



OUTCOME OF THE ELEVENTH MEETING OF THE HELCOM-VASAB MARITIME SPATIAL PLANNING WORKING GROUP (HELCOM-VASAB MSP WG 11-2015)

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OUTCOME OF THE ELEVENTH MEETING OF THE HELCOM-VASAB MARITIME SPATIAL PLANNING WORKING GROUP (HELCOM-VASAB MSP WG 11-2015)

Introduction

- 0.1 The Eleventh Meeting of the joint HELCOM-VASAB Maritime Spatial Planning Working Group (HELCOM-VASAB MSP WG 10-2015) was held on 30 September-1 October 2015 in Riga, Latvia.
- 0.2 The Meeting was attended by representatives of all HELCOM and VASAB members, except for Belarus, Lithuania and Norway. The Meeting was also attended by Coalition Clean Baltic (CCB), the Coastal and Marine Union (EUCC) and WWF as Observers. The List of Participants is contained in **Annex 1**.
- 0.3 The Meeting was chaired by the Co-chairs of the Working Group, Mr. Andrzej Cieslak, Poland, and Ms. Anita Mäkinen, Finland.
- 0.4 Mr. Talis Linkaits, Head of VASAB Secretariat, welcomed the participants to the Meeting.
- 0.5 Ms. Monika Stankiewicz, Executive Secretary of HELCOM, introduced the newly assigned staff to deal with MSP in the HELCOM Secretariat, Mr. Dmitry Frank-Kamenetsky, Professional Secretary, and Ms. Leena Laamanen, HASPS Project Coordinator.
- 0.6 Ms. Laura Meski, Assisting Professional Secretary of HELCOM, acted as Secretary of the Meeting.

Agenda Item 1 Adoption of the Agenda

Documents: 1-1, 1-2

- 1.1 The Meeting adopted the Agenda (document 1-1) elaborated by the HELCOM and VASAB Secretariats in consultation with the Chairs.

Agenda Item 2 Regional coordination and policy follow-up

Documents: 2-1, 2-2

- 2.1 The Meeting took note of recent developments and activities related to the EU Strategy for the Baltic Sea Region (EUSBSR) and Horizontal Action (HA) Spatial Planning for which HELCOM and VASAB act as the Horizontal Action Coordinators (HACs) and the HELCOM-VASAB MSP WG acts as the Steering Committee concerning the MSP part (document 2-1).
- 2.2 EU informed that the next EUSBSR Annual Forum is planned to be held in November 2016 in Sweden as well as suggested to include references to HA Spatial planning in future invitations to Working Group meetings.
- 2.3 The Meeting took note of the following information by EU on processes related to the EU Directive on MSP:
- supporting guidelines are under development for technical aspects,
 - the Member State Expert Group (MSEG) on MSP had a meeting on 4-5 June 2015 in Lisbon, Portugal. The next meeting will be held on 8 December 2015 in Brussels, Belgium,
 - transposition checklist for the Directive is being developed by the MSEG on MSP,
 - observership of three organizations to MSEG on MSP is currently under consideration within the MSEG.
- 2.4 The Meeting took note of the information by the HELCOM Secretariat that an application for observership to the MSEG on MSP has recently been submitted for consideration by the MSEG and will be shared with the HELCOM-VASAB MSP WG.

2.5 The Meeting took note of the following information by the EU Member States on national MSP developments in relation to implementation of the Directive:

- Denmark: An interministerial process is ongoing to prepare MSP legislation. A public hearing will take place afterwards. Draft MSP legislation is expected to be presented in spring 2016 in order to have the MSP Directive regarding legislation implemented by summer 2016. The planning process will start at the earliest in second half of 2016.
- Estonia: A new Planning Act entered into force in July 2015, which brings MSP to state level. A decision on funding for MSP is in place which means that the official work can start in end of 2016. The Baltic SCOPE project has helped in starting the work on mapping the current situation and collecting data etc. already earlier.
- Finland: A governmental working group is preparing MSP legislation draft, which is expected to be ready by the end of 2015.
- Latvia: The MSP Directive will be transposed by amending existing MSP law due to the deadline stated in the MSP Directive. A second round of target group involvement has been done, including meetings with Estonian and Lithuanian stakeholders Principles for zoning are under development.
- Poland: Poland is in the final stage of amending the legal base for MSP. Poland will inform EU on the complete transposition of the MSP Directive in the beginning of 2016. A schedule is in place for starting planning. A first draft of the plan should be ready in two years.
- Sweden: The MSP Directive was transposed by 15 July 2015. The first action was to initiate a public consultation on a guidance document including proposals on planning objectives and planning strategies as well as regional issues to be highlighted in the planning process. Later this autumn the document will be available in English and sent out to the neighbouring countries. In parallel actual planning is starting with the aim to have the first draft plans by October 2016. Plan proposals are expected to be delivered to the Government in early 2019.

2.6 The Meeting also took note of the following developments of MSP in Russia:

- In December 2010 the "Strategy of the Russian Federation marine activity development till the year of 2030" was adopted by the Russian Federation Government's Act. It foresees use and development of MSP approaches as one of the perspective areas of marine activity development.
- In 2014, as part of work on the Gulf of Finland Year 2014, a maritime spatial plan for the Russian part of the Gulf of Finland was developed. The plan was submitted for consideration to Finland and Estonia.
- In 2014, the Ministry of Regional Development developed a Concept of the Law "On the offshore maritime spatial planning in the Russian Federation", but in September the same year, work on the law was terminated in connection with the liquidation of the ministry.
- In October 2015, Moscow will host a workshop starting on integrated environmental management in the Bering Sea, using maritime spatial planning tools.
- In 2015, the Russian Government approved the Concept of the Federal Target Program "World Ocean 2016-2031", in which assumes implementation of measures for the study and comprehensive development of the country's coastline, including the application of ICM and MSP tools. The development of this program started now.
- In 2016, resumption of the drafting of the Federal Law "On maritime spatial planning" is planned, this work is initiated by the Ministry of Economic Development, the Federation Council, the State Duma of Russian Federation.

