



Outcome of the First Meeting of the Expert Group on environmental risks of hazardous submerged objects (SUBMERGED 1-2014)

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Outcome of the First Meeting of the Expert Group on environmental risks of hazardous submerged objects (SUBMERGED 1-2014)

Introduction

0.1 In accordance with the decisions of HELCOM HOD 43-2013 and RESPONSE 18-2014, the First Meeting of the HELCOM expert group on environmental risks of hazardous submerged objects (SUBMERGED 1-2014) was held on 29 October 2014 in Szczecin, Poland, at the premises of the Maritime University of Szczecin.

0.2 The Meeting was attended by delegations from Finland, Germany, Poland and Sweden as well as observers from ECSA (European Community Shipowners Association) and International Dialogue on Underwater Munitions (IDUM). The List of Participants is attached as **Annex 1**.

0.3 The Meeting was chaired by Mr. Jacek Beldowski and Mr. Jens Sternheim, the Co-chairs of HELCOM SUBMERGED. Mr. Hermanni Backer, HELCOM Professional Secretary, acted as secretary of the Meeting.

0.4 The Meeting was opened by Mr. Andrzej Jagusiewicz, Chief Inspector of Environmental Protection, Poland, who emphasized the importance of the work of HELCOM SUBMERGED.

0.5 The Meeting was welcomed to Szczecin and to the venue by Mr. Andrzej Bak, Rector for Maritime issues at the Maritime University, Szczecin.

Agenda Item 1 Adoption of the Agenda

Documents: 1-1

1.1 The Meeting adopted the Agenda as contained in document 1-1.

Agenda Item 2 Terms of Reference and election of co-chairs for 2014-2016

Documents: 2-1

2.1 The Meeting took note of the finalised Terms of Reference of HELCOM SUBMERGED (document 2-1) as contained in **Annex 2**.

2.2 The Meeting elected Mr. Jens Sternheim (Germany) and Mr. Jacek Beldowski (Poland) as Co-chairs of HELCOM SUBMERGED for the period 2014-2016.

2.3 The Meeting elected Mr. Gunnar Möller (Sweden) and Mr. Jorma Rytönen (Finland) as Vice-Chairs of HELCOM SUBMERGED for the period 2014-2016.

Agenda Item 3 Draft outline of the SUBMERGED Assessment

Documents: 3-1

3.1 The Meeting considered the first draft outline of the HELCOM SUBMERGED Assessment (document 3-1).

3.2 The Meeting agreed to merge the chapters on dumped waste and lost cargo, and to include a new sub-chapter on action potential (remediation/salvage measures) to be included under each of the substantial chapters.

3.3 The Meeting agreed on the outline of the SUBMERGED Assessment, as edited by the Meeting and contained in **Annex 3**.

