

5th and final BALTIC GAS workshop

Aarhus University, Denmark

1 - 3 November, 2011

Tuesday, Nov. 1st at 9:00: Start of workshop

Meeting point: Aarhus University, Department of Bioscience, Ny Munkegade 114, Building 1540, 2nd floor, meeting room 229 (see map - you will be guided at the entrance to building 1540).

The overall plan for the three days of the workshop is:

- overview information from the coordinators
- presentation by participants of new results and summary of main results
- overview and presentation of deliverables by coordinators and participants
- discussion in plenum and in groups of the science, the publications, and the further research and exploitation of the results

The meeting will start at 9 am every morning and end late afternoon. On Thursday, Nov. 3rd, the official end of the workshop is at 1 pm, but rooms have been reserved so that you can continue with science discussions during the rest of the day. There will be coffee breaks in the morning and afternoon. We will have lunch together in the local university canteen, paid by the Center for Geomicrobiology.

--- AGENDA---

Tuesday, Nov. 1st at 9:00

Welcome (*Bo Barker Jørgensen*)

... to the BALTIC GAS workshop by your host and BALTIC GAS coordinator

Updating of action list (*Henrik Fossing*)

The (attached) action list is updated and supplied with deadlines for 'actions' not met yet. Please check you 'duties' before the workshop. The action list will be adjusted during the workshop and 'by the end' consensus is taken about TASKs to be added to the list.

The final (Y3) BALTIC GAS scientific Report (*Henrik Fossing*)

The BALTIC GAS coordinators will submit this report no later than December 22, 2011. The final report is expected to be delivered in a similar form as the previous reports, however with two additional headings: (1) Executive summary and (2) Further research and exploitation of the results.

Henrik gives an overview of the reporting procedure and emphasizes the responsibility of the coordinator, the work package (WP-)leaders, and the task responsables (TR). Further, you will be reminded of the time schedule for the process agreed on at the workshop in Kaliningrad that has set December 1st as the deadline for the WP-leaders to submit their contribution to the coordinators.

The WP-leaders should notice that each of the 5 WPs consists of 2 – 5 tasks (in total 17 tasks, each one 'headed' by a TR; see attached Gantt chart B). It is the responsibility of the WP-leaders (in cooperation with the TRs) in The final (Y3) BALTIC GAS scientific report to document that these tasks have been accomplished.

In plenum we will discuss

- *how to secure that the deadline of December 1st can be met,*
- *how to present the central messages from the Deliverables in the final report,*
- *how to handle and present accomplished tasks not covered by the Deliverables,*
- *how to present results, observations and new knowledge in general and point to exploitation of this and to further research.*

Submission of data to PANGAEA (Henrik Fossing)

This task covers Deliverable 1.4 and has until November 1 been taken care of by Henrik. However, after this deadline the Principal Scientists (PS) must handle the data submission themselves. The good news are that it was recently made possible to submit data online to Pangaea in combination with a so called "ticket system" at <http://www.pangaea.de/submit/>. All you need is to sign up for a user account, get your password, follow the guidelines, and you are in business.

Henrik gives an overview of data that have been submitted to PANGAEA and data that still need to be handled...by yourself.

New results, gained knowledge, new ideas etc. (Principal Scientists & co-workers)

The PS are asked to organize the presentations from their own institution to secure that new results, gained knowledge and new ideas are presented and discussed. Please keep your presentation within 30 min, or preferably less, plus time for discussion.

And this time we do it in reverse order to please the modellers :o)

- Pierre Regnier (Utrecht University)
- Volkhard Spiess (University of Bremen)
- Jørn Bo Jensen (Geological Survey of Denmark and Greenland)
- Michael Schlüter (Alfred-Wegener-Institute of Polar and Marine Research)
- Maja Reinholdsson (Lund University)
- Zygmunt Klusek (Polish Academy of Science)
- Nikolay Pimenov (Russian Academy of Sciences)
- Volker Brüchert (Stockholm University)
- Gregor Rehder (Baltic Sea Research Institute Warnemünde)
- Tim Ferdelman (Max Planck Institute for Marine Microbiology)
- Bo Barker Jørgensen (Department of Biological Sciences, Aarhus University)

BALTIC GAS – ‘the oral examination’ (Henrik Fossing)

BALTIC GAS is soon about to end and so are the 15 other BONUS+ programs that started in 2009. Therefore, the BONUS Secretariat has organized two meetings (October 24 in Gdansk and November 8 in Brussels) where the latest knowledge produced by the BONUS+ projects is presented to stakeholders, end users, and the European Community. To these events the coordinator has prepared a ‘Briefing document’ and a ‘Poster’ that document the outcome and gained results of BALTIC GAS (available on the Baltic Gas home page).

