



BALTEX Publications

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The data base for the publications is the BALTEX electronic publication library, accessible via the BALTEX homepage at www.baltex-research.eu. A book, journal article or report is qualified as a BALTEX publication, if either it describes results of a BALTEX project and BALTEX 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 objective, and the authors agree that their publication is listed on the BALTEX website and publication database.

At present, there are 8 books, 651 peer-reviewed journal articles, 65 reports and 701 Study Conference presentations with reference to BALTEX.

Status as of 1 February 2012

Silke Köppen and Marcus Reckermann

International BALTEX Secretariat

1. Books

- The BACC Author Team, 2008: Assessment of Climate Change for the Baltic Sea Basin. Springer Verlag, 474 p.
- Feistel, R., G. Nausch, N. Wasmund (Eds), 2008: State and Evolution of the Baltic Sea, 1952 – 2005 A Detailed 50-Year Survey of Meteorology and Climate, Physics, Chemistry, Biology, and Marine Environment, John Wiley & Sons, Inc., Hoboken
- 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.
- Håkanson, L. and Bryhn, A.C., 2008a. Tools and criteria for sustainable coastal ecosystem management – with examples from the Baltic Sea and other aquatic systems. - Springer Verlag, Berlin, Heidelberg, 292 p.
- Håkanson, L. and Bryhn, A.C., 2008b. Eutrophication in the Baltic Sea – present situation, nutrient transport processes, remedial strategies. Springer Verlag, Berlin, Heidelberg, 264 p.
- Harper D., Zalewski M., Pacini N., (Eds.) 2008: Ecohydrology: Processes, Models and Case Studies. An approach to the sustainable management of water resources. CAB International. Cromwell Press, Trowbridge, UK. 391 pp.
- Leppäranta, M. and Myrberg K., 2009: Physical Oceanography of the Baltic Sea, Springer Verlag, 410 p
- Omstedt, A., 2011: Guide to Process Based Modeling of Lakes and Coastal Seas Series: Praxis Books, Geophysical Sciences. Springer Verlag, Heidelberg, 2011. 310 p.

2. Special Journal Issues dedicated to BALTEX

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

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

- Calanca, P., C. Fortelius: Representation of model data and evaluation of diagnostic equations in pressure coordinates. pp. 756-766
- Haapala, J., M. Leppäranta: 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
- Karstens, U., R. Nolte-Holube, B. Rockel: Calculation of the water budget over the Baltic Sea catchment area using the regional forecast model REMO for June 1993. pp. 684-692
- Keevallik, S., H. Tooming: Relationships between surface albedo and spring heat accumulation. pp. 727-732

- Lass, H. U., W. Matthäus: On temporal wind variations forcing salt water inflows into the Baltic Sea. pp. 663-671
- Ljungemyr, P., N. Gustafsson, A. Omstedt: Parameterization of lake thermodynamics in a high-resolution weather forecasting model. pp. 608-621
- Lohmann, D., R. Nolte-Holube, E. Raschke: A large-scale horizontal routing model to be coupled to land surface parametrization schemes. pp. 708-721
- Mölders, N., A. Raabe, G. Tetzlaff: A comparison of two strategies on land surface heterogeneity used in a mesoscale β meteorological model. pp. 733-749
- Omstedt, A.: Preface. pp. 607
- Omstedt, A., L. Nyberg: 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., A. Stigebrandt: 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

2.2 Meteorologische Zeitschrift, Vol. 9, No. 1-2, 2000
2nd Study Conference on BALTEX 1998, 14 papers

- Graham, L. P., D. Jacob: Using large-scale hydrologic modelling to review runoff generation processes in GCM climate models. pp. 49-58
- Hagedorn, R., A. Lehmann, D. Jacob: A coupled high resolution atmosphere-ocean model for the BALTEX region. pp. 7-20
- Kerschgens, M.: Editorial. pp. 3-4.
- Lenderink, G., E. van Meijgaard, A. Holtslag: Evaluation of the ECHAM4 cloud-turbulence scheme for Stratocumulus. pp. 41-48
- Omstedt, A., A. Rutgersson: Closing the water and heat cycles of the Baltic Sea. pp. 59-66
- Paplinska, B.: 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., J. A. Konings, A. Feijt, A. van Lammeren: 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., F. Hamelbeck: 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., E. Ruprecht: SSM 1-derived total water vapour content over the Baltic Sea compared to independent data. pp. 117-124

Michelson, D. B., V. Foltescu, L. Häggmark, B. Lindgren: MESAN Mesoscale analysis of precipitation. pp. 85-96

