

BALTIC GAS kick-off workshop at the Max Planck Institute for Marine Microbiology, Bremen, Germany, February 4 – 6, 2009

Wednesday, February 4

Registration and welcome	
9:00 9:15	Registration <i>You are expected to register by grabbing your name tag at the MPI reception.</i>
9:15 9:20	Welcome <i>... to the workshop by the BALTIC GAS coordinator: Bo Barker Jørgensen</i>
9:20 9:25	Practical information (Tim Ferdelman) <i>... about lunch, dinner ect.</i>
9:25 9:50	Brief presentation of participants (everybody) <i>Everybody is expected to present him/ herself in less than 1 minute.</i>
BALTIC GAS – a research programme in BONUS – overview	
9:50 10:20	Major research challenges and scope of BALTIC GAS (Bo Barker Jørgensen) <i>This initial overview will summarize the general goals of the project and outline its structure and strategy.</i>
10:20 10:35	The BONUS EEIG (Henrik Fossing) <i>Information about Bonus data policy, reporting guideline, Ph.D courses and Consortium Agreement.</i>
10:35 10:55	COFFEE BREAK
BALTIC GAS science plan in detail	
10:55 16:30 Lunch & coffee breaks incl.	<p>Integrating institutional research into BALTIC GAS <i>This session starts with a short overview of two “related” BONUS programs: HYPER and INFLOW (Henrik Fossing) see also:</i> http://www.bonusportal.org/modules/system/stdreq.aspx?P=669&VID=default&SID=343563114141548&S=0&C=25181 <i>The PIs present their institutional research plans based on the revised BALTIC GAS Full Research Plan with special emphasis on the research obligations of Gantt chart B: Responsibilities of each consortium participant (p. 19) and the List of Deliverables as agreed with the BONUS EEIG (attached). The presentation should point to areas in the Baltic Sea of particular interest to the PI and also present any research cruise already scheduled that supports BALTIC GAS.</i> <i>Each presentation is scheduled to 15 min + 5 min questions/ discussion</i></p> <p><i>OUTPUT: important information and input to the upcoming discussion on purpose with each cruise to be planned, determination of research areas and participating BALTIC GAS scientists on cruises.</i></p> <ul style="list-style-type: none"> • <i>Bo Barker Jørgensen/ Henrik Fossing Center for Geomicrobiology/ National Environmental Research Institute Aarhus University</i> • <i>Tim Ferdelman Max Planck Institute for Marine Microbiology</i> • <i>Volker Brüchert Department of Geology and Geochemistry, Stockholm University</i>

before lunch	<p>Photo session A photo of all work-shop participants will be taken outside the MPI (at the steps in front of the pond). Comb your hair and say: Cheese.</p>
12:30 13:30	<p>LUNCH</p>
	<p>Integrating institutional research into BALTIC GAS (continued)</p> <ul style="list-style-type: none"> • Daniel Conley Department of Geology, Lund University • Nikolay Pimenov Winogradsky Institute of Microbiology, Russian Academy of Sciences • Zygmunt Klusek Institute of Oceanology, Polish Academy of Science • Gregor Rehder Baltic Sea Research Institute Warnemünde • Volkhard Spieß Department of Geology, University of Bremen
15:10 15:30	<p>COFFEE BREAK</p>
	<p>Integrating institutional research into BALTIC GAS (continued)</p> <ul style="list-style-type: none"> • Jørn Bo Jensen Geological Survey of Denmark and Greenland • Michael Schlüter Alfred Wegener Institute for Polar and Marine Research • Pierre Regnier / Andy Dale Department of Earth Sciences, Utrecht University
16:30 17:00	<p>Continued discussion based on the institutional presentations (Bo Barker Jørgensen) Bo leads the discussion on the work plan based on the presentations, pointing to potential further collaborations, possible research overlaps or conflicts of interest, etc.</p>
<p>BALTIC GAS administration</p>	
17:00 17:05	<p>Presentation of the BALTIC GAS Steering group (Bo Barker Jørgensen) The steering group comprises the lead partners of the five work packages.</p> <p>OUTPUT: The responsibility of the Steering group is discussed/ clarified!</p>
17:05 17:15	<p>Day to day coordination of BALTIC GAS (Henrik Fossing / Bo Barker Jørgensen). An efficient and constructive dialogue between the coordinators, PIs, WP leaders and scientific team is of major importance to secure the success of BALTIC GAS. This is obtained e.g. by use of an interactive homepage and bi-annual meetings/ workshops.</p>
17:15 17:25	<p>Scheduling meetings and workshops during BALTIC GAS (everybody). Six meetings/ workshops are planned to be organized in shifting partner countries and hosted by the PI. Please consider if your institution is able to host a meeting. Two meetings are already planned: The kick-off meeting in Bremen and the 10th International Conference on Gas in Marine Sediments, August 2010, Irkutsk (Russia). However, it should be discussed if a BALTIC GAS meeting in connection to the Irkutsk-meeting is realistic.</p> <p>OUTPUT: Hosting institutions for 4 (or 5) bi-annual BALTIC GAS workshops. Specific dates for the meetings will depend on cruise schedule.</p>

