigments and carbon content in main groups of algal classes depend on trophicity? Preliminary results. pp 113


Pastuszak M, Pawlikowski K: Response of Polish rivers (Vistula, Oder) to reduced pressure from point sources and agriculture during the transition period (1988-2008). pp 115

Piechura J, Osiński R: Baltic inflows – Extreme oceanographic events. pp 154


Podgorny KA: Use of a spatially-irregular simulation model to study nitrogen and phosphorus transformation processes and dynamics of dissolved oxygen in the ecosystem of the Neva Bay, Gulf of Finland. pp 118


Räämet A, Soomere T: A reliability study of wave climate modelling in the Baltic Sea. pp 71

Raub T, Cesko T, Getzlaff K, Lehmann A, Jacob D: Comparison of the sea surface temperatures and sea ice concentration from ERA-Interim and BSH. pp 42

Rimkus E, Kažys J, Bukantis A: Recent dynamics and prediction of heavy precipitation events in Lithuania. pp 156

Rockel B: Energy and water budget over the BALTEX domain from a suite of atmospheric regional climate models (present and future). pp 73

Ruoho-Airola T, Parviainen M, Tarvainen V: Database of published nitrogen concentrations in air and precipitation around the Baltic Sea 1850-1960. pp 111


Saue T, Kadaja J: Meteorologically possible potato yields for Estonia, derived from climate change scenarios. pp 171

Sazonova T, Bolondinsky V, Pridacha V: Ecological and hydrological field studies in southern Karelia within the easternmost part of the Baltic Sea Basin: The Onego/Ladoga lakes system. pp 120

Schenk F, Zorita E: New dataset of highly resolved atmospheric forcing fields for 1850-2009. pp 76

Schneider B: Phosphate release at the sediment surface during anoxic conditions: Myths, mysteries and facts. pp 122


Sepp M, Saue T: Connections between the atmospheric circulation type and the modelled potato crop yield in Estonia. pp 173

Služenikina J, Männik A: A study of ASCAT wind measurements near the coastal region of Estonia. pp 78

Söhl D, Pavlik D, Bernhofer C: Sensitivity of the CCLM to changing land use in Eastern Europe. pp. 80

Sepp, M.: On regime shift in the general atmospheric circulation over the Baltic Sea region in winter. pp 46

Speranskaya N: Changes in some elements of the water cycle in the Baltic Sea areas of the former Soviet Union. pp 48

Stoń-Egiert J: Long term changes in phytoplankton pigments characteristics in Southern Baltic region. pp 124

Szymczycha B, Kotwicki L, Pempkowiak J: Submarine groundwater discharge to the Gulf of Gdańsk. pp 158


Terekhanova T, Helm B, Tränckner J: Modelling nutrient balance for the Western Bug catchment under global change and data scarce conditions. pp 128

Väli G, Zhurbas V, Laanemets J, Elken J: Simulation of nutrient transport from different depths during an upwelling event in the Gulf of Finland. pp 130

Veljovic K, Rajković B, Mesinger F: Large scale skill in regional climate modelling and the lateral boundary condition scheme: 32-day ensemble experiments. pp 82

Viikmäe B, Soomere T, Delpeche N, Meier HEM, Döös K: Utilizing lagrangian trajectories for reducing environmental risks. pp 159

Volchek A, Meshik O, Luksha V: Warm season degree-days in south-western Belarus and their dynamics. pp 176

Volchek A, Stefanenko J, Parfomuk S, Luksha V, Volchek A, Natarova O, Shelest T: Changes of mean and peak river runoff in Belarus during the 20th century. pp 161

Von Storch H, Meinke I: Climate services – Concepts and examples. pp 175

Vuglinsky V, Gronskaya T, Lemeshko N: A methodological approach for the assessment of the ecological status of urban water bodies (Saint-Petersburg as a case study). pp 132
Wibig J: Droughts in Poland, recent variability and future predictions. pp 163
Wiśniewski B, Wolski T: Physical characteristics of extreme storm surges and falls on the Polish coast. pp 165
Zalewski M: “Ecohydrological dams” for compensation of climate change and reduction of fluxes nutrients and pollutants from the river basins to Baltic Sea. pp 178
Zalewski M, Witek Z, Wielgat-Rychert M: Modelling biogeochemical fluxes in the Vistula Lagoon. pp 133
Zhou Q, Arnbjerg-Nielsen K, Mikkelsen P-S, Halsnæs K, Balslev Nielsen S: Design practice for urban drainage, incorporating climate change impacts. pp 180
Zhuravlev S, Vinogradov Y: Hydrological modelling of the lake flow using “Hydrograph” model. pp 166
Zorita E, Hünicke B: Is the Baltic sea-level change accelerating? pp 52
Zülicke C: Air-sea interaction model for momentum and mass in the presence of wind waves. pp 84
Zülicke C: Mesoscale patterns of wind and precipitation due to inertia-gravity waves in model simulations and observational networks. pp 86

**5.7 Seventh Study Conference on BALTEX, Borgholm, Island of Öland, Sweden, 10 to 14 June 2013**

*Proceedings of the 7th Study Conference  
Page numbers refer to the Conference Proceedings.  
Total number of presentations: 110*

Barkhordarian A, von Storch H: Consistency of recently observed trends over the Baltic Sea basin with climate change projections. pp 47
Baubiniene A, Morkūnaite R: Dynamics of Baltic Sea environment under the influence of climate changes (A case study of the most important Lithuanian coastal summer resorts). pp 48
Baykova IM, Ivanova NF, Marich VL: Estimations of social and economic consequences of modern climate change in St. Petersburg and the Leningrad region. pp 49
Bengtsson L: Contributions of BALTEX towards the understanding of the Earth’s water and energy cycle. pp 9
Berbery H, Boulanger J-P, Gentile E, Schlindwein S: The La Plata Basin RHP: Rethinking the design of adaptation strategies. pp 187
Bergström S: From BALTEX research to adaptation to climate change – A Swedish perspective. pp 105
Bierstedt S, von Storch H, Zorita E, Hünicke B: The variability of wind speed and wind direction of mean and extreme winds over the Baltic Sea. pp 50