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

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

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

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

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

Haimberger, L., B. Ahrens, F. Hamelbeck, M. Hantel: Impact of time sampling on atmospheric energy budget residuals. pp. 167-185

Hamelbeck, F., L. Haimberger, M. Hantel: Convection in PIDCAP Part I: Evaluating LAM convection. pp. 85-98

Hantel, M., L. Haimberger, F. Hamelbeck: Convection in PIDCAP Part II: DIAMOD - A standard for diagnosing convective quantities. pp. 185-203

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., B. J. J. M. Van den Hurk, U. Andræ, G. Elgered, C. Fortelius, L. P. Graham, S. D. Jackson, U. Karstens, C. Köpken, R. Lindau, R. Podzun, B. Rockel, F. Rubel, B. H. Sass, R. N. B. Smith, X. Yang: A comprehensive model inter-comparison study investigating the water budget during the BALTEX-PIDCAP period. pp. 19-44

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

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

Rubel, F., M. Hantel: BALTEX 1/6-degree daily precipitation climatology 1996-1998. pp. 155-166

Stoew, B., G. Elgered, J. M. Johansson: An assessment of estimates of integrated water vapor from ground-based GPS data. pp. 99-108

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

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

- Alestalo, M.: Preface. pp. 173
- Crewell, S., M. Drusch, E. van Meijgaard, A. van Lammeren: Cloud observations and modeling within the European BALTEX Cloud Liquid Water Network. pp. 235-246
- Döscher, R., U. Willén, C. Jones, A. Rutgersson, H. E. M. Meier, U. Hansson, L. P. Graham: The development of the regional coupled ocean-atmosphere model RCAO. pp. 183-192
- Etling, D., G. Harbusch, B. Brümmer: Large-Eddy-Simulation of an off-ice airflow during BASIS. pp. 225-228
- Feijt, A., D. Jolivet, E. van Meijgaard: Retrieval of the spatial distribution of liquid water path from combined ground-based and satellite observations for atmospheric model evaluation. pp. 265-272
- Fortelius, C., U. Andræ, M. Forsblom: The BALTEX regional reanalysis project. pp. 193-202
- Gryning, S.-E., E. Batchvarova: Marine boundary-layer height estimated from the HIRLAM model. pp. 229-235
- Hollmann, R., A. Gratzki: The satellite derived surface radiation budget for BALTEX. pp. 247-252
- Koistinen, J., D. B. Michelson: BALTEX weather radar-based precipitation products and their accuracies. pp. 253-264
- Kücken, M., F.-W. Gerstengarbe, P. C. Werner: Cluster analysis results of regional climate model simulations in the PIDCAP period. pp. 219-224
- Lorant, V., N. MacFarlane, R. Laprise: A numerical study using the Canadian Regional Climate Model for the PIDCAP period. pp. 203-210
- Oesterle, H.: Selection of representative stations by means of a cluster analysis for the BAMAR region in the PIDCAP period. pp. 301-304.
- Okulov, O., H. Ohvril, R. Kivi: Atmospheric precipitable water in Estonia, 1990 – 2001. pp. 291-200
- Pirazzini, R., T. Vihma, J. Launiainen, P. Tisler: Validation of HIRLAM boundary-layer structures over the Baltic Sea. pp. 211-218
- Post, P., V. Truija, J. Tuulik: Circulation weather types and their influence on temperature and precipitation in Estonia. pp. 281-290
- Raschke, E., J. Meywerk, B. Rockel: Has the project BALTEX so far met its original objectives? pp. 175-182
- Sepp, M., J. Jaagus: Frequency of circulation patterns and air temperature variations in Europe. pp. 273-280

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

- Alestalo, M.: Preface. pp. 305
- Berger, F.H.: Surface radiant and energy flux densities inferred from satellite data for the BALTEX watershed. pp. 343-352
- Brümmer, B., A. Kirchgäßner, G. Müller, D. Schröder, J. Launiainen, T. Vihma: The BALTIMOS (BALTEX Integrated Model System) field experiments: A comprehensive

