

Minutes of
25th Meeting
of the
BALTEX Science Steering Group

held at

*Hotel Amber Baltic
Międzyzdroje, Poland*

13 June 2010

edited by

*Marcus Reckermann
and Hans-Jörg Isemer*



Participants at the 25th BALTEX Science Steering Group Meeting, from left to right: Janusz Pempkowiak, Valery Vuglinsky, Zbigniew W. Kundzewicz, Berit Arheimer, Anders Omstedt, Michael Lautenschlager, Hans-Jörg Isemer Bernd Schneider, Joakim Langner, Tapani Stipa, Marcus Reckermann, Andreas Lehmann. Not on the photo but present: Sirje Keevallik, Jüri Elken and Hans von Storch (via Skype)

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Summary of Decisions

DECISION 1: **Hans von Storch** of GKSS Research Centre Geesthacht was approved as new BSSG vice-chairman.

DECISION 2: For the rest of BALTEX Phase II (end of 2012), no new BSSG members should be appointed, unless deemed necessary for the conclusion of the current BALTEX Phase II.

DECISION 3: BALTEX SSG chairman **Joakim Langner** and vice chairmen **Anders Omstedt** and **Hans von Storch** will form a task group on POSTBALTEX

Summary of Action Items

Action Item 1 to **Marcus Reckermann** and **Michael Lautenschlager** to implement an easier online licensing system for data users to get access to BALTEX data. This system should involve an easy online procedure. Approval of data users by BSSG members will not be necessary.

Action Item 2 to Joakim Langner, Anders Omstedt and Hans von Storch **to form a** task group to identify potential collaboration options towards defining POSTBALTEX concerning stakeholders and scientific programmes in the Baltic Sea region as well as regional efforts outside the Baltic Sea area. The task group will elaborate types of actions (e.g. workshops, meetings, polls), and the timing of actions until the next BSSG meeting in Göteborg, 23-25 November 2010.

Appendices

Appendix 1: BSSG #25 meeting agenda

Appendix 2: Participants of the meeting

Introduction

The 25th meeting of the BALTEX Science Steering Group (BSSG) was held on 13 June 2010 between 2 pm and 6 pm, in conjunction with the 6th Study Conference on BALTEX at the Hotel Amber Baltic in Międzyzdroje, Poland. Conducted as a half-day meeting, the agenda was short and involved only two major items: the wrap-up of BALTEX phase II and the future of BALTEX after 2012.

Opening and welcome

Joakim Langner, BSSG chairman opened the meeting by welcoming the meeting participants (Appendix 2). As with Tapani Stipa, a new BSSG member was present on this day, all members present shortly introduced themselves.

TOPIC 1: Organisational issues

1.1 Approval of the agenda

The agenda for the 25th BSSG meeting (Appendix 1) was approved with a change of sequence of “TOPIC 2: Concluding BALTEX Phase II 2011-2012” (now TOPIC 3) and “TOPIC 3: BALTEX after 2012 (“POSTBALTEX””, now TOPIC 2, and the addition of a short statement by Anders Omstedt at the end of the meeting.

1.2 Approval of the previous BALTEX SSG meeting minutes

The minutes of the 24th BSSG meeting were unanimously approved. Michael Lautenschlager commented on Action Item 1 and Decision 3 of the BSSG #24 Meeting minutes, that a transfer of databases from SMHI to WDCC will require more time but is on its way. Marcus and Michael will implement an easier online access system for data users.

Action Item 1 to Marcus Reckermann and Michael Lautenschlager to implement an easier online licensing system for data users to get access to BALTEX data. This system should involve an easy online procedure. Approval of data users by BSSG members will not be necessary.

1.3 BALTEX SSG membership changes

Hans von Storch, Director at the Institute of Coastal Research at GKSS Research Centre in Geesthacht and Professor at the University of Hamburg, was nominated as successor to Timo Vihma in the capacity of a BSSG vice chairman. Hans has been BSSG member since October 2005 and has made significant contributions to the BALTEX programme, above all the BACC book. Hans was unanimously approved as new vice chairman of the BALTEX Science Steering Group.

DECISION 1: Hans von Storch of GKSS Research Centre Geesthacht was approved as new BSSG vice-chairman.