Borzenkova I, Zorita E, Borisova O, Kalnina L, Kisieliene D, Koff T, Kuznetsov D, Lemdahl G, Sapelko T, Stancikaite M, Subetto D: Climate variability in the Baltic Sea Basin over the last 12,000 calendar years: Lessons from the past for the future. pp 52

Broman B, Klein T, Frankenberg B, Svensson J, Bennet C: ECDS, an infrastructure for Swedish researchers in climate and environment and a source to find interesting data sets. pp 54

Bulskaya I, Volchek A: Urban snow and snowmelt runoff inorganic pollution and its impact on the receiving river in the city of Brest, Belarus. pp 129

Christensen OB, Kjellström E: Variations in projections of atmospheric climate change for the Baltic Sea region. pp 55

Degirmendžić J: Different tracks of Mediterranean cyclones towards Europe and their associated precipitation fields in Poland. pp 10

Dieterich C, Väli G, Schimanke S, Meier HEM: Projected changes in Baltic Sea upwelling from an ensemble of RCP scenario simulations. pp 57

Donnelly C, Arheimer B: The impacts of climate change and nutrient reduction measures on river discharge and nutrient fluxes to the Baltic Sea. pp 107

Dreier N, Schlamkow C, Fröhle P: The influence of regional climate change on the local wave climate and the longshore sediment transport at the German Baltic Sea Coast. pp 59

Druzhinina O, Kublitsky Y, Subetto D, Syryh L: Towards a reconstruction of palaeoclimate: Research in the southeast Baltic Sea region during 2011-2013. pp 61

Durkin M: Challenges for the Baltic Sea region from the HELCOM perspective. pp 4

Edman M, Anderson LG: Influence of DOM on the CO2 pressure in the Gulf of Bothnia surface water. pp 130

Elgered G: Ground-based GPS networks for remote sensing of the atmospheric water vapour content: A review. pp 12


Fortuniak K, Pawlak W, Siedlecki M: Long term measurements of the energy balance at urban area in Łódź, central Poland. pp 16


Friedland R, Neumann T, Schernewski G: Simulations of eutrophication scenarios using the current and an improved version of ERGOM. pp 133

Groisman P, Lawford R: The Northern Eurasia Earth Science Partnership Initiative (NEESPI) in the past two years. pp 188

Groll N, Hünicke B, Weisse R: Baltic Sea wave conditions under climate change scenarios. pp 62


Hagemann HTM, Rockel B, Geyer B: How a two-way online coupled model system impacts regional climate simulations. pp 63

Hongisto M: Impact of the emissions of the international sea traffic on the airborne deposition to the Baltic Sea and concentrations at the coastline. pp 136


Jaagus J, Briede A, Rinkus E: Variability and trends in daily minimum and maximum temperatures and in diurnal temperature range in Lithuania, Latvia and Estonia. pp 65

Jakobson E, Keernik H, Luhamaa A, Ohvril H: Diurnal variability of water vapour in the Baltic Sea region according to NCEP-CFSR and BaltAn65 reanalyses. pp 67


Keernik H, Jakobson E, Ohvril H: Trends in tropospheric humidity and temperature over Estonia and Finland derived from radiosonde measurements. pp 69

Keevallik S: Bringing together the East and the West: Joining ideas, people, datasets. pp 3


Kjellström E, Nikulin G, Samuelsson P, Jones C: A new generation of regional climate model scenarios for the Baltic Sea area. pp 71

Krasnov EV, Barinova GM, Gaeva DV: Regional aspects of climate in the southeast Baltic region in connection with global changes. pp 73

Krasnov EV, Barinova GM, Romanchuk AY: Biotic responses to the post-glacial climate change in the Baltic Sea area. pp 142

Krüger O: What do we know about the human impact on aerosol cloud-mediated climate processes in the Baltic Region? pp 23

Kuchar L, Iwanski S, Jelonek L, Szalinska W: Simulation of annual maximum runoff in river catchment with spatial weather generator and climate change scenarios. pp 109

Kulinski K, Schneider B, Hammer K, Schulz-Bull D: The role of the terrestrial dissolved organic matter mineralization for the acid-base system of the Baltic Sea. pp 144

Kundzewicz ZW: Improved tools for river flood preparedness under a changing risk in Poland. pp 111

Labuz TA: Causes and rates for erosion caused by the January 2012 storm surge on the accumulative Polish dune coast. pp 112
Langner J, Engardt M: Simulations of future sulphur and nitrogen deposition over the Baltic Sea drainage basin using meteorological data from three regional climate projections. pp 146

Legutko Ł, Plygawko A, Ostojski M: An emergency communication system against hydro-sphere and atmosphere threats for the Baltic Sea and the Polish coastline: The role of new media in warning of extreme hydrological and marine hazards. pp 114

Lehmann A, Gurova E, Ivanov A: Upwelling dynamics in the Baltic Sea studied by a combined SAR/infrared satellite data and circulation model analysis. pp 25


Luhamaa A, Zirk M, Post P: Reanalysis vs. regional climate model for the Baltic Sea region. pp 77


Meier HEM: A new science and outreach programme for the Baltic Sea region. pp 6

Meier HEM and ECOSUPPORT co-workers: Advanced modeling tool for scenarios of the Baltic Sea ECOsystem to SUPPORT decision making (ECOSUPPORT, 2009-2011) pp 175

Melnik V, Komarovskaya E: Features of climate change on the territory of the Republic of Belarus. pp 80