- 3.4 The Meeting welcomed the offers to and agreed on lead countries for organising the drafting of the chapters of the Assessment as follows:
- Poland and Germany: Warfare materials
 - Finland: Wrecks
 - Sweden (initial lead) and Germany: Dumped waste and Lost cargo.
- 3.5 The Meeting noted that these leads are nominated to ensure a result, but that they depend on the input received. Other Contracting Parties and Observers are also welcome to actively participate in the work.
- 3.6 The Meeting agreed that the Secretariat will circulate the Outcome of the Meeting to all HELCOM RESPONSE & MARITIME Contacts and Observers with the invitation that contributions to all chapters of the draft document are welcome and that the interested contributors should contact the Lead country contacts as well as the Secretariat.
- 3.7 The Meeting agreed that it would be important to start from a general overview of all the assessment topics and then go into details of each issue and that one important task would be to figure out what is known and what is not known regarding hazardous submerged objects in the Baltic Sea.
- 3.8 The Meeting stressed that even if the disclosure of geodata on hazardous submerged objects is problematic, a practical solutions to this issue have to be found in order to complete the work outlined in the ToRs.
- 3.9 The Meeting noted that HELCOM databases, including HELCOM GIS and the HELCOM hydrographic re-survey are available for storing and presenting the geodata compiled within the Group.
- 3.10 The Meeting highlighted the importance to get all HELCOM Contracting Parties involved in the work in order to secure a good final result and invited the Participants and the Secretariat to inform on the HELCOM SUBMERGED activities in relevant networks in order to secure more participation.
- 3.11 The Meeting noted that Poland and Germany have plans to raise issue at the HELCOM HOD in December 2014.
- 3.12 The Meeting took note of the presentation by Mr. Claus Böttcher, Germany (Ministry of Energy, Agriculture, the Environment and Rural Areas Schleswig-Holstein) reflecting on the process to draft the HELCOM SUBMERGED Assessment (**Presentation 1**).
- Agenda Item 4 Wrecks esp. Polluting wrecks**
- 4.1 The Meeting took note of the presentation by Mr. Jorma Rytönen, Finland (SYKE), on national activities on wrecks, wreck risk assessments in Finland as well as cooperation with other countries including Sweden (**Presentation 2**).
- 4.2 The Meeting took note of the presentation by Mr. Benedykt Hac, Poland (Maritime Institute in Gdańsk), on national activities on wrecks and wreck risk assessments in Poland (**Presentation 3**).
- 4.3 The Meeting took note of the presentation by Mr. Adam Woznicki, Poland (Hydrographic Office of the Polish Navy) on wrecks in the work of the Polish Hydrographic Office including the Polish wreck database (**Presentation 4**).
- 4.4 The Meeting took note of the presentation by Mr. Kari Rinne, ECSA (Alfons Håkans Ltd) on wrecks including wreck cleaning technology and operations in Europe, the Baltic Sea and worldwide (**Presentation 5**).
- 4.5 The Meeting noted that while the current worldwide discussion on wrecks is focusing on fuel hazards, some fuels are more harmful than others and that cargo-related hazards are also important.
- 4.6 The Meeting agreed that all available information on wrecks (including classified wrecks) should be used in the work to draft the wreck chapter even if the level of data disclosure will have to be determined during the work.

4.7 The Meeting recalled that the Nairobi International Convention on the Removal Wrecks will enter into force on 14. April 2015 with the ratification of Denmark on 14 April 2014 and agreed that the implementation of the convention in the Baltic Sea could be reflected in the report.

4.8 The Meeting welcomed that Finland volunteered to lead the work on wrecks supported by Poland and other interested Contracting Parties and Observers.

Agenda Item 5 Dumped hazardous waste

5.1 The Meeting noted that waste dumping at sea was a common practice in the Baltic Sea coastal countries up to the 1970s and that a part of this dumped waste has been hazardous.

5.2 The Meeting noted further that trade and transport of hazardous waste by sea is a growing international business, that illegal dumping and trade of hazardous waste occurs still today and that such illegal activities have commonly ties to organised crime.

5.3 The Meeting noted the information by Sweden that some information on the location of dumped hazardous waste is available, such as mercury barrels found off the Swedish coasts and a reactor dumped to the Landsort Deep, but no national overview is available.

5.4 The Meeting noted that likely a large part of the information on hazardous and other waste dumping in the Baltic Sea is available only in municipal/industry archives and that likely few overviews are available nationally.

5.4 The Meeting took note also of the following information:

- Poland will check the Maritime Office for information on dumped waste but some cases or related incidents have been reported in the media;
- Finland and its national environmental authority SYKE has been involved in some hazardous dumped waste cases during the last decades;
- in Germany some dumping grounds for industrial waste have been located.

5.5 The Meeting welcomed that Sweden volunteered to tentatively lead (subject to confirmation) the drafting of the chapter on dumped hazardous waste and lost cargo, supported by Secretariat and interested Contracting Parties and Observers.

5.6 The Meeting welcomed that Sweden could, as a first step, look into the Baltic Ordnance Survey Board (BOSB) object database in order to identify observations potentially interesting for this section.