Prior to the meeting, **Dan Rosbjerg** had indicated his wish to resign from the BSSG. The BSSG noted this with regret, and expressed its appreciation to Dan for his numerous contributions to the steering of the BALTEX programme.

Furthermore it was decided that, until further decisions, there shall be no new BSSG members nominated, also if existing members resign. This decision may be reassessed as necessary.

DECISION 2: For the rest of BALTEX Phase II (end of 2012), no new BSSG members should be appointed, unless deemed necessary for the conclusion of the current BALTEX Phase II or the initialization of a follow-up program to BALTEX after 2012.

TOPIC 2: BALTEX after 2012 (“POSTBALTEX”)

BALTEX Phase II is scheduled to end in 2012. The BSSG discussed possible options and strategies for the time after 2012. In order to keep communication easy and short, and also in order to avoid predetermining either themes nor formats, a potential follow-up program (or network) to BALTEX Phase II after 2012 was referred to as “**POSTBALTEX**”.

The discussion on possible options for POSTBALTEX was open and vivid. The discussion will be summarized below along the list of questions which was established by the BSSG chairs prior to the meeting:

- a. *Would POSTBALTEX have a truly regional scope, based on issues primarily defined from a regional point-of-view, or would it represent the regional “mirror” of the perspectives and objectives of any global programme?*

The regional aspect was considered crucial for POSTBALTEX. In this sense, POSTBALTEX should remain a truly regional network dealing with topics and issues specific and relevant for the Baltic Sea basin. In other words, the number one priority approach for defining POSTBALTEX shall be the issues relevant for or in the Baltic Sea basin. On the other hand, it may be adverse if POSTBALTEX would remain isolated at the international level. An active networking with similar programmes or regional networks would be advisable. The BALTEX-GEWEX example was highlighted as a past successful networking approach in the above sense. POSTBALTEX should reach out to similar regional networks in other regions of the world in order to contribute to forming a “network of regional networks”. It was noted that POSTBALTEX would probably be particularly specific for the Baltic Sea region, hence, a carefully conducted analysis needs to be undertaken to identify global or continental-scale programs suitable for a mutual beneficial networking. In this, societal needs should be taken into account. The question whether the geographic area of interest for POSTBALTEX should be extended to other areas like Skagerrak or even the whole North Sea was briefly taken up but not favourably discussed.

- b. *Will it be crucial to investigate how the national institutes and services in countries of the Baltic Sea Basin might be positioned towards POSTBALTEX?*

A strong backbone of the current BALTEX has been the involvement and engagement of the HydroMet services in the region, such as SMHI, FMI, EMHI, DMI, DWD and IMGW. The question was discussed which interest, motivation and expectations these institutions would have in a POSTBALTEX programme. The question arose whether a Baltic Sea basin-wide programme dedicated to “Climate Services” would be of benefit for the institutions and what their attitude would be to such a programme. It was discussed

which way the institutions should be involved. It was suggested that institutions would have to be approached before a detailed plan is elaborated to allow institutions to play a part in the design of the new programme, indicating their views and expectations (“market analysis”). Other regional programmes which POSTBALTEX could collaborate with could be approached in the same way.

Action: National hydro-met Services should be informally contacted to learn about their plans and priorities relevant for POSTBALTEX within the coming decade,

- c. *Depending on any answer to the question indicated under a., international both global and regional research programmes like e.g. GEWEX, LOICZ, HyMEX and NEESPI, may be involved and contacted in the process of defining POSTBALTEX.*

It should be investigated in how far a collaboration or involvement in GEWEX would be reasonable for POSTBALTEX. GEWEX will end in 2013 and plans for a follow-up program (referred to as GREW at present) are somehow vague at present. A close collaboration of POSTBALTEX and GREW will therefore largely depend on the profile of GREW and is difficult to assess at present. An involvement in IGBP and LOICZ as well as a close collaboration with sister programmes like NEESPI and HYMEX and other regional networks worldwide to form a “network of regional networks”, was favourably discussed. Action: An inventory of international programs relevant in the context of defining POSTBALTEX should be undertaken in due time.

It was also noted, that major **research institutions** in the region must be contacted – in addition to services and international programs mentioned under a. and b. – to consider and integrate to the extent possible and useful any medium or long-term research interests of the latter into POSTBALTEX. Candidate institutions were mentioned, but an action item would be to establish a relevant list of research institutions in due time and negotiate on options for POSTBALTEX.