Nilsson M: Snow cover impact on ground freeze-thaw in northern Sweden. pp 29


Omsedt A: BALTEX – 20 years of international and interdisciplinary research for the Baltic Sea region. pp 1

Omsedt A, Edman M: Modelling the interaction between eutrophication, acidification and climate change in the Baltic Sea. pp 152


Partasenok I, Chekan R: Flood frequency on the rivers in the Belorussian part of the Baltic Sea basin and cyclonic activity. pp 116

Pham Trang Van, Brauch J, Frueh B, Ahrens B: Introducing the coupled atmosphere-ocean system: COSMO-CLM and NEMO for the North and Baltic Seas. pp 82
Philippenko D: Energy flows, production and filtration activity of mollusks in the salinity gradient of estuaries of the southern Baltic Sea. pp 156

Polcher J, Evans J, Benedict S: The GEWEX Hydroclimatology Panel. pp 183

Post P, Kõuts T: Characteristics of cyclones causing extreme sea levels in the Northern Baltic Sea. pp 118

Raschke E: BALTEX - 20 years ago and before. pp 32


Rosenhagen G, Tinz B: New Historical Climate Data of the Southern Baltic Coasts. pp 84


Rutgersson A, Jaagus J, Schenk F, Stendel M: Observed changes and variability of atmospheric parameters in the Baltic Sea region during the last 200 years. pp 85

Ryabchenko V, Molchanov M, Isaev A, Eremina T, Savchuk O, Vankevich R: Estimates of possible changes in indicators of eutrophication of the Baltic Sea under different scenarios of climate change and nutrient loads. pp 159

Saue T, Kadaja J: Precipitation – Too much or too little for potato growth. pp 120

Schenk F, Zorita E: Spatiotemporal climate variations and trends over the Baltic Sea since 1850. pp 87

Schimanke S, Dieterich C, Meier HEM: A new perspective on atmospheric requirements for major inflow events into the Baltic Sea. pp 37

Schneider B, Sadkowiak B: Ten years of CO2 measurements on a cargo ship reveal new insights and knowledge gaps in the Baltic Sea net community production. pp 161

Sein DV, Mikolajewicz U, Groeger M, Maier-Reimer E, Jacob D: Future climate change A1B scenario downscaling - Results for the Baltic and North Sea. pp 89

Sepp M: 'Stormy' circulation types of COST 733 classifications in Estonia. pp 122

Sharov AN, Nazarova LE, Polyakova TN, Berezina NA: Climate change responses of the large aquatic ecosystems in the Baltic Sea basin. pp 163

Soomere T, Eelsalu M, Pindsoo K, Zujev M: Lessons from the almost seven decades of visual wave observations from the eastern Baltic Sea coast. pp 91
Soomere T, and the Baltic Way co-workers: Baltic Way: Towards the use of ocean dynamics for pollution control. pp 180

Stafeeva E, Shkolnik I: Towards flood assessment over Eurasian watersheds using RCM and river flow routing algorithm. pp 123

Stips AK, Lilover M-J: Regime shifts and trends in the Baltic Sea area: A statistical approach. pp 165

Szymczycha B, Pempkowiak J: The Submarine Groundwater Discharge as a carbon source to the Baltic Sea. pp 167

Tarand A: Climate change and local trends in longer air temperature time series of the Baltic region. pp 93

Urbaniak M, Kiedrzyńska E, Zieliński M, Zalewski M: Transport of PCDD/PCDF along the Pilica River continuum under different hydrological conditions – The possible impact on the Baltic Sea environment. pp 168

Urbaniak M, Szewczyk M, Tołoczko W, Zalewski M: Migration, retention and leaching of PCBs in soil fertilized with sewage sludge. pp 170


van der Schrier G, van den Besselaar EJM, Leander R, Klein Tank AMG: Assessment of regional climate variability and change using ECA&D and E-OBS. pp 97

Višbeck M: Future Earth: Research for Global Sustainability. pp 185

Viška M, Soomere T: Long-term variations of simulated sediment transport along the eastern Baltic Sea coast as a possible indicator of climate change. pp 99

Volchak A, Sheshko N, Kostiuk D, Petrov D: Snow storage formation specifics for the Neman river basin. pp 39

von Storch H: Climate Change in the Baltic Sea region - The BACC assessments. pp 5

Wang S, Dieterich C, Döscher R: Simulation of present and future climate variability over the Baltic Sea area with the new SMHI atmosphere-ocean-ice coupled model RCA4_NEMO. pp 101


Westerlund A, Roiha P, Tuomi L, Siiriä S, Boman H: Forecasting sea level variations in the northern Baltic Sea with a three-dimensional hydrodynamical model. pp 41

Wibig J: Precipitation extremes projections for Poland for the period 2021-2050. pp 124

Wolski T, Wiśniewski B: Maximum sea levels on the selected of the Baltic Sea coast. pp 126

Zapadka T, Stoltmann D, Paszkuta M, Sokólski M: Surface radiation budget of the Baltic Sea from satellite data. pp 42

Zhuravlev S: Estimation of the peak outflow from natural lakes within the Neva River basin. pp 128

Zieliński M: Singularities of turbulent sensible heat flux in urban areas – The Łódź case study. pp 44
6. Presentations at Baltic Earth Conferences

6.1 First Conference on Baltic Earth, Nida, Curonian Spit, Lithuania, 13 to 17 June 2016

*Proceedings of the 1st Baltic Earth Conference
Page numbers refer to the Conference Proceedings.
Total number of presentations: 134


Aun M, Eerme K, Aun M, Ansko I: Changes in UV radiation in Estonia based on measurements and model calculations of UVA and UVB doses since 1955 at Tõravere. pp 135