Agenda Item 6 Lost cargo and other dumped objects

6.1 The Meeting noted that containers and other cargo is lost with regular intervals in the Baltic Sea and that depending on the content this can be a threat to the marine environment e.g. as a hazardous substance, as marine litter or as a navigational hazard.

6.2 The Meeting noted that like for hazardous waste little readily compiled information exists on lost cargos and other (non-hazardous) dumped objects but that HELCOM shipping accident reports (1990-) can be one source of lost cargo information.

6.3 The Meeting noted that an international response exercise on 24 September 2014 under the Copenhagen Agreement in Oxelösund, Sweden, carried out a test in retrieving a lost container from the sea-bed.

6.4 The Meeting recalled that the topic would be covered under the same assessment chapter as dumped waste (c.f. Annex 3).

Agenda Item 7 Warfare materials

Documents: 7-1, 7-2

7.1 The Meeting took note of the presentation by Mr. Claus Böttcher, Germany on the HELCOM MUNI report “Chemical Munitions Dumped in the Baltic Sea” (document 7-1), published as Baltic Sea Environment Proceeding (BSEP) No. 142, which is available only in electronic form on the [HELCOM website](#). (**Presentation 6**).

7.2 The Meeting took note of the presentation by Mr. Claus Böttcher on the report “Munitions in German Marine Waters - Stocktaking and Recommendations” (document 7-2) and on the German national group on underwater munitions matters (**Presentation 7**).

7.3 The Meeting took note of the presentation on Mines and mine clearance cooperation in the Baltic Sea by Mr. Gunnar Möller, Sweden (**Presentation 8**).

7.4 The Meeting took note of the presentation by Mr. Jacek Beldowski, Poland (Institute of Oceanology PAN), on the CHEMSEA and MODUM projects (**Presentation 9**).

7.5 The Meeting took note of the presentation by Mr. Terry Long, IDUM, on international work on underwater munitions, including the UNGA resolution 68/208 as well as the work toward an international convention on underwater munitions (**Presentation 10**).

7.6 The Meeting took note of the presentation by Ms. Anna Sosnowska on the UMBRELLA project and website (**Presentation 11**).

7.7 The Meeting agreed that information on the geographic distribution of conventional weapon dumpsites, mines and chemical munitions as well as wrecks and other objects in the region should be combined and welcomed the offer by Sweden to compile the geodata/position information submitted by the Group and available by other means.

7.8 The Meeting noted also the following regarding the warfare material chapter of the assessment:

- the environmental issues section could cover toxic footprint of chemical but also conventional munitions;
- the risk assessment could include hazards to navigational safety based on the work of BOSB;
- the section on Remediation potential/salvage recommendations could use the technology related to IDUM and the internal advisory board, the contents of the HELCOM Muni report Annex on technology as well as the report “[Overview on underwater munitions technology and methodology for Military Munitions Response Programs \(MMRP’s\)](#)”.

7.9 The Meeting welcomed the offer by Poland and Germany to take the lead on the topic on warfare materials with the support of Sweden on geographic distribution of observations.

Agenda Item 8 Work plan and future meetings

8.1 The Meeting updated the list of contacts/members as contained in **Annex 4**.

8.2 The Meeting agreed on a rough work plan of the Expert Group as drafted during the Meeting and contained in **Annex 5**.

8.3 The Meeting agreed to arrange the next meeting tentatively 17-19 March 2015 in Bonn, Germany.

Agenda Item 9 Outcome of the meeting

Documents: 9-1

9.1 The Meeting adopted the draft Outcome as contained in document 9-1. The Outcome was finalized by the Secretariat in consultation with the Co-chairs and will then be made available in the HELCOM Meeting Portal.