- d. *The relation to relevant organisations like HELCOM (i.e. stakeholder community, there may be more of them, such as BSSSC) and BONUS (i.e. a major funding source) will have to be investigated.*

The three BALTEX projects AMBER, Baltic-C and ECOSUPPORT, all funded by BONUS, were considered crucial present BALTEX constituents. The programme has expanded towards the integration of various disciplines including biogeochemistry and matter cycles on land and in the Baltic Sea, however, it was noted that it has not yet arrived at a truly Earth system research programme yet. BONUS will remain an important partner and source for funding in the future. A possible collaboration with HELCOM, BSSSC or other regional programmes needs to be investigated.

- e. *Political developments at the European level may need thoughtful consideration.*

This topic was only shortly addressed. As to relevant policies, the Baltic Sea Action Plan (BSAP) was considered as one key political frame, where POSTBALTEX could contribute to. This was considered particularly relevant because the present version of the BSAP apparently lacks considerations related to climate change. A further obviously relevant policy is the EU’s White Paper on “Adapting to climate change: Towards a European Framework for Action” which might be seen as a forerunner to a future EU Directive related to adaptation to climate change. The “macro-region” concept of the

European Union was also mentioned, where the Baltic Sea region is obviously regarded as a successful pilot. POSTBALTEX could play an important role for environmental aspects of the Baltic Sea macro region.

f. Format of POSTBALTEX

In addition to the question of thematic priorities to be addressed, the format of POSTBALTEX needs consideration. Is it appropriate to organize POSTBALTEX as a programme with dedicated science and implementation plans (as with BALTEX Phases I and II), or is another format (open network or the like) the appropriate format? This question would have to be discussed in close relation to the discussion on thematic priorities. No decision or priority solution was decided at this stage.

Further suggestions regarding POSTBALTEX were made by group members, as follows:

The process of defining POSTBALTEX should be organised both top-down and bottom-up. As a contribution to the latter, questionnaires should be sent out to institutions and individuals prior to defining POSTBALTEX.

POSTBALTEX should continue including major aspects of the land part of the Baltic Sea region, rather than narrowing its objectives to marine issues exclusively.

Adapting to climate change is becoming more and more important in all countries of the Baltic Sea region. Related research projects – at both national and international levels - are increasingly being undertaken and POSTBALTEX should include aspects of adaptation to climate change.

Biogeochemical cycles in the earth system should stay on the POSTBALTEX agenda. In this context, stronger connections to IGBP and relevant regional programs therein should be explored.

POSTBALTEX should improve its connections and contributions to international/global data bases.

Scientific assessments, following a well defined and accepted protocol, should become a stronger component in POSTBALTEX. BACC was mentioned as a prototype example. These assessments could be either conducted in a more ad-hoc manner, on limited areas, to be conducted by smaller working groups, or covering a major research area or topic, such as BACC, with the necessary required resources in terms of time and man power.

Action Item 2 to Joakim Langner, Anders Omstedt and Hans von Storch **to form a task group** to identify potential collaboration options towards defining POSTBALTEX concerning stakeholders and scientific programmes in the Baltic Sea region as well as regional efforts outside the Baltic Sea area. The task group will elaborate types of actions (e.g. workshops, meetings, polls), and the timing of actions until the next BSSG meeting in Göteborg, 23-25 November 2010.

TOPIC 3: Concluding BALTEX Phase II 2011-2012

Given the scheduled end of BALTEX Phase II in 2012, this topic was alluding to how the achievements of BALTEX Phase II may be synthesized, assessed and communicated in an appropriate and visible manner.

It was noted that analysing and assessing past BALTEX achievements would at the same time identify possible remaining gaps and future candidate science priorities which, in turn, would help defining aspects of POSTBALTEX.