- atmospheric boundary layer data set for model validation over the open and ice-covered Baltic Sea. pp. 371-378
- Clemens, M., K. Bumke: Precipitation fields over the Baltic Sea derived from ship rain gauge measurements on merchant ships. pp. 425-436
- Gryning, S.-E., S. Halldin, A. Lindroth: Area averaging of land surface-atmosphere fluxes in NOPEX: challenges, results and perspectives. pp. 379-388
- Kitaev, L., A. Kislov, A. Krenke, V. Razuvaev, R. Martuganov, I. Konstantinov: The snow cover characteristics of northern Eurasia and their relationship to climatic parameters. pp. 437-446
- Klavins, M., A. Briede, V. Rodinov, I. Kokorite, T. Frisk: Long-term changes of the river runoff in Latvia. pp. 447-456
- Lehmann, A., H.-H. Hinrichsen: Water, heat and salt exchange between the deep basins of the Baltic Sea. pp. 405-416
- Lindau, R.: Energy and water balance of the Baltic Sea derived from merchant ship observations. pp. 417-424
- Malinin, V. N., A. Nekrasov, S. Gordeeva: Inter-annual variability of the Baltic Sea water balance components and sea level. pp. 399-404
- Maslowski, W., W. Walczowski: 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, H.E.M., R. Döscher: Simulated water and heat cycles of the Baltic Sea using a 3D coupled atmosphere-ice-ocean model. pp. 327-334
- Oltchev, A., J. Cermak, N. Nadezhkina, F. Tatarinov, A. Tishenko, A. Ibrom, G. Gravenhorst: Transpiration of a mixed forest stand: field measurements and simulation using SVAT models. pp. 389-398
- Peters, G., B. Fischer, T. Andersson: Rain observations with a vertically looking Micro Rain Radar (MRR). pp. 353-362
- Rimkus, E., G. Stankunavichius: Snow water equivalent variability and forecast in Lithuania. pp. 457-462
- Roads, J., E. Raschke, B. Rockel: BALTEX water and energy budgets in the NCEP/DOE re-analysis II. pp. 307-318
- Stigebrandt, A., H.U. Lass, B. Liljebladh, P. Alenius, J. Piechura, R. Hietala, A. Beszczynska: DIAMIX - An experimental study of diapycnal deepwater mixing in the virtually tideless Baltic Sea. pp. 363-370
- Stipa, T., J. Vepsäläinen: 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

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

The European CLIWA-NET project, 6 papers

- Güldner J., J.-P. Leps: 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., S. Crewell: CLIWA-NET: Observation and modelling of liquid water clouds. pp. 149-150
- Meywerk, J., M. Quante, O. Sievers: Radar based remote sensing of cloud liquid water—application of various techniques—a case study. pp. 167-182
- Rose, T., S. Crewell, U. Löhnert, C. Simmer: A network suitable microwave radiometer for operational monitoring of the cloudy atmosphere. pp. 183-200
- Van Meijgaard, E., S. Crewell: Comparison of model predicted liquid water path with ground-based measurements during CLIWA-NET. pp. 201-226
- Willen, U., S. Crewell, H.K. Baltink, O. Sievers: 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

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

- Arpe, K., S. Hagemann, D. Jacob, E. Roeckner: The realism of the ECHAM5 models to simulate the hydrological cycle in the Arctic and North European area. pp. 349-368
- Isemer, H.-J., S.-E. Gryning, D. Rosbjerg: Preface - Special issue of Nordic Hydrology – 4 Study Conference on BALTEX. pp. 295-296
- Jakobson, E., H. Ohvri, O. Okulov, N. Laulainen: Variability of radiosonde-observed precipitable water in the Baltic region. pp. 423-433
- Kitaev, L., E. Førland, V. Razuvaev, O. E. Tveito, O. Krueger: Distribution of snow cover over Northern Eurasia. pp. 311- 320
- Kjellström, E., R. Döscher, H. E. M. Meier: Atmospheric response to different sea surface temperatures in the Baltic Sea: coupled versus uncoupled regional climate model experiments. pp. 397-410
- Kowalewska-Kalkowska, H., M. Kowalewski: Operational hydrodynamic model for forecasting extreme hydrographic events in the Oder Estuary. pp. 411-422
- Krysanova, V., F. Hattermann, A. Habeck: 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., C. Simmer: Derivation of a root zone soil moisture algorithm and its application to validate model data. pp. 335-348
- Omstedt, A., Y. Chen, K. Wesslander: A comparison between the ERA40 and the SMHI gridded meteorological databases as applied to Baltic Sea modelling. pp. 369-380
- Rutgersson, A., A. Omstedt and Y. Chen: Evaluation of the heat balance components over the Baltic Sea using four gridded meteorological databases and direct observations. pp. 381-396
- Sepp, M., P. Post, J. Jaagus: Long-term changes in the frequency of cyclones and their trajectories in Central and Northern Europe. pp. 297