Binczewska A, Astemann P, Moros M, Sławińska J: Benthic foraminifera record environmental and climate changes in the Bornholm Basin (Baltic Sea) over the last 6 millennia pp 11

Boesch DF, Johnson Z, Li M: Rehabilitating the Chesapeake Bay (USA) ecosystem under changing climate pp 1

Borzenkova I, Borisova O, Sapelko T: The temporal and spatial distribution of the cool episode about 8.2 ka ago in the Baltic Sea basin and surrounding areas. pp 165

Bulskaya I, Kolbas A, Dyliuk D, Kuuzmitsky A: The impact of the urban surface runoff on the receiving river: the case study of Brest, Belarus. pp 189

Buschmann F, Erm A, Rebane J, Listak M: Investigating sediment resuspension using combined optical and acoustic methods. pp 111

Čerkasova N, Kataržytė M, Umgiesser G, Baltranaitė E: Curonian Lagoon bathing water quality assessment through microbial pollution modelling. pp 190

Česnulevičius A, Bautrėnas A, Bevainis L, Morkūnaitė R, Ovodas D: Intensity of Eolian processes on Lithuanian part of Curonian Spit. pp 112

Chen Y, Cvetkovic V: Numerical simulation of hydrodynamic process at Oskarshamn harbor—coupling model with Baltic Sea. pp 137


Daewel U, Schrum C: On the relevance of higher trophic levels for modelling ecosystem dynamics in the Baltic Sea. pp 168

Dailidiene I, Davuliene L, Genyte V: Marine saline water intrusions and variation in the Curonian Lagoon. pp 12


Djačenko A, Stankūnavičius G: HOAPS water vapour characteristic during storms and heavy precipitation events over SE Baltic Sea region. pp 71
Dreier N, Fröhle P: Impacts of regional climate change on the potential longshore sediment transport at the German Baltic Sea coast. pp 115

Edman M, Almroth-Rosell E, Eilola K, Sahlberg J, Meier HEM: Model based inventory of nutrient retention efficiency and coastal filter function along the entire Swedish coast. pp 35


Ernsteins R, Lagzdina E, Lapinkis J, Lontone A, Kaulins J, Kudrenickis I: Coastal resources understanding and local governance development: Socio-ecological system and indicators prerequisite. pp 191


Fortuniak K, Pawlak W, Siedlecki M: Multi-annual eddy-covariance measurements of surface energy balance components for urban, agricultural and natural wetland sites in Poland. pp 139

Friedland R, Neumann T, Schernewski G: Using integrated modeling to derive the historical water quality in the south-western Baltic Sea. pp 194

Frishfelds V, Bithers U, Sennikovs J: Tracer studies of water exchange in Gulf of Riga, winter 2015-2016. pp 13

Galiniene J, Verkuleviciute D, Gadal S: Changes of the baltic sea coastal urban region (with example of Klaipeda settlement). pp 195

Golenko M, Sabinin K, Rak D: Investigation of properties of inertial waves on the base of long-term ADCP data at moored stations in the Slupsk Furrow and Gdansk Deep. pp15


Haapala J, Uotila P, An B: Will there be extreme sea ice winters in future? pp 73

Hagemann S, Blome T: Does soil frost-induced soil moisture precipitation feedback play a role over the Baltic Sea catchment? pp 141

Haglund K, Claremar B, Rutgersson A: Deposition of sulfur, nitrogen and particles originating from shipping activities in the Baltic and North Seas. pp 197

Harff J, Jöns H, Rosentau A: Interrelation of geosphere, climate processes and anthroposphere in the Baltic Sea basin during the Holocene pp 3


Höflich K, Lehmann A, Myrberg K: On the role of the haline conditions in the Belt Sea in the formation of highly saline barotropic inflows to the Baltic Sea. pp 16

Ho-Hagemann HTM, Gröger M, Rockel B, Zahn M, Geyer B, Meier HEM: A potential remote impact of air-sea coupling over the North and Baltic Sea on precipitation simulated over Central Europe. pp 171

Holfort J, Perlet I, Stanislawczyk I: Rapid changes in sea level. pp 119

Humborg C: Agriculture in the Baltic Sea region, major driver and challenges pp 4

Hünicke B, Zorita E: Acceleration of mean sea-level rise in the Baltic Sea since 1900. pp 120

Jaagus J, Sepp M: Regime shift in winter climatic conditions and river runoff in Estonia since the winter 1988/89. pp 143

Jakacki J, Przyborska A, Białoskórski M, Pliszka B: Analysis of the spread of chemical munitions dumped in the Baltic Sea. pp 199


Jeworrek J, Wu L, Rutgersson A: Numerical modelling of convective snow bands in the Baltic Sea area using atmosphere-ocean-wave coupled model systems. pp 76


Kamenik J: Return period of Estonian precipitation extremes. pp 78

Kapustina M, Bukanova T, Stont Z: On some hydrometeorological monitoring results in the south-eastern part of the Baltic sea during the last decade. pp 201

Keevallik S: Detection of cold and warm anomalies: The example of Estonia. pp 146

Klehmert K, Rockel B: Attribution of storm surge events in the southern Baltic Sea to anthropogenic influences. pp 122


Kuchar L, Iwański S, Gasiorek E, Diakowska E: Hydrothermal conditions in Poland until year 2060 and selected climate change scenarios. pp 175


Kulikov E, Medvedev I: Extreme statistics of storm surges in the Baltic Sea. pp 123


Kvach A, Zhuravovich L: Luninsky swampland water-level regime. pp 148

Lakatos M, Güttler I, Cuxart Rodamilans J: PannEx: Towards a Regional Hydroclimate Project in the Pannonian Basin pp 5

Lehmann A, Höflisch K, Post P, Myrberg K: Pathways of deep cyclones associated with large volume changes (LVCs) and Major Baltic Inflows (MBIs) pp 18