2.7 The Meeting stressed the relevance of the work being done by the Working Group in relation to the obligations of the Baltic Sea countries being EU Member States under MSP Directive, especially on transboundary consultations.

2.8 The Meeting took note of the information by the HELCOM Secretariat on the development of the indicator-based system to follow up the HELCOM Baltic Sea Action Plan, the HELCOM Ministerial commitments and HELCOM Recommendations (document 2-2).

2.9 The Meeting reviewed the MSP-related commitments in HELCOM that are proposed to be followed-up within the system and supported the selection, noting that the implementation of the remaining commitments will be reviewed and discussed as part of the regular work of Working Group and as needed.

2.10 The Meeting noted that the timetable for reporting by the Contracting Parties on their implementation of the commitments, including those on MSP is to be decided by the HELCOM Heads of Delegation meeting in December 2015.

Agenda Item 3 Implementation of the Regional Baltic Roadmap 2013-2020

Documents: 3-1, 3-2, 3-2-Rev.1. 3-2-Rev.2

3.1 The Meeting recalled that according to the [Regional Baltic Maritime Spatial Planning Roadmap 2013-2020](#) guidelines on the ecosystem approach, transboundary consultations and cooperation, and public participation are to be drafted and adopted by 2015 and applied by 2018 and that HELCOM-VASAB MSP WG 10-2015 agreed to work on the guidelines on transboundary consultations and cooperation, and public participation as one document (cf. paragraph 3-15 of the Outcome of the Meeting).

3.2 The Meeting considered the third draft of the Guidelines on transboundary consultations, public participation and co-operation (document 3-2-Rev.1), which have been drafted by a Task Force under the lead of Poland.

3.3 The Meeting welcomed the work done on the guidelines and overall was of the opinion that it is a substantial document that provides the very much needed regional framework for transboundary consultation and cooperation over national maritime spatial plans, allowing for sharing information early in the process of preparing the plans. Such a common framework is currently lacking and taking into account that a number of Baltic Sea countries are already preparing or updating their plans, the guidelines are of a great assistance, including in fulfilling the MSP Directive requirement on transboundary consultation (as far as EU countries are concerned).

3.4 The Meeting took note of the following comments on the guidelines:

- by Sweden and Latvia to make use of the existing projects for thematic discussions before establishment of new experts groups,
- by Sweden that the guidelines should not pre-judge about the mandate of national contact points and that experts for expert groups could also be representing national views,
- by Germany that some additional time is requested to consider the guidelines nationally in relation to existing legislation in Germany,
- by Denmark that they appreciate and support the development of guidelines but that they are not in the position to adopt any legally binding guidelines at this point in time due to the ongoing process of developing MSP legislation.

3.5 The Meeting discussed and clarified the status of the guidelines and reached a common understanding that the guidelines are legally of a non-binding character, however, the intention of the document is that eventually all Baltic Sea countries would be in position to use it and carry out transboundary consultation according to a common practice and as described in the guidelines. The Meeting noted that the countries are at different stages of MSP. However, the countries are encouraged to conduct transboundary consultations as early as possible regardless of the formal adoption of the guidelines.

3.6 The Meeting thanked Poland for the comprehensive work in leading the work and drafting the guidelines and appreciated the offer by Poland to continue leading the work until the end of 2015.

3.7 The Meeting agreed on the following procedure to finalize and agree on the guidelines as revised during the meeting and included in document 3-2-Rev.2 with the aim to make the guidelines ready for national use during 2015:

- any additional proposals for changes to the guidelines should be submitted to the lead country Poland (jacek.zaucha@im.gda.pl) in copy to the Secretariats (laura.meski@helcom.fi and info@vasab.org) **by 15 November 2015**;
- based on the comments received Poland will finalize the text of the guidelines and circulate it to the Working Group members **by 17 November 2015**,
- in case it is needed, and upon consultation between the Secretariats, Co-chairs and Poland, a remote meeting for the members of the Working Group will be called for, to be **held tentatively on 19 November 2015**, to clarify any possible outstanding issues,
- the final draft of the guidelines will be circulated to the members of the Working Group **by 1 December 2015** at the latest for a tacit agreement **by 15 December 2015**.

3.8 The Meeting took note of the information by the HELCOM Secretariat on the status of the tacit approval procedure for the guidelines on the application of ecosystem approach in transnationally coherent MSP and recalled the decision by HELCOM-VASAB MSP WG 10-2015 to use the document 3-2 as the regional guidelines, after applying editorial changes according to the following procedure: 1) consultation period for editorial comments to be submitted to the HELCOM Secretariat by 28 February 2015, 2) the final guidelines should be circulated and endorsed by the HELCOM-VASAB MSP WG contacts via tacit approval within two weeks after circulation, 3) the proposed ecosystem approach in MSP workshop would consider the implementation of the guidelines.

3.9 The Meeting took note of the information by Denmark that at this stage they are not in position to commit to any legally binding document and clarified that a common understanding of the Working Group is that the guidelines are not legally binding.