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

- Ament, F., C. Simmer: Improved Representation of Land-surface Heterogeneity in a Non-hydrostatic Numerical Weather Prediction Model. pp. 153-174
- Bange, J., T. Spieß, M. Herold, F. Beyrich, B. Hennemuth: Turbulent fluxes from Helipod flights above quasi-homogeneous patches within the LITFASS area. pp. 127-151
- Beyrich, F., H. A. R. De Bruin, D. Etling, T. Foken: Preface: The LITFASS-2003 experiment. pp. 1-4
- Beyrich, F., H.-T. Mengelkamp: Evaporation over a Heterogeneous Land Surface: EVA_GRIPS and the LITFASS-2003 Experiment—An Overview. pp. 5-32
- Beyrich, F., J.-P. Leps, M. Mauder, J Bange, T. Foken, S. Huneke, H. Lohse, A. Lüdi, W.M. L. Meijninger, D.Mironov, U. Weissensee, P. Zittel: Area-Averaged Surface Fluxes Over the Litfass Region Based on Eddy-Covariance Measurements. pp. 33-65
- Heinemann, G., M. Kerschgens: Comparison of methods for area-averaging surface energy fluxes over heterogeneous land surfaces using high-resolution non-hydrostatic simulations. pp. 195-220
- Heret, C., A. Tittebrand, F. H. Berger: 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., W. M. L. Meijninger, H. A. R. Debruin, F. Beyrich: Saturation of the Large Aperture Scintillometer. pp. 111-126
- Mauder, M., C. Liebenthal, M. Göckede, J.-P. Leps, F. Beyrich, T Foken: Processing and quality control of flux data during LITFASS-2003. pp. 67-88
- Meijninger, W. M. L., F. Beyrich, A. Lüdi, W. Kohsiek, H. A. R. De. Bruin: Scintillometer-Based Turbulent Fluxes of Sensible and Latent Heat Over a Heterogeneous Land Surface – A Contribution to Litfass-2003. pp. 89-110

2.8 Boreal Environment Research, Vol. 14, No. 1, February 2009
5th Study Conference on BALTEX 2007, 23 papers

- Carlsson, B., Rutgersson, A. & Smedman, A.-S.: Investigating the effect of a wave-dependent momentum flux in a process oriented ocean model. pp. 3–17
- Gustafsson, E. O. & 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
- Jakobson, E., Ohvril, H. & Elgered, G.: Diurnal variability of precipitable water in the Baltic region, impact on transmittance of the direct solar radiation. pp. 45–55
- Lind, P. & Kjellström, E.: Water budget in the Baltic Sea drainage basin: Evaluation of simulated fluxes in a regional climate model. pp. 56–67
- Tedesco, L., Vichi, M., Haapala, J. & Stipa, T.: An enhanced sea-ice thermodynamic model applied to the Baltic Sea. pp. 68–80
- Bhend, J. & von Storch, H.: Is greenhouse gas forcing a plausible explanation for the observed warming in the Baltic Sea catchment area? pp. 81–88

- 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, K. S. & Højerslev, N. K.: Long-term temperature and salinity records from the Baltic Sea transition zone. pp. 125–131
- Saue, T. & Kadaja, J.: Simulated crop yield — an indicator of climate variability. pp. 132–142
- 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
- Graham, L. P., Olsson, J., Kjellström, E., Rosberg, J., Hellström, S.-S. & Berndtsson, R.: Simulating river flow to the Baltic Sea from climate simulations over the past millennium. pp. 173–182
- Kowalewska-Kalkowska, H. & Wisniewski, B.: Storm surges in the Odra mouth area during the 1997–2006 decade. pp. 183–192
- Kundzewicz, Z. W.: Adaptation to floods and droughts in the Baltic Sea basin under climate change. pp. 193–203
- Gryning, S. E., Soegaard, H. & Batchvarova, E.: Comparison of regional and ecosystem CO₂ fluxes. pp. 204–212
- Laanemets, J., Zhurbas, V., Elken, J. & Vahtera, E.: Dependence of upwelling-mediated nutrient transport on wind forcing, bottom topography and stratification in the Gulf of Finland: Model experiments. pp. 213–225
- Langner, J., Andersson, C. & Engardt, M.: Atmospheric input of nitrogen to the Baltic Sea basin: present situation, variability due to meteorology and impact of climate change. pp. 226–237
- Rutgersson, A., Norman, M. & Åström, G.: Atmospheric CO₂ variation over the Baltic Sea and the impact on air–sea exchange. pp. 238–249
- 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