Lenhardt J, Brauch J, Früh B, von Pham T: Evaluation of the coupled COSMO-CLM+NEMO-Nordic model with focus on North and Baltic seas. pp 177

Liblik T, Skudra M, Lips U: High-resolution view on the subsurface salinity maxima in the Gulf of Riga. pp 20

Lilover M-J, Elken J, Liblik T: Statistics of deep estuarine circulation vs reverse estuarine circulation in the Gulf of Finland. pp 21

Litina E, Zakharchuk E: Salinity oscillations in the range of seasonal variability. pp 23

Lodenius M: Which factors affect metal and radionuclide pollution in the Baltic Sea? pp 203

Mačiulytė V, Rimkus E: Drought monitoring in Lithuania using NDVI. pp 84

Medvedev I, Kulikov E, Rabinovich A: The sea level variability at the southeastern coast of the Baltic Sea: from hours to centuries. pp 124

Medvedeva A, Arkhipkin V, Myslenkov S: The special features of the wind waves in the Baltic Sea following the results of numerical modelling. pp 86

Meier HEM, Edman M and members of the Baltic Earth working group on scenario simulations for the Baltic Sea 1960-2100: Estimating uncertainties in projections for the Baltic Sea region based upon an ensemble of regional climate system models. pp 179

Meinke I: Dialogue- and communication forms as parallel infrastructure of climate- and coastal research at the Southern Baltic Sea coast. pp 205

Melnik V, Sokolovskaya Y: Heat waves in Belarus. pp 88

Melnik V, Komarovskaya E: Main trends of climate changes and severe weather activity for last decades across the territory of the Republic of Belarus. pp 90


Mingelaite T, Dailidiene I, Kozlov I: Sea-lagoon interaction during upwelling processes in the SE Baltic Sea. pp 150

Möller J, Heinrich H: The new established Expertennetzwerk: The focus-region “Südwestliches Schleswig-Holstein” and a case study to long-term changes in the intensity of extreme water levels. pp 92


Moldanova J, Quante M: SHEBA – Sustainable shipping and environment of the Baltic Sea. pp 206


Naumann M, Nausch G, Mohrholz V: A succession of four Major Baltic Inflows in the period 2014-2016 – an overview of propagation and environmental change. pp 27

Omstedt A: Connecting Analytical Thinking and Intuition: Challenges for leadership and education in Earth System Sciences pp 7

Omstedt A, Turner D, Edman M, Gallego-Urrea J, Claremar B, Hassellöv I-M, Rutgersson A: Modelling the contributions to marine acidification from deposited SOx, NOx, and NHx in the Baltic Sea: Past, present and possible future situations. pp 50

Pärn O, Rjazin J, Uiboupin R: The ice seasons severity by the ice extents sum on the Baltic Sea during 1982-2015. pp 151

Partasenok I, Geyer B: Projection of climate changes in Belarus according to ensemble models. pp 153

Pauros A: The spatio-temporal changes of ice regime in the Baltic Sea basin rivers in the Republic of Belarus in a period of global warming. pp 155

Pindsoo K, Eelsalu M, Soomere T: Spatial variation of statistical properties of extreme water levels along the eastern Baltic Sea coast. pp 126

Piotrowski P, Jędruszkiewicz J, Zieliński M: Precipitation in coastal area of Poland. pp 156


Post P, Lehmann A: Assessment of long time series of atmospheric circulation patterns forcing large volume changes and major inflows to the Baltic Sea. pp 28


Raschke E, Kinne S: Comparison of Observed and Modelled Radiative Energy Flows. pp 182

Raub T, Getzlaff K, Jacob D, Lehmann A: The BALTEX Box revisited: The energy budget of the Baltic Sea in the coupled regional climate model REMO-BSIOM. pp 158


Rukšėnienė V, Dailidiene I, Kelpšaitė-Rimkienė L: Relationship between air temperature and sea water temperature in the different depths of SE Baltic Sea. pp 160


Salecker D, Gruhn A, Fröhle P: Determining the combined probability of occurrence of storm surge hydrographs and extreme sea state conditions. pp 130


Saue T, Jauhiainen L, Kadaja J, Peltonen-Sainio P: Projected lengthening of spring cereals growing season in Estonia and accompanying high impact events of elevated temperatures. pp 96

Savchuk OP: Myths of the Baltic Sea eutrophication. pp 211

Schade N, Sadikni R, Jahnke-Bornemann A, Hinrichs I: An extended North- and Baltic Sea climatology (NBSC) of atmospheric and hydrographic in-situ data. pp 183


Sennikovs J, Klints I, Beters U: Cluster analysis of contemporary and future climate of Latvia. pp 213

Sennikovs J, Beters U, Plunge S, Beters P: Large scale, high resolution land-use based hydrological model for the territory of Lithuania. pp 57

Sepp M, Post P, Mändla K, Aunap R: Changes in the life cycle characteristics of cyclones entering the Baltic Sea region. pp 162

Sepp M, Järvet A: Water level changes of the Emajõgi and the Neman rivers in the vegetation period. pp 164

Sepp M, Tamm T, Sagris V: The future climate regions in Estonia. pp 185


Siriä S, Tuomi L, Rooiha P, Purokoski T, Alenius P: Using shallow-water Argo floats to monitor the Major Baltic Inflows in the Gotland Deep. pp 33

Sławińska J, Borowka R, Moros M, Binczewska A, Bak M: Sedimentology and geochemistry of marine deposits from Bornholm and Gdansk Basins - stratigraphical records. pp 34

Šmatas V, Stankūnavičius G: Analysis of severe weather using WRF model. pp 98

Smith B, Lindeskog M, Engström K, Olin S, Poska A: Robustness and uncertainty in future nutrient loads from land ecosystems across the Baltic Sea catchment area. pp 59