3.10 The Meeting further took note that the HELCOM Secretariat has received comments to the guidelines from the Vice-co-chair of the HELCOM State and Conservation Working Group (S&C WG), related to the previous input by the former HABITAT group of HELCOM.

3.11 The Meeting considered a proposal for the amended introductory part of the guidelines in which the status of the document has been clarified as well as a new addition on HELCOM recommendations as suggested by the Vice-co-chair of the S&C WG and agreed on the amended Guideline for the implementation of ecosystem-based approach in Maritime Spatial Planning (MSP) in the Baltic Sea area as included in **Annex 2**.

3.12 The Meeting took note of the comment by WWF supporting the guidance document but expressed concern over the weakening wording in the introduction.

3.13 The Meeting took note that a joint workshop by DG Environment and DG Mare on MSP and the environment will be held on 7 December 2015 in Brussels, Belgium, back to back with the meetings of the EU Member State Expert Group (MSEG) on MSP (8 December 2015) and the EU Expert Group on Integrated Maritime Policy (IMP) (9 December 2015). The workshop will focus on economic opportunities and environmental protection.

3.14 The Meeting was of the opinion that the HELCOM-VASAB MSP WG should be represented in the workshop and possibly inform on the work being done within the Working Group regarding the ecosystem approach in MSP.

3.15 The Meeting considered different possibilities for organizing a HELCOM-VASAB workshop on MSP and ecosystem approach as mentioned in the HELCOM-VASAB MSP WG [Work Plan 2014-2016](#), welcomed the preliminary offer by Germany to look into possibilities for hosting such a workshop as part of a project by the Federal Agency for Nature Conservation.

3.16 The Meeting took note of the information by Sweden that a task force on ecosystem approach has been set up within the Central Baltic case of the Baltic SCOPE project and the Meeting suggested that the

findings of the task force could, if involved partners find it suitable, be presented at the EU workshop and discussed more in depth in the HELCOM-VASAB workshop.

3.17 The Meeting took note of the list of competent national contact points as presented in document 3-1, agreed to keep this separate list in parallel to the information s in the country fiches as the information is more easily accessed in this way and more easily referred to and requested the Contracting Parties to provide updates, if needed, to the Secretariats (laura.meski@helcom.fi and info@vasab.org) at the latest **by 1 November 2015**.

Agenda Item 4 Guidance on information and data for MSP

Documents: 4-1, 4-2

4.1 The Meeting noted that the Terms of Reference for the Baltic Sea Region MSP Data Expert Sub-Group (BSR MSP Data ESG) have been approved by HELCOM 36-2015 and VASAB CSPD/BSR on 3 March 2015 and reaffirmed by 69th VASAB CSPD/BSR meeting on 25-26 May 2015. The first meeting of the Sub-group will be held on 1-2 October 2015 in Riga, Latvia. The outcomes of the work by the Sub-group will be regularly reported to the HELCOM-VASAB MSP WG.

4.2 The Meeting, considered the data sub-group to be a test case for any future possible sub-groups if found an appropriate working method.

4.3 The Meeting took note of the ongoing HELCOM work within the second holistic assessment of the ecosystem health (HOLAS II) to establish a regional Baltic list of relevant human activities and pressures on the marine environment (document 4-2) and supported the usability of the list on for MSP purposes, especially linking of uses of the sea/human activities to pressures on the marine ecosystems which will also be identified within HOLAS II.

4.4 The HELCOM Secretariat clarified that the scoring of the impacts from pressures on various ecosystem components will be improved further from the work previously done in HOLAS I.

4.5 Poland pointed out that relevant activities on underwater tourism (underwater cultural heritage) and specific types of aquaculture, sequestration of CO₂ as well as beneficial uses such as Marine Protected Areas (MPAs) and nature conservation areas are also relevant to be included in the lists.

4.6 The Meeting took note of the information by the HELCOM Secretariat that further feedback to the work on the list can be forwarded through national HOLAS contacts and at the HELCOM Workshop on the HOLAS II Pressure and Impact Index on 13 November 2015 in Helsinki, Finland.

4.7 The Meeting took note of the presentation by Ms. Lena Avellan, Project Manager at the HELCOM Secretariat, on the HELCOM indicator based assessment system and the development of the Second Holistic Assessment of Ecosystem Health in the Baltic Sea (in the project HOLAS II), which is expected to be prepared by mid-2017 and updated by June 2018 (document 4-1, **Presentation 1**). The assessment will give an update of the overall environmental status of and pressures on the Baltic Sea and evaluate progress in relation to the goals of the HELCOM Baltic Sea Action Plan by evaluating progress towards quantitative targets defined through the core indicators. The second holistic assessment will also be used as a roof report by the Contracting Parties of HELCOM that are also EU Member States in their reporting on Article 8 of the EU Marine Strategy Framework Directive (MSFD) in 2018.

4.8 The Meeting appreciated the information and considered the assessment data products to be valuable for MSP, discussed how the data could be made best use of to be as relevant for spatial planners as possible and was of the opinion that this needs further effort. The Meeting noted that the underlying data should be made available in as detailed level as possible and the electronic presentation of the selected results such as on good environmental status (GES) for individual indicators or themes of the holistic assessment should be made using modern GIS solutions allowing for WMS service, noting further that WMS data links are already available for some HELCOM data.