2.9 Oceanologia, Vol. 53, (I-TI)/11, June 2011
6th Study Conference on BALTEX 2010, 16 papers

- Pempkowiak, J.: Changing water, energy and biogeochemical cycles in the Baltic Sea basin. Preface
- Meier, H. E. M., A. Höglund, R. Döscher, H. Andersson, U. Löptien, E. Kjellström: Quality assessment of atmospheric surface fields over the Baltic Sea from an ensemble of regional climate model simulations with respect to ocean dynamics. pp. 193–227

- Služenikina, J., A. Männik: A comparison of ASCAT wind measurements and the HIRLAM model over the Baltic Sea. pp. 229-244
- Päädam, K., P. Post: Temporal variability of precipitation extremes in Estonia 1961-2008. pp. 245-257
- Rimkus, E., J. Kažys, A. Bukantis, A. Krotovas: Temporal variation of extreme precipitation events in Lithuania. pp. 259-277
- Speranskaya, N. A.: 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., H. Baudler, B. Chubarenko, S. Navrotskaya: Long term water level and surface temperature changes in the lagoons of the southern and eastern Baltic. pp. 293-308
- Andrejev, O., T. Soomere, A. Sokolov, K. Myrberg: The role of the spatial resolution of a three-dimensional hydrodynamic model for marine transport risk assessment. pp. 309-334
- Soomere, T., A. Räämet: Spatial patterns of the wave climate in the Baltic Proper and the Gulf of Finland. pp. 335-371
- Wiśniewski, B., T. Wolski: 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., V. Zhurbas, J. Laanemets, J. Elken: Simulation of nutrient transport from different depths during an upwelling event in the Gulf of Finland. pp. 431-448
- Dzierzbicka-Głowacka, I., J. Jakacki, M. Janecki, A. Nowicki: Variability in the distribution of phytoplankton as affected by changes to the main physical parameters in the Baltic Sea. pp. 449-470
- Kostecki, R., B. Janczak-Kostecka: Holocene evolution of the Pomeranian Bay environment, southern Baltic Sea. pp. 471-487
- Zhang, W., J. Harff, R. Schneider: Analysis of 50-year wind data of the southern Baltic Sea for modeling coastal morphological evolution - a case study from the Darss-Zingst Peninsula. pp. 489-518

3. Peer-reviewed Journal Articles

- Achberger, C., M.-L. Linderson, D. Chen, 2003: Performance of the Rossby Centre regional Atmospheric model in Southern Sweden: comparison of simulated and observed. *Theoretical and applied Climatology* Vol. 76, pp. 219-234
- Achberger, C., D. Chen, H. Alexandersson, 2006: The surface winds of Sweden during 1999-2000, *Int. J. Climatology*, Vol. 26(2), pp. 159-178
- Achberger, C., J. E. Box, D. Chen, 2007: Nordic Region, in *State of the Climate in 2006*. Arguez, A., ed., *Bulletin of the American Meteorological Society*, Vol. 88, pp. 104-106
- Ahrens, B., U. Karstens, B. Rockel, R. Stuhlmann, 1998: On the validation of the atmospheric model REMO with ISCCP data and precipitation measurements using simple statistics. *Meteorology and Atmospheric Physics* Vol. 68, pp. 127-142
- Aigars, J.; Müller-Karulis, B.; Martin, G.; Jermakovs, V. (2008). Ecological quality boundary-setting procedures: the Gulf of Riga case study. *Environmental Monitoring and Assessment*, 138(1-3), 313 - 326.
- Alkan, Olsson, J., L. Andersson, 2007: Possibilities and problems with the use of models as a communication tool in water resource management. *Special Issue WARM / Advances in Global Change Research, Water Resources Management*, Vol. 21, pp. 97-110
- Almroth, E., Tengberg, A., Andersson, J. H., Pakhomova, S., and Hall, P.O.J. 2009. Effects of resuspension on benthic fluxes of oxygen, nutrients, dissolved inorganic carbon, iron and manganese in the Gulf of Finland, Baltic Sea. *Continental Shelf Research*, Vol 29, 807-818.
- Altınakar, M., Kiedrzyńska E., Magnuszewski A. 2006. Modelling of inundation pattern at Pilica river floodplain, Poland. In: Demuth S., Gustard A., Planos E., Scatena F. & Servat E. (Eds) *Climate Variability and Change—Hydrological Impacts*. IAHS Publ. 308. 579-585
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