Soomere T, Eelsalu M, Pindsoo K: Water level extremes signal changes in the wind direction in the north-eastern Baltic Sea. pp 132


Stigebrandt A: Restoration of the Baltic Proper by decadal oxygenation of the deepwater. pp 215
Stips A, Macia D, Garcia-Gorriz E, Miladinova S, Neumann T: Eutrophication assessments using ecosystem model data. pp 60

Stonevicius E, Rimkus E, Staras A, Vasiuskevičius G: Climate change effect on snow climate in Neman basin. pp 216

Szwejkowski Z, Dragańska E, Cymes I, Suchecki S: Extreme weather condition of the northern-eastern part of Poland and their relationship with atmospheric oscillation. pp 100

Szymczycha B, Pempkowiak J: Groundwater discharge to the southern Baltic Sea. pp 62

Tinz B, Röhrbein D, von Storch H: Meteorological observations of signal stations - a data source for the analysis of extreme weather events? pp 101

Toll V, Post P: Daily temperature and precipitation extremes in the Baltic Sea region derived from the BaltAn65+ reanalysis and EOBS database. pp 186

Urbis A, Povilanskas R: Psychophysical aesthetic ranking of coastal landscapes: A case study of the Curonian Spit (Lithuania). pp 218

Valainis A, Bethers U, Sennikovs J: Climatic wave modeling in Baltic Proper and Gulf of Riga using SWAN. pp 188


von Storch H: Conceptual challenges of climate servicing. pp 219

Voormansik T, Post P, Tanilsoo T, Moisseev D, Rossi P: Thunderstorm hail and lightning prediction parameters based on dual polarization Doppler weather radar data. pp 105

Wibig J, Piotrowski P: Drivers of precipitation extremes in different spatial and temporal scales. pp 107

Winogradow A, Pempkowiak J: Changes of sedimentary organic matter en route from source to sink areas in the Southern Baltic. pp 66

Zekker I, Raudkivi M, Rikmann E, Vabamäe P, Kroon K, Tenno T: High nitrite concentration inhibits nitrite-adapted granular anammox biomass less compared to biofilm. pp 67

Zhigulski V, Shilin M, Ershova A: Management of reclaimed coastal areas: case of the new Bronka port in the Neva Bay. pp 221

Zhuravlev S, Kurochkina L, Shalashina T: Detection of trends in the magnitude of spring floods for the eastern parts of the Gulf of Finland basin. pp 108
6.2 Second Conference on Baltic Earth, Helsingør, Denmark, 11 to 15 June 2018

*Proceedings of the 2nd Baltic Earth Conference
Page numbers refer to the Conference Proceedings.
Total number of presentations: 126

Arneborg L: Analysis of factors influencing the salinity of Baltic inflows and how these may change with sea level rise. pp 13

Asadchaya M, Kvach A, Zhuravovich L: Impact of «small» climate-forming factors in the formation of the hydrological regime of the basins of the Zapadnaya Dvina and Neman Rivers in Belarus. pp 147

Baltaci H: Temporal behavior of atmospheric circulation types in Marmara Region (NW Turkey). pp 149

Bange H: The Eckernförde Bay (SW Baltic Sea) through the ages: Time-series measurements at the Boknis Eck time-series station. pp 175

Bathmann U: Baltic Earth in context with other European and national Earth system programmes. pp 1

Baužienė I, Edvardsson J, Lamentowicz M, Taminskas J, Šimanauskienė R: Hydroclimatic dynamics and peatland land cover response over last centuries – A multi-proxy reconstruction from hydro-meteorological data, peat stratigraphy, testate amoebas and remotely sense approaches. pp 177

Bhatt BC, Sorteberg A: Evaluation of the ERA-20C data using surface observations in the Hardanger Glacier, Norway. pp 197


Brunnabend S-E, Gräwe U, Lange X, Meier HEM: Water exchange through the Danish Straits with global mean sea level rise. pp 16


Brusendorff A-C: International science collaboration for ocean climate. pp 3


Christensen OB, Larsen MAD, Drews M, Stendel M, Christensen JH: Do we know more about climate change than during PRUDENCE? pp 200

Cieślikiewicz W, Cupiał A: Reliability of HIPOCAS wind wave hindcast data for the southern Baltic Sea. pp 71

Cuxart J: Update on GEWEX in its 30th anniversary. pp 4

Daewel U, Schrum C, Geyer B: The critical role of atmospheric forcing for simulating the dynamics of the Baltic Sea ecosystem. pp 151

Danilovich I, Zhuravlev S, Kurochkina L, Kvach A: Model estimates of climate and streamflow changes in the Western Dvina River basin. pp 153
Di Baldassarre G: Natural hazards and socio-technical vulnerabilities in the Baltic Sea region. pp 5
Edman M, Eilola K, Almroth-Rosell E, Meier HEM, Wåhlström I, Arneborg L: Nutrient retention along the Swedish coastline. pp 37
Eggert A, Schneider B, Müller J, Wasmund N, Nausch M, Nausch G, Rehder G: High resolution nutrient data to unravel the post-spring bloom elemental cycling in the central Baltic Sea. pp 38
Elken J, Zujev M: Using model-based sub-regional EOF patterns to reconstruct temperature and salinity fields from observations. pp 18
Felgentreu L, Nausch G, Bitschofky F, Nausch M, Schulz-Bull D: Spatial and seasonal phosphorus changes in the water column of an estuary of the southern Baltic Sea. pp 40
Fery N, Tinz B, Ganske A, Gates L: Reproduction of 10m-wind and sea level pressure fields during extreme storms with regional and global atmospheric reanalyses in the North Sea and the Baltic. pp 73
Frauen C, Börgel F, Meier HEM: Atmospheric Forcing of Major Baltic Inflows in a 750 Years Simulation. pp 20
Frauen C, Gräwe U, Meier HEM: Assessment of Different Wind Products as Forcing for Baltic Sea Ocean Models. pp 204
Frishfelds V, Sennikovs J, Bethers U: Seasonal variability of diurnal seiches in Gulf of Riga. pp 117
Gecaite I: Variability of wind storms during cold season in Northern Europe over the past 70 years. pp 75
Gieße C, Meier HEM: Haline convection due to sea ice brine rejection in the Northern Baltic Sea. pp 22
Giudici A, Kalda J, Soomere T: Modeling patchiness on the sea surface caused by the interplay of winds and currents in the Gulf of Finland. pp 119
Golenko M, Zhurbas V: Analysis of bottom and wind friction velocities in inflow and non-inflow periods in the Baltic Sea. pp 155
Groll N, Weisse R, Gaslikova L: Baltic storm surge event Axel along the German Baltic Sea coast in a climate perspective. pp 77