4.9 The Meeting recognized that it would be of relevance to develop an evaluation system in which it could be possible to recognize which actions in MSP have influenced the status of the Baltic Sea in terms

of GES. As a first step to complete such an evaluation, the Meeting proposed that the indicators be identified for which the relevant anthropogenic pressures are such that can be mitigated using MSP practices. The Meeting noted that in the long term it will be important to evaluate which countries have implemented MSP measures that have improved the status of the Baltic Sea.

4.10 The Meeting further commented that it could be of interest from a MSP perspective to link more closely the HOLAS assessment to MPAs.

4.11 The Meeting noted that the technical details of the Baltic Sea Pressure Index (BSPI) and Baltic Sea Impact index (BSII) methodology will be discussed in a workshop on 13 November 2015.

4.12 The Meeting also noted that a maritime assessment is planned to be conducted by end of 2016 in HELCOM. The aim of the assessment is to cover all major activities at sea and to combine it with descriptive text and evaluation to be used also for HOLAS II and that it would also be of relevance for HELCOM-VASAB MSP WG.

4.13 The Meeting requested the HELCOM Secretariat to keep the Working Group updated on the developments of HOLAS II.

Agenda Item 5 MSP related projects

Documents: 5-1, 6-4

5.1 The Meeting took note of the information on the activities within the [Baltic SCOPE project](#) (Towards coherence and cross-border solutions in Baltic Sea Maritime Spatial Plans) by Mr. Joacim Johannesson, SwAM. The project is in its preparatory phase and had its external kick-off event on 29 September 2015 in Riga, Latvia. The South Western Baltic case is focusing on areas between the neighbouring countries with intensive maritime activities and the Central Baltic case is focusing on more general cross-border issues and on finding synergies. Collection and compiling of data has advanced especially related to shipping data based on AIS (provided by HELCOM) and wind parks in southern Baltic.

5.2 The Meeting took note of the presentation by Ms. Angela Schultz-Zehden, Sustainable-projects s.Pro GmbH, on the BONUS [BaltSpace project](#) (Towards Sustainable Governance of the Baltic Marine Space (document 5-1, **Presentation 2**). The main topic of the research project is on integration challenges and the main outcome is to provide science-based approaches and tools to clarify and improve the capacity of MSP as a policy integrator in the Baltic Sea Region. The project will present initial results to HELCOM-VASAB MSP WG contacts as part of the extended peer review.

5.3 The Meeting took note that the Plan4Blue project proposal (result of the Baltwise Seed Money project) will be submitted to Interreg Central Baltic programme 2014-2020 in October 2015. The project brings together the key interest groups, spatial planners and marine managers from Estonia, Finland, as well as from Russia and Åland Islands.

5.4 The Meeting took note that the Baltic LINes project proposal (Coherent Linear Infrastructures in Baltic Maritime Spatial Plans) was submitted in 2015 to Interreg Baltic Sea Region Programme 2014-2020 and that the financial decision is expected in November 2015.

5.5 The Meeting took note of the presentation by Ms. Marianne Lehtimäki on the BSR Integrated Maritime Heritage Management project proposal (document 6-4, **Presentation 3**), which is intended to be submitted to the 2nd call of the Interreg Baltic Sea Region Programme 2014-2020 in 2016. The project has been approved as a flagship project under EUSBSR PA Culture in September 2015.

5.6 The project team clarified that the legal protection tools (e.g. UNESCO Convention) form the framework for the project but the target of the project is to elaborate the cultural heritage knowledge and databases for MSP use.

5.7 The Meeting underlined the need of involvement of planners/planning competences in the project.

5.8 The Meeting also took note of the MSP & BSR Integrated Maritime Heritage Management project proposal for the EUSBSR Seed Money Facility. The seed money is planned to be used for studying the MSP dimensions for tailoring pilot actions and partnerships for the flagship project. Project partners for the seed money project proposal are Estonia, Finland Germany, Poland and. Sustainable-projects s.Pro GmbH. No mapping is planned to be done in the project but data bases will be improved.

5.9 The Meeting took note that HELCOM has an ongoing process on to collecting information on lost fishing gear, wrecks, dumped munition etc.

5.10 The Meeting welcomed the project proposals and requested the Co-chairs of the meeting to sign a letter of support for MSP & BSR Integrated Maritime Heritage Management project proposal for the EUSBSR Seed Money Facility.

Agenda Item 6 Any other business

Documents: 6-1, 6-2, 6-3, 6-3-Rev.1, 6-5

6.1 The Meeting was informed on the updated country fiches from Estonia, Germany and Poland, that Latvia and Sweden will provide updates to the country fiche shortly, that the Danish country fiche is up to date and that Finland and Russia have filled in their country fiches (document 6-5). All country fiches will be made available on the [HELCOM](#) and [VASAB](#) web pages.

6.2 The Meeting took note of a new book “Transboundary Maritime Spatial Planning and International Law”.

6.3 The Meeting discussed the Consultation on International Ocean Governance (document 6-1) which has been extended until 15 October 2015 and took note of the information by Germany that a ministerial level response is under preparation and by Sweden that the consultation is considered important and a response is under preparation.

6.4 The Meeting encouraged HELCOM and VASAB members to respond to the Consultation.

6.5 The Meeting appreciated the WWF Principles for a Sustainable Blue Economy 2015 (document 6-2) as a valuable contribution in considerations on Blue Growth.

6.6 The Meeting checked and updated the list of nominated experts for the HELCOM-VASAB MSP WG (document 6-3-Rev.1) as contained in **Annex 4**.