17:25 17:40	<p>Communication to stakeholders, managers and end-users (Henrik Fossing) <i>Cooperation with representatives from environmental agencies and other end-users is of importance to the scope of BONUS. Who are BALTIC GAS addressing? PIs should consider active partners from their countries.</i></p> <p><i>OUTPUT: A list with names of possible stakeholders, managers and end-users to contact and inform about BALTIC GAS.</i></p>
19:00	<p>DINNER <i>Together in a local restaurant ...at your own expense</i></p>

Thursday, February 5

Research cruises and field work	
9:00 10:30	<p>Discussion and priorities of research areas in the Baltic Sea (everybody) <i>As we talk (and by use of PowerPoint) we circle areas and highlight transects on a Baltic Sea map. The main BALTIC GAS scientific interests of the particular area are noted.</i></p> <p><i>OUTPUT: A map with research areas and transects to be studied during BALTIC GAS.</i></p>
10:30 10:50	<p>COFFEE BREAK</p>
10:50 11:50	<p>Presentation of research vessels <i>Depending on BALTIC GAS research to be performed specific demands for research vessels, equipment, size of scientific party, cruise length etc. are required. Thus the presentation should focus on ship size, deck space, lab capacity (i.e. size), equipment (e.g. coring device and seismic equipment), suitability for seismic and sediment gear, strength of cranes and cables (length and thickness) to pull out 4-6 m gravity cores etc. In addition availability of the research vessel should be stated as well as rental prize for the ship if additional cruise time is requested. Each research vessel must be presented within 10 min (incl. questions)</i></p> <p><i>OUTPUT: An overview of available research vessels and their performance in BALTIC GAS research. The PIs are asked to write up an overview of the research vessels (in advance) to be included in the minutes from the workshop.</i></p> <ul style="list-style-type: none"> • RV GUNNAR THORSON (Henrik Fossing) • RV PROFESSOR STOCKMAN (Nikolay Pimenov) • RV OCEANIA (Zygmunt Klusek) • RV POSEIDON and PROFESSOR ALBRECHT PENCK (Gregor Rehder) • RV HEINCKE/ ALKOR (Volkard Spiess)
11:50 14:20 lunch break incl.	<p>Workgroups on sediment survey (i.e. seismic measurement) headed by Gregor Rehder (WP 3 leader) and biogeochemistry (i.e. sediment sampling and analyzing) headed by Tim Ferdelman (WP 4 leader)</p> <p><i>The two groups discuss in detail the research to be done at the selected research areas. This also comprises how the survey / sediment sampling should be performed, the equipment needed (incl. responsible scientists), time frame for the in field research, participating scientists, analyses of data and sediment, data handling and transfer to database (i.e. form, logistics and responsible scientist) etc.</i></p> <p><i>About 2½ hours is allocated to the group discussion (incl. lunch break).</i></p> <p><i>OUTPUT: The two WP leaders present the outcome from the group discussion before the detailed cruise planning. In addition, the main conclusions from the discussion are written up by the WP leaders and included in the minutes from the workshop.</i></p>
14:20 14:50	<p>Presentation of the discussion in the two workgroups (Gregor Rehder and Tim Ferdelman; 2 x 15 min) ...<i>this presentation leads directly to cruise planning</i></p>

14:50 15:10	COFFEE BREAK
15:10 17:10	<p>Cruise planning (everybody) <i>Scheduling each cruise: research vessel, research purpose, geographic area covered, dates, participants (incl. chief scientist). Possibility to invite scientists from other BONUS programmes (e.g. HYPER and INFLOW).</i></p> <p><i>OUTPUT: A detailed overview of planned research cruises.</i></p>
19:00	<p>DINNER <i>...generously offered to the BALTIC GAS work-shop participants by the Max Planck Institute</i></p>

Friday, February 6

Data mining, GIS-mapping and modelling	
9:00 10:00	<p>Data mining (Jørn Bo Jensen) <i>How is Baltic Sea methane data searched in national data-bases and compiled in a common data base? Are there other parameters of interest to include e.g. organic content, sedimentations rates, and sediment characteristics? How are data searched in non BALTIC GAS partner states (i.e. Finland, Estonia, Latvia, and Lithuania)?</i></p> <p><i>The presentation is followed by a discussing leading to...(OUTPUT)... a list comprising data-base parameters to be collected and national representatives to be contacted. Initiation of a manual describing how to organize, present and transfer data to a common data base.</i></p> <p><i>PIs are encouraged to be or to name contact(s) in their country that are able to secure the delivery of the requested data.</i></p>
10:00 11:00	<p>Use of database PANGAEA for geochemical data (Michael Schlüter) <i>How is mapping of mined data performed - aim and challenges? The same question with respect to mapping methane flux and distribution in sediments as well as mapping hot-spots of present and <u>future</u> CH₄-emission.</i></p> <p><i>The presentation is followed by a discussion how (OUTPUT) mined data and BALTIC GAS (new and modelled) data are GIS-mapped. What are the deliverables to the modellers and what are their dead-lines?</i></p>
11:00 11:20	COFFEE BREAK
11:20 12:00	<p>Modelling and presentation of model tools (Pierre Regnier/ Andy Dale). <i>An overview of BALTIC GAS models e.g. transport-reaction models and predictive models are presented. The presentation will focus on data necessary/ needed to parameterize, calibrate, validate and finally operate sediment models. The presentation is followed by a 10 min discussion.</i></p> <p><i>OUTPUT: An increased awareness of the modellers needs to obtain sufficient and qualified data to allow the construction of reliable (i.e. validated) predictive models.</i></p>