At the BONUS Forum 2011 Meeting in Gdansk Henrik gave a 7 min long (or more correct ‘short’) presentation of BALTIC GAS results to the non-scientific audience and participated in a panel discussion with the headline: What can be learned from the past – and future scenarios – of the Baltic Sea?

Pierre Regnier will represent BALTIC GAS at The BONUS+ highlights for the European Community in Brussels in a panel discussion comprising questions and answers to the

BONUS+ projects.

Henrik will summarize The BALTIC GAS presentation from the BONUS Forum 2011 Meeting and report from the panel discussion and will also elaborate on the expectations to the Deliverables that the BONUS Secretariat and stakeholders expressed at the meeting. See also

http://www.bonusportal.org/events/bonus_forum_2011/

At this workshop BALTIC GAS should also come up with 2-3 questions reg. the future development of the Baltic Sea – questions that have all been answered during our project. These questions must be forwarded the BONUS secretariat by November 3rd in their preparation for the meeting in Brussels. See also

http://www.bonusportal.org/events/bonus_highlights_seminar/

Wednesday, Nov. 2nd at 9:00

BALTIC GAS Deliverables (all Deliverable Responsibles)

We have just reached the deadline of the BALTIC GAS Deliverables (November 1st) and it is time to review the progress and discuss the outcome of these Deliverables. Thus scientists responsible for the Deliverables are asked to present

- the content of the Deliverable with focus on results, gained knowledge, and new ideas
- 2- 3 illustrations (graphs, photos, etc.) that will be presented on the BALTIC GAS homepage – and please note that management-related examples will be highly appreciated by BONUS+

Again the presentations are done in reverse order!

- Deliverable 5.2: Predictive model and climate change scenarios (type of delivery: model/ scientific report) Pierre Regnier
- Deliverable 4.3: Holocene evolution of the Baltic Sea ecosystem (type of delivery: scientific report/ technical report) Maja Reinholdsson
- Deliverable 4.2: Methane emission through sediment-water and sea-air interfaces (type of delivery: scientific report/ technical report) Volker Brüchert
- Deliverable 4.1: Methane distributions and breakdown (scientific report/ technical report) Tim Ferdelman
- Deliverable 3.3: Detection and monitoring of methane ebullition (type of delivery: scientific report/ technical report) Jens Schneider
- Deliverable 3.2: Identification of zones of potential weakness under the external forcing of climate change and eutrophication for future political and hazard prevention measures (type of delivery: scientific report/ technical report) Gregor Rehder
- Deliverable 3.1: Mapping of shallow gas and physical characterisation of gas bearing sediments (responsible for this deliverable) Jørn Bo Jensen
- Deliverable 2.3: GIS-map of hot-spots of present and future CH₄-emission (type of delivery: scientific report/ technical report) Michael Schlüter
- Deliverable 2.2: GIS-map of methane flux and distribution in sediments (type of delivery: scientific report/ technical report) Michael Schlüter
- Deliverable 2.1: GIS-map of mined data (type of delivery: scientific report/ technical report) Jørn Bo Jensen

Additionally two Deliverables constitute

- Deliverable 5.3: Submitted MS on: Integration gas, acoustics and

biogeochemistry (type of delivery: scientific publication) Bo Barker Jørgensen

- *Deliverable 4.4: Submitted MS on: Sulphur and methane biogeochemistry (type of delivery: scientific publication).*

The latter deliverable poses no problem as several submitted (and published?) papers have already completed this deliverable.

BALTIC GAS –science pure (Bo Barker Jørgensen)

Publications document the scientific outcome of BALTIC GAS. What is out and what is planned?

First a discussion in plenum of how to organize and integrate the results for publications and for communication to the public.

The afternoon is reserved for group discussions of results and how to coordinate the data. Please bring all your data and information needed to make this as efficient and productive as possible.

Thursday, Nov. 3rd at 9:00

Action list (Henrik Fossing)

An action list based on the minutes from the BALTIC GAS workshop is presented and consensus is (hopefully) reached about tasks and dead-lines.

Miscellaneous (Henrik Fossing)

Any important issues forgotten? – then please tell me!

BALTIC GAS science

Presentation in plenum of preliminary plans for how to combine and publicise the results

The need to integrate with data from other BONUS projects or from other sources should be considered and the contact persons identified

Continuation in groups on data preparation, coordination, presentation, and publication.

'Lights out' (Bo Barker Jørgensen)

The coordinator takes the retrospective glasses on and sums up the general outcome of BALTIC GAS. What did we promise, what was planned, and how did we succeed? What was the lesson learned and how do we proceed? Any new BONUS projects in the horizon? Other possibilities to cooperate in the future?

For any of you who would like to continue discussions in groups we have reserved some meeting rooms (and some coffee....)