Hagemann S, Stacke T, Ho-Hagemann HTM: High resolution discharge simulations over Europe and the Baltic Sea catchment. pp 206

Halsnæs K, Dahl Larsen MA, Drønen N, Bach Kristensen F, Sørensen C, Brahtz Christensen B: Integrated coastal hazard risk reduction and management – a closer look at the dynamical damage cost methodology used in the COHERENT project. pp 78

Hammer K, Kuliński K, Szymczycha B, Koiorowska K, Stokowski M, Schneider B: The structure of the CO2 system in the mouths of the continental rivers: Odra, Vistula, Leba and Slupia. pp 40


Höflich K, Lehmann A: Decadal variations in barotropic inflow characteristics and their relationship with Baltic Sea salinity variability. pp 25

Höflich K, Lehmann A: Implementing surface wave effects into an ocean general circulation model of the Baltic Sea: A semi-empirical type wave model approach. pp 210

Holfort J, Weidig B, Perlet I, Schwehmann S: Extreme sea levels on the German Baltic Sea coast. pp 80


Jaagus J, Aasa A: Changes in drought indices in Estonia during the period of the contemporary climate warming. pp 81

Jurasisinski G, Voss M, Janssen M, Lennartz B, the Baltic TRANSCOAST Team: Understanding the ecocline at shallow coasts of the Baltic Sea. pp 48


Kniebusch M, Meier HEM, Neumann T: Temperature variability of the Baltic Sea since 1850 in model simulations and observations and attribution to variability in the atmosphere. pp 181

Kowalewska-Kalowska H: Causes, frequency and strength of severe high water events in the Odra River mouth area (the southern Baltic Sea). pp 87

Kowalewska-Kalowska H, Kowalewski M: Storm surge modelling in the Baltic Sea using the high resolution PM3D model. pp 88

Krayushkin E, Lavrova OY, Nazirova KR: Distinctive features of surface circulation in the southeastern part of the Baltic Sea by subsatellite oceanographic experiments held in 2014-2017. pp 121

Kudryavtseva N, Pindsoo K, Soomere T: Non-stationary modeling of extremes in water levels along the Baltic Sea coast. pp 92


Kurkin A, Kurkina O, Pelinovsky E, Rouvinskaya E: Modeling of internal waves in the Baltic Sea. pp 123

Kurkina O, Kurkin A, Rouvinskaya E, Giniyatullin A: Observations, modeling and analysis of internal gravity waves in Sea of Okhotsk. pp 125


Liblik T, Lips U: Long-term changes in stratification in the Baltic Sea. pp 27

Mačiulytė V: Relationship between satellite measured soil moisture and meteorological parameters. pp 159

Madsen KS, Murawski J, She J, Langen PL: Sea level change: mapping municipality needs for climate information. pp 127

Madsen KS, Høyer J, She J, Knudsen P, Suursaar Ü: Validation of altimetry-derived regional sea level trends based on reconstruction of Baltic Sea 2D sea level of the last century. pp 129


Marjamaa R, Tuomi L, Björkqvist J-V, Kanarik H, Vainio J, Hordoir R: Different methods to handle seasonal ice cover in wave modelling. pp 212

Medvedev I, Medvedeva A: Spatial and temporal features of synoptic and mesoscale Baltic sea level variability. pp 132

Medvedeva A, Myslenkov S, Arkhipkin V: The Connection of Storms and Significant Wave Heights in the Baltic Sea with Indices of Large-scale Atmospheric Circulation (NAO, AO, SCAND). pp 95

Meier HEM, Väli G, Naumann M, Eilola K, Frauen C: Recently accelerated oxygen consumption rates amplify deoxygenation in the Baltic Sea – observations and model results. pp 184

Melnik V: Changes of the frames of agroclimatic areas in the XXI century on the territory of Belarus. pp 185

Miller P: Regional and Global Earth System Modelling Activities in MERGE. pp 6

Möller J, Tinz B: A comparison of observed extreme water levels at the North- and Baltic Sea with extremes derived from a regionally coupled ocean-atmospheric climate model (MPI-OM) and their impact on dewatering potential at Kiel-Canal. pp 97

Mohrholz V, Heene T: The Słupsk Sill overflow – mixing hot spot of eastward spreading saline water. pp. 28

Mohrholz V: Major Baltic Inflow statistics – revisited. pp 30


Neumann T, Eggert A: A Baltic Sea Ecosystem Model with non-Redfield Stoichiometry for Carbon Fixation. pp 56

Omstedt A: The development of climate science of the Baltic Sea region. pp 8

Ovcharuk V, Todorova O, Myrza E: The maximum runoff of small rivers of the Mountainous Crimea flowing into the Black Sea in modern climatic conditions. pp 162