Agenda Item 7 Future work and meetings

Documents: 7-1, 7-2, 7-2-Rev.1

7.1 The Meeting took note of the HELCOM-VASAB MSP WG Work Plan 2014-2016 (document 7-1) and noted that work is progressing in line with the Work Plan.

7.2 The Meeting discussed the scope and purpose of the future oriented report on MSP mentioned under point 4.5 in the Work Plan and considered various ideas for the content of such a report that could be a compilation of results and outcomes of past and ongoing projects covering future oriented perspectives, such as within Baltic SCOPE, or be a critical view on what the future will bring for MSP.

7.3 The Meeting agreed that the report should be concise and utilize the available reports e.g. OECD, HELCOM maritime assessment and possibly Swedish and Polish stocktaking reports.

7.4 The Meeting welcomed the offer by the VASAB Secretariat to look into possibilities for financing of such a report as part of the EUSBSR Technical Assistance for EUSBSR Priority Area Coordinators and Horizontal Action Coordinators. HELCOM will be able to offer information and data that will be ready by the time of preparing the report, such as the outcome on analysis of ecological coherence on HELCOM MPAs.

7.5 The Meeting decided to consider further the scope and purpose of the maritime report based on Terms of Reference to be developed for the next meeting and welcomed the offer by Sweden, with the assistance of the Secretariats and Co-chairs, to make a first draft for Terms of Reference.

7.6 The Meeting took note of the point made by the Co-chair, Mr. Cieslak on the emerging need for a Baltic-wide agreement on regional sea consultation for MSP.

7.7 The Meeting took note of the list of upcoming meetings within HELCOM and VASAB (document 7-2-Rev.1) and decided that the next meeting of the Working Group (HELCOM-VASAB MSP WG 12-2016) will be held in last week of February 2016 (tentatively 25-26 February 2015) and welcomed the kind offer by Poland to host the meeting in Gdansk, back to back with the VASAB CSPD/BSR 70th meeting and a MSP Workshop (tentatively on 24 February 2015).

7.8 Poland suggested that the topic of the MSP workshop could be on assessment of the implementation of the MSP Roadmap, as it is required to be done in 2016 according to the Roadmap, and invited the members of the Working Group to provide feedback on the content of the workshop to Poland (katarzyna.krzywda@mir.gov.pl) **by 23 October 2015**.

7.9 The Meeting decided that the focus of the next meeting of the Working Group (HELCOM-VASAB MSP WG 12-2016) will be on:

- progress in fulfilling the mandate of the Working Group and drafting a work plan for a new period including the working methods of the Working Group,
- the report from the BSR MSP data ESG,
- the Terms of Reference for the future oriented MSP report
- planning for a possible workshop on ecosystem approach in MSP pending confirmation on hosting (c.f paragraph 3.15) and utilizing the Baltic SCOPE task force on ecosystem approach
- outcome of the MSP workshop.

7.10 The Meeting thanked VASAB for the splendid arrangements of the meeting.

Agenda Item 8 Outcome of the Meeting

Documents: 8-1

8.1 The Meeting adopted the draft Outcome of the Meeting as contained in document 6-1.

8.2 The final Outcome of the Meeting has been finalized by the HELCOM Secretariat and made available in the [HELCOM Meeting Portal](#) as well as on the [VASAB website](#), together with meeting documents and the presentations considered during the Meeting.

Annex 1 List of Participants

Representing	Name	Organization	E-mail address
Co-chair	Andrzej Cieślak	Maritime Office in Gdynia	cieslak@umgd.gov.pl
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Contracting Parties			
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Invited guests			
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Guideline for the implementation of ecosystem-based approach in Maritime Spatial Planning (MSP) in the Baltic Sea area

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1. Introduction

This paper presents non-binding guidance for implementing the ecosystem-based approach¹ in the context of maritime spatial planning (MSP) in the Baltic Sea. It presents a first step towards a common understanding on how the ecosystem-based approach can be applied in drawing up a spatial plan for a sea area in accordance with spatial planning legislation in force in the Baltic Sea countries. The aim is that this document will be tested in practice and, subsequently, amended as may be needed according to experiences gathered.

It is also worth noting that the application of the ecosystem-based approach is wider than "establishing the plan", as it involves basic horizontal principles to be applied both in sectoral management and in the different steps throughout the spatial planning process.

2. Special features of spatial planning at sea

Sea areas are in many aspects different from land. Territorial waters are often owned and/or managed by a state, while land areas are mainly in private ownership. Within their exclusive economic zone

¹ Except in direct quotes and references to content in existing official documents the "ecosystem-based approach", instead of "ecosystem approach", is used throughout this document as a general term covering both wordings, which is in line with the EU Marine Strategy Framework Directive and the EU MSP Directive.

(EEZ), coastal states have the right to do research and exploit the resources in it, but they also have a duty to protect it. The sea is regulated by international agreements and the freedom of the seas has a strong tradition.

The sea is dynamic in nature and does not have boundaries. It functions in different dimensions simultaneously, including depth and time; this creates opportunities for multifunctional uses of certain areas. Further, the sea has no human inhabitants; rather, it has economic users such as maritime industries and other stakeholders like environmental non-governmental organizations, who have an interest in its resources.

Greater activities in the Baltic Sea have led to competition for limited marine space between sectoral interests, such as shipping and maritime transport, extraction of gravel and minerals, offshore energy, ports development, tourism, fisheries and aquaculture, in addition to environmental concerns. These activities, along with climate change effects, natural hazards and shoreline dynamics such as erosion and accretion, create significant pressures on coastal and marine ecosystems.

3. Definitions of the ecosystem-based approach concept

In a Workshop on the Ecosystem Approach (Lilongwe, Malawi, 26-28 January 1998), whose report was presented at the Fourth Meeting of the Conference of the Parties to the Convention on Biological Diversity (Bratislava, Slovakia, 4-15 May 1998, UNEP/CBD/ COP/4/Inf.9), twelve principles of an ecosystem approach were identified:

- (1) Management objectives are a matter of societal choice.
- (2) Management should be decentralized to the lowest appropriate level.
- (3) Ecosystem managers should consider the effects (actual or potential) of their activities on adjacent and other ecosystems.
- (4) Recognizing potential gains from management there is a need to understand the ecosystem in an economic context. Any ecosystem management program should a) reduce those market distortions that adversely affect biological diversity; b) align incentives to promote sustainable use; c) internalize costs and benefits in the given ecosystem to the extent feasible.
- (5) A key feature of the ecosystem approach includes conservation of ecosystem structure and functioning.
- (6) Ecosystems must be managed within the limits to their functioning.
- (7) The ecosystem approach should be undertaken at the appropriate scale.
- (8) Recognizing the varying temporal scales and lag effects which characterize ecosystem processes, objectives for ecosystem management should be set for the long term.
- (9) Management must recognize that change is inevitable.
- (10) The ecosystem approach should seek the appropriate balance between conservation and use of biological diversity.
- (11) The ecosystem approach should consider all forms of relevant information, including scientific and indigenous and local knowledge, innovations and practices.
- (12) The ecosystem approach should involve all relevant sectors of society and scientific disciplines.

Resulting from these principles the Convention on Biological Diversity (CBD) (COP 5/Decision V/6) stated in May 2000 the following definition of the ecosystem approach: "The ecosystem approach is a strategy for the integrated management of land, water and living resources that promotes conservation and sustainable use in an equitable way. Thus, the application of the ecosystem approach will help to reach a balance of the three objectives of the Convention: conservation; sustainable use and the fair and equitable sharing of the benefits arising out of the utilization of genetic resources. An ecosystem approach is based on the application of appropriate scientific methodologies focused on levels of biological organization, which encompass the essential structure, processes, functions and interactions among

organisms and their environment. It recognizes that humans, with their cultural diversity, are an integral component of many ecosystems.”

HELCOM and the OSPAR Commission adopted the following definition in a joint Meeting in June 2003:

“The ecosystem approach can therefore be defined as “the comprehensive integrated management of human activities based on the best available scientific knowledge about the ecosystem and its dynamics, in order to identify and take action on influences which are critical to the health of marine ecosystems, thereby achieving sustainable use of ecosystem goods and services and maintenance of ecosystem integrity”. The application of the precautionary principle is equally a central part of the ecosystem approach.²

4. Policy context of the ecosystem-based approach — relevant aspects for MSP in the Baltic Sea

4.1. Helsinki Convention and the HELCOM Baltic Sea Action Plan (applicable to all Baltic Sea countries and the European Union)

The 1992 Helsinki Convention is an international treaty ratified by the coastal countries of the Baltic Sea and the European Commission, i.e. the Contracting Parties (CPs). Article 3 lists the fundamental principles and obligations of the CPs of relevance to an ecosystem-based approach. Paragraph 1 states that “The Contracting Parties shall individually or jointly take all appropriate legislative, administrative or other relevant measures to prevent and eliminate pollution in order to promote the ecological restoration of the Baltic Sea Area and the preservation of its ecological balance.” The same article of the Convention states that the CPs shall apply the precautionary principle, best environmental practice, best available technology and the polluter-pays principle.

The Helsinki Commission (HELCOM) is the intergovernmental organization established to oversee the implementation of this Convention. Another duty of the Commission is to make recommendations on measures related to the purposes of this Convention³. During the joint HELCOM and OSPAR Ministerial Meeting in 2003 the CP Ministers and high officials agreed to apply and further develop the measures necessary to implement an ecosystem approach by 2010, in order to give concrete effect to our commitments and to help maintain and, when practicable, restore ecosystem health, integrity and services. In a preceding official-level session they had also adopted the statement “Towards an ecosystem approach to the management of human activities”, setting out their intentions in more detail.

As a follow-up to this 2003 commitment to implement an ecosystem approach, the CPs agreed on the HELCOM Baltic Sea Action Plan (BSAP) at the 2007 HELCOM Ministerial Meeting. The BSAP includes definitions and actions for achieving a good environmental status of the Baltic Sea by 2021. A series of indicators with explicit quantitative target levels to define a good environmental status have been developed and were agreed by 2013.

The BSAP included a specific action in relation to MSP: the commitment to jointly develop broad-scale, cross-sectoral, marine spatial planning principles based on the ecosystem approach by 2010. In addition, these principles were to be tested, applied and evaluated by 2012 in cooperation with other relevant international

² [original footnote from referred document] It is understood that, in the context of the management of fisheries, the “application of the precautionary principle” has the same result as the application of the precautionary approach as referred to in, for example Article 6 of the 1995 UN Fish Stocks Agreement.

³ Examples of HELCOM recommendations adopted so far are 35/1 “System of coastal and marine Baltic Sea protected areas (HELCOM MPAs)”, 24/10 “Implementation of integrated marine and coastal management of human activities in the Baltic Sea area, 13/6 “Definition of best environmental practice, 17/3 “Information and installations affecting the Baltic Sea”, 28E/9 “Development of broad-scale marine spatial planning principles in the Baltic Sea area”

bodies, the intention being that all Contracting Parties and relevant HELCOM bodies had to participate cooperatively. The aim of the cooperation is to give guidance for planning processes, ensure the protection of the marine environment and nature, including habitats and seafloor integrity, and secure the sustainable use of marine resources by reducing user conflicts and adverse impacts of human activities.

4.2. Joint HELCOM–VASAB MSP Principles (applicable to all Baltic Sea countries and the European Union)

According to the joint Baltic Sea broad-scale MSP principles adopted by VASAB and HELCOM in 2010, the ecosystem-based approach, calling for a cross-sectoral and sustainable management of human activities, is an overarching principle for maritime spatial planning which aims at achieving a Baltic Sea ecosystem in good status — a healthy, productive and resilient condition so that it can provide the services humans want and need. The entire regional Baltic Sea ecosystem as well as sub-regional systems and all human activities taking place within it should be considered in this context. Maritime spatial planning must seek to protect and enhance the marine environment and thus, should contribute to achieving a good environmental status according to the EU Marine Strategy Framework Directive and the HELCOM Baltic Sea Action Plan (Principle 2).

4.3. EU Strategy for the Baltic Sea Region (applicable to EU Member States)

The European Union Strategy for the Baltic Sea Region (EUSBSR) aims to save the sea, connect the region and increase prosperity. Achieving the ‘Save the Sea’ objective will require direct environmental measures, along with consideration of the functions and structure of ecosystems and the limiting carrying capacity of ecosystems when developing the potential for sustainable growth in the maritime sectors.

One of the horizontal actions in the Action Plan for the EU Strategy for the Baltic Sea Region (version September 2015) is to encourage the use of maritime spatial planning in all Member States around the Baltic Sea and develop a common approach for cross-border cooperation. The implementation of this action will contribute to achieving the objectives of the Strategy.

Maritime Spatial Planning and Integrated Coastal-Management (ICM)⁴ are in the EUSBSR Action Plan (p. 166) described as “...an important tool and process for improved decision making. It helps various users to balance sectoral interests that compete for marine space, and contributes to achieving sustainable use of marine areas to the benefit of economic and social development as well as the marine environment.”

4.4. Marine Strategy Framework Directive (applicable to EU Member States)

The Marine Strategy Framework Directive (MSFD) aims at achieving or maintaining a good environmental status in the marine environment by 2020 at the latest. It is the first legislative instrument in relation to the marine biodiversity policy in the European Union and contains the explicit regulatory objective that "biodiversity is maintained by 2020" as one cornerstone for achieving a good environmental status.

It enshrines in a legislative framework the ecosystem-based approach to the management of human activities, integrating the concepts of environmental protection and sustainable use. The MSFD also calls for cooperation within marine regions such as the Baltic Sea, in order to reach the objective of Good Environmental Status of the marine environment by 2020.

The Directive states, in particular, that marine strategies shall apply an ecosystem-based approach ensuring that the collective pressure of human activities is kept within levels compatible with the achievement of a good environmental status and that the capacity of marine ecosystems to respond to human-induced changes is not compromised, while enabling the sustainable use of marine goods and

⁴ Please note that there is a European Parliament and Council Recommendation (2002/413/EC) concerning the implementation of Integrated Coastal Zone Management (ICZM) in Europe, adopted on 30 May 2002

services by present and future generations.

Both programmes of measures and individual measures shall be based on such an ecosystem-based approach.

As a first step to achieving a good environmental status, all Member States have produced an initial assessment of the environmental status of their national parts of the Baltic Sea. The next step is for Member States to develop monitoring programmes and programmes of measures, including spatial protection measures, to achieve a good environmental status.

Spatial and temporal distribution controls, in terms of management measures that influence where and when an activity is allowed to occur, are identified among the types of measures. That should be considered when devising the measures which can support an ecosystem-based approach and which can help to identify sources of pressures and impacts, including cumulative and synergetic effects, and may include, as one example, also MSP.⁵

When MSP is included in the marine strategies and programmes of measures, it needs to be based on an ecosystem-based approach under consideration of all relevant MSFD requirements. This allows planning of human activities and uses that respects the carrying capacity of ecosystems along with maintenance and, when necessary, restoration of ecosystems.

4.5. EU Maritime Spatial Planning Framework Directive 2014 (applicable to EU Member States)

The EU Maritime Spatial Planning Framework Directive (2014/89/EU) aims to set the framework for maritime spatial planning with the objective of promoting the sustainable growth of maritime economies, sustainable development of marine areas and sustainable use of marine resources, applying an ecosystem-based approach, promoting the coexistence of relevant uses and activities and taking into account land-sea interactions. In this sense, the ecosystem-based approach must seek to contribute to the sustainability of development of marine areas, of activities at sea and of uses of marine and coastal resources.

Article 5 of the MSP Directive defines objectives of maritime spatial planning as follows:

“1. When establishing and implementing maritime spatial planning, Member States shall consider economic, social and environmental aspects to support sustainable development and growth in the maritime sector, applying an ecosystem-based approach, and to promote the coexistence of relevant activities and uses.

2. Through their maritime spatial plans, Member States shall aim to contribute to the sustainable development of energy sectors at sea, of maritime transport, and of the fisheries and aquaculture sectors, and to the preservation, protection and improvement of the environment, including resilience to climate change impacts. In addition, Member States may pursue other objectives such as the promotion of sustainable tourism and the sustainable extraction of raw materials.

3. This Directive is without prejudice to the competence of Member States to determine how the different objectives are reflected and weighted in their maritime spatial plan or plans.”