The BACC report was considered exemplary in two ways: The format as a book as a highly visible outreach component, and secondly the assesment character, which implies that not only original results of BALTEX were considered, but the achievements and the state-of-the-art for an entire research domain. A possible way to conclude BALTEX Phase II would therefore be the establishment of one “review of the state-of-the-art” (or, “assessment”) report per major BALTEX Phase II objective, i.e. one for i) water and energy cycles, ii) climate variability and change since 1800, iii) water management and extreme events, iv) bio-geochemical cycles, all dedicated to the Baltic Sea Basin. The exact thematic areas need to be carefully defined; it could be possible to confine the BALTEX assessments to dedicated subsets of the above major 4 objectives. Following BACC, these reports should not be confined to original BALTEX achievements but should rather claim to constitute an overall thematic state-of-the-art review for the particular thematic priority in question. In this context, BACC II could be the relevant report for the second objective of BALTEX Phase II related to climate change, labeled ii) above. These reports could include a related impact or outreach part relevant for stakeholders. They should be designed to be published as one book per selected theme. Accompanying review papers in reviewed journals could be organised as a syntheses of the full book (report) contents. Flyers shortly presenting the main BALTEX Phase II results could be a simple and effective means of attracting attention for more comprehensive publication(s).

The group discussed the above suggestion as one possibility where the following challenges would need to be addressed: 1) a careful definition of the thematic domain covered by each report, which could well be confined to only a part of the BALTEX phase II objective, 2) the identification of an enthusiastic group of lead authors, including its chair, to organise the process.

At the BSSG meeting #26 (Göteborg), the format and authors for the BALTEX phase II final synthesis reports, as outlined above, would have to be identified.

The following International Study Conference on BALTEX (which would be the 7th BALTEX conference) shall be conducted in 2013 with an overall objective to present a synthesis of results and achievements of BALTEX Phase II. Possibilities should be explored to raise the interest of relevant stakeholders for active participation.

TOPIC 4: Place and time of the next BSSG meeting

The next BSSG meeting (BSSG #26) will take place at the **University of Gothenburg, Sweden, on 23-25 November 2010**. It was suggested to organize a meeting of the BACC II lead authors in conjunction with BSSG26.

TOPIC 5: Any other business

Anders Omstedt shortly honoured Hans-Jörg Isemer at the occasion of the 25th BSSG meeting. Hans-Jörg had been representing the International BALTEX Secretariat over the vast majority of the past 25 BSSG meetings. On behalf of the BSSG, Anders thanked Hans-Jörg for his contribution to managing BALTEX over the years and expressed the hope that he may be continuing for the remainder of the running BALTEX Phase II, and beyond.

Some Abbreviations and Acronyms

AMBER	Assessment and Modelling of Baltic Ecosystem Response
BACC	BALTEX Assessment of Climate Change for the Baltic Sea basin
Baltic-C	Building predictive capability regarding the Baltic Sea organic/inorganic carbon and oxygen systems
BONUS	Baltic Organisations Network for Funding Science EEIG
BSAP	Baltic Sea Action Plan
BSSG	BALTEX Science Steering Group
DMI	Danish Meteorological Institute
DWD	German Weather Service
ECOSUPPORT	Advanced tool for scenarios of the Baltic Sea ECOSystem to SUPPORT decision making
EMHI	Estonian Meteorological and Hydrological Institute
FMI	Finnish Meteorological Institute
GEWEX	Global Energy and Water Cycle Experiment
GKSS	GKSS Research Centre Geesthacht, Germany
GREW	Global and Regional Energy and Water project
HELCOM	Helsinki Commission
HyMex	HYdrological Cycle in the Mediterranean EXperiment
IMGW	Institute of Meteorology and Water Management, Poland
IGBP	International Geosphere-Biosphere Programme
LOICZ	Land Ocean Interactions in the Coastal Zone
NEESPI	The Northern Eurasia Earth Science Partnership Initiative
POSTBALTEX	The potential BALTEX successor after 2012
SSC	Science Steering Committee
SMHI	Swedish Meteorological and Hydrological Institute
WDCC	World Data Centre for Climate

Appendix 1: BSSG #25 meeting agenda**25th BALTEX SSG Meeting****Hotel Amber Baltic
Międzyzdroje, Poland****13 June 2010****AGENDA AND EXPLANATORY MEMORANDUM**

(as of 11 June 2010)

This BALTEX Science Steering Group (BSSG) meeting is held in conjunction with the 6th Study Conference on BALTEX. It is a short interim meeting to address important issues which need consideration at this point of time between two major BSSG meetings. An overall maximum duration of 4 hours is expected to be sufficient in order to address the agenda's topics in due time.