Parnell K: Building natural morphologies for effective beach nourishment. pp 134

Patzke J, Kelln J, Salecker D, Froehle P: Temporal development of residence times and the power impact to the German Baltic sea coastline induced by storm surge events. pp 98

Pauros A, Kvach A, Zhuravovich L: Influence of the Grodno hydroelectric power station on the hydrological regime of the Neman river (Belarus, the Baltic Sea basin). pp 189


Ponomarenko E, Dorokhova E, Krenchik V: Benthic foraminifera distribution in the South-Eastern Baltic Sea in relation to the North Sea Water Inflow. pp 31

Porz L, Zhang W, Schrum C: Modelling the Development of Large-Scale Mud Deposits in the Baltic Sea Basins driven by energetic events. pp 136


Rahu J, Voormansik T, Post P: Enhancement of radar rainfall estimates for Estonian territory through optical flow temporal interpolation. pp 164

Randla M, Ligi M, Kutser T, Anser A, Alikas K: Scattering and backscattering properties of Estonian coastal waters. pp 137


Ryabchenko V, Leontyev IO, Ryabchuk DV, Sergeev AY, Dvornikov AY: S. D. Martyanov, V. A. Zhamoida Coastal erosion on the Kotlin Island’s coastline in the Gulf of Finland, the Baltic Sea: a model study to elaborate mitigation measures. pp 141


Schneider B: Organic matter mineralization in Baltic Sea deep waters: Rates and stoichiometry. pp 63

Semenova I, Slizhe M: Distribution of droughts and dry winds in the Black Sea Steppe province under current climate conditions. pp 101


Sepp M: On Summer Low Water Periods in Estonian Rivers in the Years 1951-2016

Sepp M, Post P, Lakson M: Climate Change in Estonia – warmer weather patterns or more warm weather patterns? pp 216

She J, Murawski J: Salinity dynamics and inter-sub-basin transport in the Baltic Sea. pp 32

She J, Andersson P, Kõuts T, Mirawslov D, Reißmann JH, Tuomi L: Baltic Sea Operational Oceanographic System (BOOS) – a stimulator to Baltic earth system research. pp 10

Stendel M: ERAS: High temporal and spatial resolution reanalyses as a tool to investigate high impact events and other natural hazards in the Baltic Earth region. pp 104

Stokowski M, Kuliński K, Schneider B, Rehder G, Müller J: Transformations of the carbonate system in the Odra estuary. pp 65

Suuhova I, Liblik T, Lilover M-J, Lips U: A descriptive analysis of the linkage between the vertical stratification and current oscillations in the Gulf of Finland. pp 168

Sumak K, Semenova I: The regional features of cyclonic activity and frequency of weather extremes over the territory of Belarus. pp 105


Teutsch I: Rogue Waves in the southern North Sea. pp 107

Viru B, Jaagus J: Seasonal and long-term dynamics of snow cover regime in Estonia. pp 108

von Storch H: Baltic Earth, Outreach and Communication. pp 12

Voormansik T, Cremonini R, Moisseev D, Post P: Extreme rainfall analysis and estimation of intensity-duration-frequency curves using dual polarization weather radar data of Estonia and Italy. pp 110

Vortmeyer-Kley R, Berthold M, Gräwe U, Feudel U: Eddies’ impact on biological processes – A case study in the Western Baltic Sea for the algal blooming season 2010. pp 68

Vuglinsky V, Timchenko D: Assessment of changes in river runoff for small and medium-sized rivers in the Russian part of the Baltic Sea basin under non-stationary climatic conditions. pp 172

Weisse R, Gaslikova L, Grabemann I: Identification of extreme storm tides with high impact potential for the German North Sea coast. pp 143

Wibig J: The atmospheric circulation as a driver of dry spell in Poland. pp 112

Willén U: Cloud and radiation variability and trends for the northern Baltic region as observed and modelled for present day climate and future scenarios. pp 174

Wolski T, Wiśniewski B: Geographical diversity in the occurrence of extreme sea levels on the coasts of the Baltic Sea. pp 144


Zhang W, Daewel U, Wirtz K, Schrum C: Variation of organic carbon cycling modulated by benthic animals in the Baltic Sea in the past six decades. pp 70

7. International BALTEX Secretariat Publication Series

ISSN 1681- 6471 (as of No. 22)

No. 55, August 2013:
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22nd Meeting of the BALTEX Science Steering Group held at Swedish Meteorological and Hydrological Institute, Norrköping, Sweden 23-25 May 2008, 56 pages.

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No. 30, October 2004:
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Minutes of the 10th Meeting of the BALTEX Science Steering Group at the Faculty of Environmental Engineering, Warsaw Technical University, Warsaw, Poland, 7-9 February 2000. 133 pages.

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Minutes of the 8th Meeting of the BALTEX Science Steering Group at Stockholm University in Stockholm, Sweden, 8-10 December 1998, 94 pages.

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Minutes of the 5th Meeting of the BALTEX Science Steering Group at Latvian Hydrometeorological Agency in Riga, Latvia, April 14-16, 1997, 155 pages.

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Minutes of the 4th Meeting of the BALTEX Science Steering Group at Institute of Oceanology PAS in Sopot, Poland, June 3 - 5, 1996, 129 pages.

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Minutes of the 3rd Meeting of the BALTEX Science Steering Group at Strand Hotel in Visby, Sweden, 2 September 1995, 98 pages.

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8. International Baltic Earth Secretariat Publication Series

ISSN 2198-4247

No. 14, November 2018

No. 13, June 2018

No. 12, March 2018:

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No. 10, February 2017:

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No. 7, October 2015:

No. 6, August 2015:

No. 5, August 2015:
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and Vilsandi Island, Estonia, 10-14 August 2015. International Baltic Earth Secretariat Publication No. 5, 66 pages

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No. 2, May 2014:

No. 1, January 2014: