

Minutes from the 4th BALTIC GAS workshop Svetlogorsk, Kaliningrad region, Russia 23-24 February, 2011

Rapporteur: Henrik Fossing

Documents (comprising PowerPoint and pdf-files) are uploaded on MEMBERS AREA (accessible with password) from the BALTIC GAS web-page.

Wednesday February 23: 9:00 – 18:30

Welcome

Document:

00.BALTIC GAS Kaliningrad workshop (participants).pdf

Updating of action list (Henrik Fossing)

Document:

01.BALTIC GAS action list (as of June 9 2010).pdf

The action list from the 3rd BALTIC GAS workshop (on Askö) was checked. Nearly all tasks have been accomplished with the few remaining tasks being 'transferred' to the new task list of this meeting.

The Y2 BALTIC GAS scientific report (Bo Barker Jørgensen)

The BALTIC GAS coordinator gave a short summary of the reporting process and concluded that BALTIC GAS research is developing according to schedule. Anyhow, the BONUS EEIG has not accepted the report because no information was provided on the practical implementation of project outputs related to performance statistics 1-4. The PIs agreed to provide the coordinators with the necessary information ASAP in order to have The Y2 BALTIC GAS scientific report accepted by BONUS EEIG.

The final (Y3) BALTIC GAS scientific report (Henrik Fossing)

Document:

02.The BONUS+ third annual report (Henrik Fossing).ppt

It was agreed that the coordinators should submit the final report to BONUS EEIG tentatively by December 22, 2011. The final report will be delivered in accordance to BONUS+ SCIENTIFIC REPORTING GUIDELINES.

The due date of December 22 implies that the WP-leaders submit their contributions to the coordinator no later than December 1, 2011. November 1, 2011 is due date for all Deliverables as well as data delivery to PANGAEA.

BALTIC GAS Tasks to be done (and delivered?) (Henrik Fossing)

The BALTIC GAS Tasks were discussed and revealed that all Tasks contribute to one or more Deliverables. Thus a specification on the outcome of all Task will be covered through the Deliverables. Hence, there is no scientific need to report the products from each Task separately.

BALTIC GAS Deliverables (Henrik Fossing)

The BALTIC GAS schedule of Deliverables lists one deliverable (D5.1) due month 26 (i.e. February 2011) and 12 deliverables due month 36 (i.e. December 31, 2011). With respect to this the WP-leaders (or their substitute) addressed the deliverables as follows.

WP1

Documents:

03.Deliverable 1.4 Submission of data to common database (Henrik Fossing).ppt

04.Organizing raw data from cruises (Laura Lapham).ppt

Henrik Fossing presented a work plan for compiling BALTIC GAS data for PANGAEA and demonstrated the templates to be used for the submission process. It was decided that no pdf-files (e.g. seismic lines, photos etc) are to be submitted to PANGAEA. Such information – together with biogeochemical (raw) data - will be organized by Laura Lapham in cooperation with the principal investigators. These data will be uploaded on MEMBERS AREA (accessible with password) at the BALTIC GAS web-page.

Henrik Fossing is responsible for Deliverable 1.4 Submission of data to common database.

WP2

Documents:

05.WP2 Data mining and GIS-mapping (Jørn Bo Jensen).ppt

06.WP2 Data mining and GIS-mapping (Torben Gentz).pptx

Jørn Bo Jensen informed that Tom Floden (now retired from the Swedish Geological Survey) works as a consultant to provide geophysical data from the Swedish sector of the Baltic Sea. Additionally The Geological Survey of Sweden (SGU) will be inquired about map(s) showing the distribution of mud in entire Baltic. Data from WP4 on observed methane gas distribution will be forwarded by Tim Ferdelman to the WP2 leader.

Torben Gentz presented a literature database (EndNoteX3, see www.myendnoteweb.com) comprising about 600 references all available as pdf-files. This database will be set up by Torben and made accessible from the MEMBERS AREA (accessible with password) at the BALTIC GAS web-page. Torben sends an e-mail to all BALTIC GAS participants when the literature database is open go together with a short guide how to access the data base.

Two meetings will be organized by Jørn Bo Jensen and are planned during spring of 2011 to promote the WP2 Deliverables (see also WP5-meetings):

- Jørn Bo Jensen and Rudolf Endler will meet in April to combine data from IOW and Bremen University in particular and other data in general
- Jørn Bo Jensen and Michael Schlüter will meet to discuss how to transfer mined data to GIS-mapping

Deliverables in WP2 include

Deliverable 2.1: GIS-map of mined data (responsible for this deliverable: Jørn Bo Jensen)

Deliverable 2.2: GIS-map of methane flux and distribution in sediments (responsible for this deliverable: Michael Schlüter)

Deliverable 2.3: GIS-map of hot-spots of present and future CH₄-emission (responsible for this deliverable: Michael Schlüter)

WP3

Document:

07.Deliverable 3.3 Detection and monitoring of methane ebullition (Jens Schneider).ppt

Gregor Rehder gave a short introduction to WP3 deliverables and argued for three Deliverables comprising

Deliverable 3.1: Mapping of shallow gas and physical characterisation of gas bearing sediments (responsible for this deliverable: Jørn Bo Jensen)

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 (responsible for this deliverable: Gregor Rehder)

Deliverable 3.3: Detection and monitoring of methane (responsible for this deliverable: Jens Schneider)

WP4

Document:

08.Deliverable 4.1 Methane distributions and breakdown (Tim Ferdelman).ppt

Tim Ferdelman gave a short introduction to WP3 deliverables comprising

Deliverable 4.1: Methane distributions and breakdown (responsible for this deliverable: Tim Ferdelman)

Deliverable 4.2: Methane emission through sediment-water and sea-air interfaces (responsible for this deliverable: Volker Brüchert)

Deliverable 4.3: Holocene evolution of the Baltic Sea ecosystem (responsible for this deliverable: Daniel Conley)

WP4 also has *Deliverable 4.4: Submitted MS on: Sulphur and methane biogeochemistry. This deliverable should not pose a problem as several papers are expected to complete this.*

WP5

Document:

09.WP 5 deliverables(Jose Mogollon).ppt

José Mogollon presented a work plan for WP5 deliverables comprising

Deliverable 5.1: Transport/ reaction models reg. methane and sulphur dynamics ecosystem (responsible for this deliverable: Pierre Regnier) Note: due March 2011.