ANNEX 1

LIST OF PARTICIPANTS

Representing	Name	Organisation	E-mail address
Chairs			
Poland	Jacek Bełdowski	Institute of Oceanology PAN	hyron@iopan.gda.pl
Germany	Jens Sternheim	Ministry of Energy, Agriculture, the Environment and Rural Areas of the Land of Schleswig-Holstein (MELUR SH)	jens.sternheim@melur.landsh.de
Contracting Parties			
Finland	Kirsi Kentta	Ministry of the Environment	kirsi.kentta@ymparisto.fi
Finland	Keimo Parkkinen	Finnish Armed Forces and Baltic Ordnance Safety Board (BOSB)	keimo.parkkinen@mil.fi
Finland	Jorma Rytönen	Finnish Environment Institute (SYKE)	jorma.rytkonen@ymparisto.fi
Germany	Claus Böttcher	Ministry of Energy, Agriculture, the Environment and Rural Areas of the Land of Schleswig-Holstein (MELUR SH)	claus.boettcher@melur.landsh.de
Germany	Uwe Wichert	Ministry of Energy, Agriculture, the Environment and Rural Areas of the Land of Schleswig-Holstein (MELUR SH)	Uwe.Wichert@gmx.de
Germany	Ingo Weinberg	Federal Maritime and Hydrographic Agency	ingo.weinberg@bsh.de
Poland	Andrzej Jagusiewicz	Chief Inspectorate of Environmental Protection	a.jagusiewicz@gios.gov.pl
Poland	Piotr Nowosielski	Maritime Office in Szczecin	pnowosielski@ums.gov.pl
Poland	Andrzej Podscianski	Chief Inspectorate of Environmental Protection	a.podscianski@gios.gov.pl
Poland	Anna Sosnowska	Chief Inspectorate of Environmental Protection	a.sosnowska@gios.gov.pl
Poland	Adam Woznicki	Hydrographic Office of the Polish Navy (HOPN)	a.woznicki@mw.mil.pl
Poland	Benedykt Hac	Maritime Institute in Gdańsk	benhac@im.gda.pl
Poland	Kinga Łazuga	Maritime University of Szczecin	k.lazuga@am.szczecin.pl
Sweden	Gunnar Möller	Swedish Armed Forces and Baltic Ordnance Safety Board (BOSB)	gunnar.moller@mil.se
Observers			
IDUM	Terrance Long	International Dialogue on Underwater Munitions (IDUM) and International Advisory Board on Technology	tplong@eastlink.ca
ECSA	Kari Rinne	Alfons Håkans Ltd	kari.rinne@alfonshakans.fi
HELCOM Secretariat			
Professional Secretary	Hermann Backer	Helsinki Commission	hermanni.backer@helcom.fi

ANNEX 2**TERMS OF REFERENCE OF HELCOM SUBMERGED****Terms of Reference for the HELCOM expert group on environmental risks of hazardous submerged objects (SUBMERGED) (agreed by HELCOM HOD 43/2013)**

The work of the Expert Group HELCOM SUBMERGED (HELCOM expert group on environmental risks of hazardous submerged objects) will be carried out under the supervision of HELCOM RESPONSE and will be based on the framework terms of reference described below.

Background

- HELCOM is responsible for monitoring the status of the Baltic Sea Ecosystem and, as deemed necessary, for deciding on respective protective measures.
- According to the Work Programme of HELCOM RESPONSE, the group is *inter alia* responsible for collecting additional information on dumped chemical munitions.
- In 1995 the HELCOM Final Report of the *ad hoc* Working Group on Dumped Chemical Munitions (HELCOM CHEMU report) was presented to HELCOM 16.
- Mindful of the time period since 1995 and in particular of the technical and scientific developments and new available information such as actual investigations and research programs, further information provided by other organizations/companies and as well as with regard to reported incidents (including discovery of phosphorus on beaches), the *Ad Hoc* Expert Group To Update And Review The Existing Information On Dumped Chemical Munitions In The Baltic Sea (HELCOM MUNI) was tasked with the elaboration of an updated report by the HELCOM Ministerial Meeting in 2010:
 - ✓ compile all kinds of additional information on dumping activities especially after the World War II;
 - ✓ check whether the general conclusions of the „CHEMU-report“ are still valid;
 - ✓ check whether all recommendations as set out in the „CHEMU-report“ are fulfilled in a satisfactory way;
 - identify obstacles that may have led to unsatisfactory fulfillment;
 - develop additional recommendations (including the need for further research) as deemed necessary;
 - use suitable models in order to assess the ecological risks related to sea dumped chemical munitions;
 - update or as deemed necessary, develop Guidelines for affected groups e.g. fishermen, based on existing national guidelines;
 - ✓ together with lead country Denmark review the existing reporting system with the aim of involving HELCOM Contracting Parties more actively into reporting obligations.
- A close link was established between the work of HELCOM MUNI and the implementation process of the Remediation and mitigation Action of the EUSBSR PA Hazard, Flagship Project “Assess the need to clean up chemical weapons”, led by Poland (i.a., regarding the possible upcoming need for research funding). This project aims to assess the need to clean up contaminated wrecks and dumped chemical munition where it is required to protect sensitive

marine ecosystems, taking into account earlier and present work carried out by HELCOM. Furthermore, commitments that have been made in the framework of the Baltic Sea Action Summit on February 10, 2010, in Helsinki were included into the work of HELCOM MUNI (e.g., commitments from Lithuania and Nord Stream).

- The HELCOM MUNI report will be presented at the 34th Annual Meeting of the Helsinki Commission in 2013 and, when approved, will supersede the HELCOM CHEMU report.

Current state of affairs

- Technical and scientific developments and research projects (e.g., the EU-funded research program CHEMSEA) are currently ongoing.
- Taking further into account that Contracting Parties are conducting various activities on a national level continuously adding to the existing state of knowledge, HELCOM MUNI concluded that its report should only be considered as a step in an ongoing process. Periodical updates of the report will become necessary when significant new findings will be made available.
- With regard to the increasing utilization of the seafloor for economic purposes (e.g., offshore wind farms, sea cables, pipelines), the likelihood of encountering the hazardous legacy of the sea-dumped munitions is increasing. Incidents which involve legacy munitions occur every year in the Baltic Sea. The increasingly evident conflict between new and old usages of the seafloor necessitates the availability of *forward-looking* options to achieve a definite solution of these problems.
- White phosphorus has been found washed out on the beaches of the southern Baltic Sea and poses a risk for beach visitors.
- Numerous wrecks containing harmful substances including oil have been identified within national hydrographic surveys and other activities, with some of these objects located close to natural amenities and recreational areas.
- The HELCOM MUNI suggested that its report should be updated when significant new findings become available. Therefore the establishment of a new expert group HELCOM SUBMERGED under the responsibility of HELCOM RESPONSE is recommended. The Terms of Reference should encompass all kinds of submerged hazardous objects, containing harmful substances, including oil, lost or dumped packed dangerous goods (e.g. containers), munitions and warfare materials, which may affect the environment and other activities in the Baltic Sea.

Tasks and Organization

- Concerning tasks, HELCOM SUBMERGED will
 - proceed from the foundation of information, conclusions and recommendations provided by the HELCOM MUNI report and other relevant studies;
 - compile and assess information about all kinds of hazardous objects, including contaminated wrecks, lost or dumped packed dangerous goods (e.g. containers), dumped hazardous waste, munitions and warfare materials which may affect the environment and other activities in the Baltic Sea (e.g., human beings involved in shipping and offshore construction) and assess the associated risks;
 - produce a one off HELCOM thematic assessment on environmental risks of hazardous submerged objects covering contaminated wrecks, lost or dumped dangerous goods (e.g. containers), chemical munitions and other objects;

- seek co-operation with OSPAR relating to such objects dumped close to the HELCOM area which could affect the convention area (e.g., in the Kattegat and Skagerrak areas);
- compile and maintain statistics of reported incidents with lost cargoes, contaminated wrecks and dumped munitions or hazardous waste, as well as review and adjust the reporting and information system for incidents, as deemed necessary;
- on periodic basis, or as need arises,
 - check the validity and, as deemed necessary, update previously issued conclusions;
 - check and facilitate the implementation of previously issued recommendations;
 - update previously issued recommendations or develop additional recommendations as deemed necessary, e.g. the specific needs for further research;
 - issue updated information when new significant findings become available;
- develop and maintain, as well as monitor application of a HELCOM toolbox for assessment of site-specific environmental risks related to potential abandonment, relocation and intended recovery or clean-up of dumped munitions and contaminated wrecks;
- update previously issued Guidelines or develop new Guidelines for all potentially affected groups, as deemed necessary, taking into account existing national guidelines and contingency plans;
- develop and maintain procedures for training of crews of response vessels that can be engaged in emergency response actions involving dumped munitions;
- develop and maintain a knowledge collection of best available technologies on dealing with lost packed chemical cargoes, dumped munitions and contaminated wrecks and dangerous waste;
- follow and interact with national and international (research) projects and ensure transfer of knowledge and products (e.g., with the currently ongoing CHEMSEA projects and the International Dialogue on Underwater Munitions).
- Concerning organizational matters, the Expert Group will:
 - be chaired by a Chairperson, to be elected at the first meeting;
 - have the option to invite experts to officially join the Expert Group;
 - as far as possible work via correspondence, and convene as need arises, and will organize their meetings thematically to ensure participation of experts on specific topics, and
 - report at least once every year to HELCOM RESPONSE by written procedure or through representation.
- HELCOM Contracting Parties and HELCOM Observer Organizations are invited to actively participate in the work of HELCOM SUBMERGED.

Timeline

The Expert Group is established for three year period. Prolongation of the expert group should be considered at the end of the three year period and based on the results of the work.

ANNEX 3

OUTLINE OF THE HELCOM SUBMERGED ASSESSMENT

Submerged hazardous objects in the Baltic Sea

-geographical distribution, environmental risks and follow up measures

HELCOM Thematic Assessment 2016

1. Introduction

2. Warfare materials

(Lead: Poland and Germany)

2.1 Geographical distribution

2.2 Environmental issues

2.3 Risk assessment

2.4 Remediation/Salvage measures

3. Wrecks

(Lead: Finland)

3.1 Geographical distribution

3.2. Environmental issues

3.3 Risk assessment

3.4 Remediation/Salvage measures

4. Dumped hazardous waste and Lost cargo

(Lead: Sweden)

4.1 Geographical distribution

4.2 Environmental issues

4.3 Risk assessment

4.4 Remediation/Salvage measures

5. Conclusions and the way forward

ANNEX 4

LIST OF NOMINATED MEMBERS OF HELCOM SUBMERGED (BY 30.10.2014)

Representing	Name	Organisation	E-mail address
Contracting Parties			
Finland	Kirsi Kentta	Ministry of the Environment	kirsi.kentta@ymparisto.fi
Finland	Jorma Rytönen	Finnish Environment Institute (SYKE)	jorma.rytkonen@ymparisto.fi
Germany	Claus Böttcher	Ministry of Energy, Agriculture, the Environment and Rural Areas Schleswig-Holstein	claus.boettcher@melur.landsh.de
Germany	Jens Sternheim	Ministry of Energy, Agriculture, the Environment and Rural Areas of the Land of Schleswig-Holstein (MELUR SH)	jens.sternheim@melur.landsh.de
Germany	Uwe Wichert	Ministry of Energy, Agriculture, the Environment and Rural Areas of the Land of Schleswig-Holstein (MELUR SH)	Uwe.Wichert@gmx.de
Germany	Ingo Weinberg	Federal Maritime and Hydrographic Agency	ingo.weinberg@bsh.de
Poland	Benedykt Hac	Maritime Institute in Gdańsk	benhac@im.gda.pl
Poland	Maciej Grzonka	Maritime Search and Rescue Service	maciej.grzonka@sar.gov.pl
Poland	Piotr Nowosielski	Maritime Office in Szczecin	pnowosielski@ums.gov.pl
Poland	Andrzej Podscianski	Chief Inspectorate of Environmental Protection	a.podscianski@gios.gov.pl
Poland	Anna Sosnowska	Chief Inspectorate of Environmental Protection	a.sosnowska@gios.gov.pl
Poland	Jacek Beldowski	Institute of Oceanology PAN	hyron@iopan.gda.pl
Poland	Kinga Łazuga	Maritime University of Szczecin	k.lazuga@am.szczecin.pl
Sweden	Gunnar Möller	Swedish Armed Forces and Baltic Ordnance Safety Board (BOSB)	gunnar.moller@mil.se
Sweden	Peter Sigray	FOI	peter.sigray@foi.se
Observers			
IDUM	Terrance Long	International Dialogue on Underwater Munitions (IDUM)	tplong@eastlink.ca
Secretariat			
	Hermann Backer	Professional Secretary	hermanni.backer@helcom.fi
	Minna Pyhala	Assisting Professional Secretary	minna.pyhala@helcom.fi

ANNEX 5**INDICATIVE TASKS AND 1ST TIMELINE OF HELCOM SUBMERGED***Indicative task distribution*

	Lead	Cooperation	Remarks
Wrecks	FIN	PL, SE (+ others)	+ECSA +IDUM
Dumped hazardous waste and lost cargo	SE & DE	PL, Secretariat (+ others)	
Warfare material	PL&DE	SE, FIN (+others)	+IDUM

Please CC to HELCOM Secretariat (maritime.response@helcom.fi) in all correspondence.

Timeline

Deadline	Task
24. December 2014	Send any published national reports the chapter leads and the Secretariat (in English or national languages). If possible provide a translation of report abstracts in case a national language is used.
20. January 2015	Send first drafts of national inputs to Chapter leads and the Secretariat
15. February 2015	Send national inputs/contributions to the Chapter leads and the secretariat
17. to 19. March 2015 (HELCOM SUBMERGED 2-2015)	Discuss input and, based on chapter lead country first suggestions for chapter contents (to be prepared and submitted to the meeting), further develop Assessment document by SUBMERGED 2-2015

LIST OF PRESENTATIONS

- Presentation 1** Claus Böttcher, Germany (Ministry of Energy, Agriculture, the Environment and Rural Areas Schleswig-Holstein) reflecting on the process to draft the HELCOM SUBMERGED assessment.
- Presentation 2** Jorma Rytönen, Finland (SYKE), on national activities on wrecks, wreck risk assessments in Finland as well as cooperation with other countries including Sweden.
- Presentation 3** Benedykt Hac, Poland (Maritime Institute in Gdańsk), on national activities on wrecks and wreck risk assessments in Poland.
- Presentation 4** Adam Woznicki, Poland (Hydrographic Office of the Polish Navy) on wrecks in the work of the Polish Hydrographic Office including the Polish wreck database.
- Presentation 5** Kari Rinne, ECSA (Alfons Håkans Ltd) on wrecks including wreck cleaning technology and operations in Europe, the Baltic Sea and worldwide.
- Presentation 6** Claus Böttcher, Germany (Ministry of Energy, Agriculture, the Environment and Rural Areas Schleswig-Holstein) on the HELCOM MUNI work and the report "Chemical Munitions Dumped in the Baltic Sea".
- Presentation 7** Claus Böttcher, Germany (Ministry of Energy, Agriculture, the Environment and Rural Areas Schleswig-Holstein), on the report "Munitions in German Marine Waters - Stocktaking and Recommendations" (document 7-2) and on the German national group on underwater munitions matters .
- Presentation 8** Gunnar Möller, Sweden (BOSB), on Mines and mine clearance cooperation in the Baltic Sea.
- Presentation 9** Jacek Beldowski, Poland (Institute of Oceanology PAN), on the CHEMSEA and MODUM projects.
- Presentation 10** Terry Long, IDUM, on international work on underwater munitions, including the UNGA resolution 68/208 as well as the work toward the international convention on underwater munitions .
- Presentation 11** Anna Sosnowska, Poland (Chief Inspectorate of Environmental Protection) on the UMBRELLA initiative and website.