Sunday, 13 June 2010**14:00 Welcome by the Chairman****TOP 1: Organisational issues**

- 1.1 Approval of the agenda
- 1.2 Approval of the previous BALTEX SSG meeting minutes
- 1.3 BALTEX SSG Membership changes

1.3.1 Hans von Storch has been suggested as a **new vice-chair** of the BSSG, following Timo Vihma's withdrawal earlier this year. BSSG shall reach a decision on this suggestion.

1.3.2 Dan Rosbjerg resigned from the BSSG. Possible requirements for a suitable successor will have to be discussed.

TOP 2: Concluding BALTEX Phase II 2011-2012

BALTEX Phase II is scheduled to close in 2012. The discussion under this topic is expected to reveal major actions towards completion of phase II of the programme. Relations and cooperation with other ongoing projects and programmes as well as suitable means and actions to summarize achievements and results of BALTEX phase II need to be addressed. A first version of a roadmap "**Concluding BALTEX phase II 2011-2012**" is expected to be established. Whenever possible, the relevant responsible actors for individual actions should be identified and determined.

15:30 ***Health Break***

16:00 **TOP 3: BALTEX after 2012**

Given that BALTEX Phase II will close in 2012, the discussion on the profile of any follow-up program should be initiated still in 2010. In order to keep communication easy and short, and also in order to avoid predetermining neither themes nor formats, we refer to a potential follow-up program (or network) to BALTEX Phase II after 2012 as “**POSTBALTEX**”.

This meeting shall primarily discuss and decide on suitable actions (including timing) which appear to be necessary to conclude on both thematic profile and format of POSTBALTEX. An action roadmap for 2010-2012 towards defining POSTBALTEX is to be set up addressing

- type of actions (e.g. workshops, meetings, polls)
- timing of actions
- a list of relevant bodies, projects and programmes to be addressed

Whenever possible, the relevant responsible actors for individual actions should be determined.

The following initial draft list of questions was established by the BSSG chairs as a first guide to the discussion:

- a. Would POSTBALTEX have a truly regional scope, based on issues primarily defined from a regional point-of-view, or would it represent the regional “mirror” of the perspectives and objectives of any global programme?
- b. It will be crucial to investigate how the important national institutes and services like SMHI, FMI, DMI, and national services in other countries such as Poland and Estonia (EMHI) might be positioned towards POSTBALTEX?
- c. Depending on any answer to the question indicated under a., international both global and regional programmes like e.g. GEWEX, LOICZ, HyME_x and NEESPI, may be involved and contacted in the process of defining POSTBALTEX.
- d. The relation to relevant organisations like HELCOM (i.e. stakeholder community, there may be more of them, such as BSSSC) and BONUS (i.e. a major funding source) will have to be investigated.
- e. Developments at the European level (FP7, FP8, the European macro-region concept, and the like) may need thoughtful consideration.
- f. In addition to the question of thematic priorities to be addressed, the format of POSTBALTEX may need consideration. For example: Is it appropriate to organize POSTBALTEX as a programme with dedicated science and implementation plans (as with BALTEX Phases I and II), or is another format (open network or the like) the appropriate format? This question would have to be discussed on close relation to the discussion on thematic priorities.

TOP 4: Place and timing of next BSSG meeting

TOP 5: Any other business

18:00 **Closing of the meeting**

Appendix 2: List of participants

Berit Arheimer
Jüri Elken
Hans-Jörg Isemer
Sirje Keevallik
Zbigniew Kundzewicz
Joakim Langner
Michael Lautenschlager
Andreas Lehmann
Anders Omstedt
Janusz Pempkowiak
Marcus Reckermann
Bernd Schneider
Tapani Stipa
Hans von Storch (*via Skype*)
Valery Vuglinsky

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- No. 1:** Minutes of First Meeting of the BALTEX Science Steering Group held at GKSS Research Centre in Geesthacht, Germany, 16-17 May, 1994. August 1994.
- No. 2:** Baltic Sea Experiment BALTEX – Initial Implementation Plan, 84 pages. March 1995.
- No. 3:** First Study Conference on BALTEX, Visby, Sweden, August 28 – September 1, 1995. Conference Proceedings. Editor: A. Omstedt, SMHI Norrköping, Sweden, 190 pages. August 1995.
- No. 4:** Minutes of Second Meeting of the BALTEX Science Steering Group held at Finnish Institute of Marine Research in Helsinki, Finland, 25-27 January, 1995. October 1995.
- No. 5:** Minutes of Third Meeting of the BALTEX Science Steering Group held at Strand Hotel in Visby, Sweden, September 2, 1995. March 1996.
- No. 6:** BALTEX Radar Research – A Plan for Future Action, 46 pages. October 1996.
- No. 7:** Minutes of Fourth Meeting of the BALTEX Science Steering Group held at Institute of Oceanology PAS in Sopot, Poland, 3-5 June, 1996. February 1997.
- No. 8:** *Hydrological, Oceanic and Atmospheric Experience from BALTEX*. Extended Abstracts of the XXII EGS Assembly, Vienna, Austria, 21-25 April, 1997. Editors: M. Alestalo and H.-J. Isemer, 172 pages. August 1997.
- No. 9:** The Main BALTEX Experiment 1999-2001 – *BRIDGE*. Strategic Plan, 78 pages. October 1997.
- No. 10:** Minutes of Fifth Meeting of the BALTEX Science Steering Group held at Latvian Hydro-meteorological Agency in Riga, Latvia, 14-16 April, 1997. January 1998.
- No. 11:** Second Study Conference on BALTEX, Juliusruh, Island of Rügen, Germany, 25-29 May 1998. Conference Proceedings. Editors: E. Raschke and H.-J. Isemer, 251 pages. May 1998.
- No. 12:** Minutes of 7th Meeting of the BALTEX Science Steering Group held at Hotel Aquamaris in Juliusruh, Island of Rügen, Germany, 26 May 1998. November 1998.
- No. 13:** Minutes of 6th Meeting of the BALTEX Science Steering Group held at Danish Meteorological Institute in Copenhagen, Denmark, 2-4 March 1998. January 1999.
- No. 14:** BALTEX – BASIS Data Report 1998. Editor: Jouko Launiainen, 96 pages. March 1999.
- No. 15:** Minutes of 8th Meeting of the Science Steering Group held at Stockholm University in Stockholm, Sweden, 8-10 December 1998. May 1999
- No. 16:** Minutes of 9th Meeting of the BALTEX Science Steering Group held at Finnish Meteorological Institute in Helsinki, Finland, 19-20 May 1999. July 1999.

- No. 17:** Parameterization of surface fluxes, atmospheric planetary boundary layer and ocean mixed layer turbulence for BRIDGE – What can we learn from field experiments? Editor: Nils Gustafsson. April 2000.
- No. 18:** Minutes of 10th Meeting of the BALTEX Science Steering Group held in Warsaw, Poland, 7-9 February 2000. April 2000.
- No. 19:** BALTEX-BASIS: Final Report, Editors: Jouko Launiainen and Timo Vihma. May 2001.
- No. 20:** Third Study Conference on BALTEX, Mariehamn, Island of Åland, Finland, 2-6 July 2001, Conference Proceedings. Editor: Jens Meywerk, 264 pages. July 2001.
- No. 21:** Minutes of 11th Meeting of the BALTEX Science Steering Group held at Max-Planck-Institute for Meteorology in Hamburg, Germany, 13-14 November 2000. July 2001.
- No. 22:** Minutes of 12th Meeting of the BALTEX Science Steering Group held at Royal Netherlands Meteorological Institute (KNMI), De Bilt, The Netherlands, 12-14 November 2001. April 2002.
- No. 23:** Minutes of 13th Meeting of the BALTEX Science Steering Group held at Estonian Business School (EBS), Centre for Baltic Studies, Tallinn, Estonia, 17-19 June 2002. September 2002.
- No. 24:** The eight BALTIMOS Field Experiments 1998-2001. Field Reports and Examples of Measurements. Editors: Burghard Brümmer, Gerd Müller, David Schröder, Amélie Kirchgäßner, Jouko Launiainen, Timo Vihma. 138 pages. April 2003.
- No. 25:** Minutes of 14th Meeting of the BALTEX Science Steering Group held at Lund University, Department of Physical Geography and Ecosystems Analysis, Lund, Sweden, 18 - 20 November 2002. May 2003.
- No. 26:** CLIWA-NET: BALTEX BRIDGE Cloud Liquid Water Network. Final Report. Editors: Susanne Crewell, Clemens Simmer, Arnout Feijt, Erik van Meijgaard, 53 pages. July 2003.
- No. 27:** Minutes of 15th Meeting of the BALTEX Science Steering Group held at Risø National Laboratory, Wind Energy Department, Roskilde, Denmark, 8 - 10 September 2003. January 2004.
- No. 28:** Science Plan for BALTEX Phase II 2003 – 2012. February 2004, 43 pages.
- No. 29:** Fourth Study Conference on BALTEX, Gudhjem, Bornholm, Denmark, 24 - 28 May 2004, Conference Proceedings. Editor: Hans-Jörg Isemer, 189 pages. May 2004.
- No. 30:** Minutes of 16th Meeting of the BALTEX Science Steering Group held at Gudhjem Bibliotek, Gudhjem, Bornholm, Denmark, 23 May 2004. October 2004.
- No. 31:** BALTEX Phase I 1993-2002 – State of the Art Report. Editors: Daniela Jacob and Anders Omstedt, 181 pages, October 2005.
- No. 32:** Minutes of 17th Meeting of the BALTEX Science Steering Group held at Poznan, Poland, 24 – 26 November 2004. November 2005.
- No. 33:** Minutes of 18th Meeting of the BALTEX Science Steering Group held at Meteorological Observatory Lindenberg – Richard Aßmann Observatory, Germany, 18 – 20 October 2005. February 2006.

- No. 34:** BALTEX Phase II 2003 – 2012 Science Framework and Implementation Strategy, 95 pages. April 2006.
- No. 35:** BALTEX Assessment of Climate Change for the Baltic Sea Basin. Summary. Editors: The BACC lead author group, 26 pages. June 2006.
- No. 36:** Minutes of 19th Meeting of the BALTEX Science Steering Group held at Ågrenska Villan of Göteborg University Sweden, 23 – 24 May 2006. October 2006.
- No. 37:** Minutes of 20th Meeting of the BALTEX Science Steering Group held at St. Petersburg, Russia, 6 – 7 December 2006. March 2007.
- No. 38:** Fifth Study Conference on BALTEX, Kuressaare, Saaremaa, Estonia, 4 - 8 June 2007. Conference Proceedings. Editor: Hans-Jörg Isemer, 209 pages. May 2007.
- No. 39:** Minutes of 21st Meeting of the BALTEX Science Steering Group held at Kuressaare, Saaremaa, Estonia, 3 June 2007. September 2007.
- No. 40:** Minutes of 22nd Meeting of the BALTEX Science Steering Group held at SMHI, Norrköping, Sweden, 23-25 January 2008. May 2008.
- No. 41:** 2nd International Lund RCM Workshop: 21st Challenges in Regional-scale Climate Modelling. Lund University, 4-8 May 2009. Workshop Proceedings. Editors: Burkhardt Rockel, Lars Bärring and Marcus Reckermann. 292 pages, April 2009.
- No. 42:** International Conference on Climate Change – The environmental and socio-economic response in the southern Baltic region. University of Szczecin, 25-28 May 2009. Conference Proceedings. Editors: Andrzej Witkowski, Jan Harff and Hans-Jörg Isemer. 140 pages, May 2009.
- No. 43:** Minutes of 23rd Meeting of the BALTEX Science Steering Group held at Finnish Meteorological Institute, Helsinki, Finland, 12 - 14 January 2009. July 2009.
- No. 44:** BALTEX Phase II 2003 – 2012 Revised Objectives. A Summary Amendment to the BALTEX Phase II Science Framework and Implementation Plan. 23 pages. November 2009.
- No. 45:** Minutes of 24th Meeting of the BALTEX Science Steering Group held at the University of Riga, Riga, Latvia, 16 - 18 November 2009. March 2010.
- No. 46:** Sixth Study Conference on BALTEX, Miedzyzdroje, Wolin, Poland, 14 - 18 June 2010. Conference Proceedings. Editor: Marcus Reckermann and Hans-Jörg Isemer, 182 pages. June 2010.
- No. 47:** Minutes of 25th Meeting of the BALTEX Science Steering Group held at the Hotel Amber Baltic, Międzyzdroje, Poland, 13 June 2010. September 2010.

Copies are available upon request from the International BALTEX Secretariat.