Deliverable 5.2: Predictive model and climate change scenarios (responsible for this deliverable: Pierre Regnier)

Deliverable 5.3: Submitted MS on: Integration gas, acoustics and biogeochemistry (responsible for this deliverable: Bo Barker Jørgensen/ Gregor Rehder)

Deliverable 5.1 comprise the development of a transport-reaction model and will be delivered/ presented on the BALTIC GAS homepage together with appropriate documentation to understand construction of the model and its abilities. Additionally it was proposed to show some examples of how the model works (i.e. model output) by use of some illustrative figures.

Two meetings will be organized by Pierre Regnier and are planned during spring of 2011 to promote the WP5 Deliverables (see also WP2-meetings):

- Pierre Regnier and Michael Schlüter meet to progress further on the technical aspects of coupling GIS and modelling work (previously scheduled for fall 2010)
- Pierre Regnier, Jørn Bo Jensen, and Bo Barker Jørgensen meet to discuss model and data integration involving CfG, DESUU & GEUS (previously scheduled in the early fall of 2010).

All above-mentioned deliverables (except of 1.4, 4.4, 5.1, and 5.3) are scientific/ technical reports. These reports will be 'published' on the BALTIC GAS homepage (to be down loaded as pdf-files) with an abstract and a few illustrative examples.

Before April 1st all scientists Responsible for the Deliverable (RD) agreed to write a synopsis of their delivery. Henrik Fossing writes a template for the synopsis, mail it to the RD, receive this form when filled out, and distribute the complied synopses to all contributors to the deliverables.

BALTIC GAS papers (Bo Barker Jørgensen)

Scientific publications and presentations were discussed i.a. content and authorship. All scientific products will be based on contributions from several BALTIC GAS institutions. Hence publications should be planned in a way that dual or multiple presentations of data are avoided and no publications forestall other planned publications and this way eventually hinder a planed publication.

There was mutual agreement that first authors of (tentative) publications should inform our web-manager (Camilla Nissen Toftdal, toftdal@biology.au.dk) who will then organize a list of publications in prep. on MEMBERS AREA (accessible with password) at the BALTIC GAS web-page. This information should comprise

- name of first author
- co-authors
- tentative title/running head
- abstract/ synopsis/ research interests

Acknowledgement to BONUS in the scientific papers is a must. Taking into account that due to the complicated BONUS funding scheme, several projects receive funding both from BONUS EEIG and from the national funding agencies, the recommended phrase would be like this:

"...[the research leading to these results] has received funding from the European Community's Seventh Framework Programme (FP/2007-2013) under grant agreement n°217246 made with the joint Baltic Sea research and development programme BONUS, and from [national funding institution 1, if appropriate], and [national funding institution 2, if appropriate] etc....".

Please also note that usage of BONUS and FP7 logos in various dissemination materials like posters, rollups, presentations etc. is mandatory. Also you are welcomed to use the BALTIC GAS logo ;-)

The 8th Baltic Sea Science Congress in St. Petersburg (August 22-26, 2011) (see <http://www.bssc2011.org/about/> (Bo Barker Jørgensen)

Bo encouraged BALTIC GAS scientists to participate in the 8th BSSC and reminded about the deadline of March 15 reg. registration and submission of abstract(s). Gregor Rehder, Bo Barker Jørgensen and Herman Bange (IFM-GEOMAR Leibniz Institute of Marine Sciences, Germany) convene Session Theme: II. Processes - 4/1 Production, transport, and emission of trace gases and welcome BALTIC GAS scientists to give their presentation here.

Announcement of next BALTIC GAS workshop (Henrik Fossing/ Bo Barker Jørgensen)

The next (and final) workshop will be hosted by Bo Barker Jørgensen and Henrik Fossing in Aarhus (Denmark) in the fall 2011. The meeting days and length of workshop were discussed and agreement was reached that a three full days workshop should be organized within week 44 (i.e. October 31 – November 4, 2011) to allow more time for scientific discussions. Subjects to be discussed at the final workshop comprise i.a.:

- *organize the final (Y3) BALTIC GAS scientific report*
- *discussion of (tentative) publications and concurrent preparation*
- *a summary of the BALTIC GAS project in a structured manner*
- *presentation of end-products (Deliverables) and the science behind*
- *general presentation of BALTIC Gas science done – new awareness/ conclusions/ discoveries*
- *informal discussions of data and science, exchange of data, new conclusions, consensus about research results*

Further, the coordinator (Bo Barker Jørgensen) considers designating one full day at the workshop to present the outcome of BALTIC GAS for external experts, including representatives from environmental agencies, stakeholders and other end-users.

Thursday February 24: 9:00 – 12:00

Scientific discussions and planning deliverables were done in smaller groups for until 11:30.

Action list (Henrik Fossing)

Document:

10.BALTIC GAS action list (as of February 24, 2011)(Henrik Fossing).pdf

The action list based on the minutes from the BALTIC GAS workshop was updated and consensus was reached about tasks and dead-lines.