The Directive requires EU Member States to establish maritime plans before 31 March 2021 and apply the ecosystem-based approach to enable the sustainable development of maritime activities and the preservation, protection and improvement of the environment. The ecosystem-based approach should be applied in a way that is adapted to the specific ecosystem of the Baltic Sea, building on existing knowledge

⁵ Annex VI of Directive 2008/56/EC in connection with Annex part A.6 of Commission Decision 2010/477/EU.

and experiences. The Directive recognizes that applying the ecosystem-based approach requires adaptive management. It should ensure refinement and further development as experiences and knowledge increases, and take into account the availability of data and information at sea basin level.

5. Key elements for applying the ecosystem-based approach in MSP

The following key elements of the ecosystem-based approach have been identified as an operationalization of the ecosystem-based approach in line with the Malawi Principles. They need to be applied in planning in an integrated way by taking into account environmental, social, cultural, economic, legal and technical perspectives.

The joint Baltic Sea broad-scale MSP principles adopted by coastal countries of the Baltic Sea and VASAB and HELCOM in 2010 define the ecosystem approach in principle 2 (see 5.2 4.2]).

In addition to the Baltic Sea broad-scale MSP Principles the following issues need to be considered when developing MSP in the Baltic Sea:

- **Best available Knowledge and Practice:** The allocation and development of human uses shall be based on the latest state of knowledge of the ecosystems as such and the practice of safeguarding the components of the marine ecosystem in the best possible way.
- **Precaution:** A far-sighted, anticipatory and preventive planning shall promote sustainable use in marine areas and shall exclude risks and hazards of human activities on the marine ecosystem. Those activities that according to current scientific knowledge may lead to significant or irreversible impacts on the marine ecosystem and whose impacts may not be in total or in parts sufficiently predictable at present require a specific careful survey and weighting of the risks.
- **Alternative development:** Reasonable alternatives shall be developed to find solutions to avoid or reduce negative environmental and other impacts as well as impacts on the ecosystem goods and services.
- **Identification of ecosystem services:** In order to ensure a socio-economic evaluation of effects and potentials, the ecosystem services provided need to be identified.
- **Mitigation:** The measures are envisaged to prevent, reduce and as fully as possible offset any significant adverse effects on the environment of implementing the plan.
- **Relational Understanding:** It is necessary to consider various effects on the ecosystem caused by human activities and interactions between human activities and the ecosystem, as well as among various human activities. This includes direct/indirect, cumulative, short/long-term, permanent/temporary and positive/negative effects, as well as interrelations including sea-land interaction.
- **Participation and Communication:** All relevant authorities and stakeholders as well as a wider public shall be involved in the planning process at an early stage. The results shall be communicated. Integrated Coastal Management (also known as ICM), as an informal and flexible instrument, can support the process of participation and communication.
- **Subsidiarity and Coherence:** Maritime spatial planning with an ecosystem-based approach as an overarching principle shall be carried out at the most appropriate level and shall seek coherence between the different levels.
- **Adaptation:** The sustainable use of the ecosystem should apply an iterative process including monitoring, reviewing and evaluation of both the process and the outcome.

The key elements of the ecosystem-based approach are integrated into the planning process in a general way and some of them are integrated more specifically into strategic environmental assessment (SEA) as part of the planning process. Some of the key elements such as public participation and communication, subsidiarity and coherence, identification of ecosystem services, adaptation and the precautionary principle are applicable to the general planning process. The identification of ecosystem services can provide a new approach to the management of the sea and should contribute to the planning of sea areas

as well.

6. Available knowledge on ecosystems of the Baltic Sea

It is crucial to identify existing marine ecosystems and their structures and functions to be able to protect them and to benefit from the ecosystem services they provide.

A major challenge to implementing the ecosystem-based approach is to gather system-based knowledge on the structures and functions of ecosystems, as well as on the direct and indirect impacts on these structures and functions from various human uses and the interactions among them.

Since 1974, HELCOM has collected regional Baltic Sea monitoring data and, based on these, published reports on a wide range of issues. A series of reports have been published regularly, including assessments of environmental status (e.g. eutrophication, hazardous substances, radioactivity, climate change, status of biodiversity, including fish) and of human activities (e.g. ship traffic, ship accidents, pollution from ships and pollution load from land). More condensed products, such as shorter indicator reports, have been published as well. A set of databases contain the underlying raw data and GIS information; these databases are available via the regional HELCOM GIS. In an attempt to integrate such information into a single product, in 2010 HELCOM published an Initial Holistic Assessment of “Ecosystem Health of the Baltic Sea”, including a compilation of human pressures (Box 1).

In addition to HELCOM’s work, all the EU Member States have made initial assessments of the overall environmental status of their sea areas, including economic and social assessments as part of the implementation of the Marine Strategy Framework Directive (MSFD). Additionally, the International Council for the Exploration of the Sea (ICES), some United Nations agencies and European services have various databases with relevance to implementing the ecosystem-based approach in maritime spatial planning.

Box 1: Information on ecosystem impacts in the Baltic Sea region and main results of the 2010 HELCOM Initial Holistic Assessment.⁶

⁶ The HELCOM Initial Holistic Assessment (2010, next foreseen 2018) is an overall assessment of the Baltic Sea. The 2010 results produced with the HOLAS tool and the Baltic Sea Pressure/Impact Indices (BSPI/BSII) were considered as preliminary and subject to further elaboration and improvement. The same is valid for the status classifications, especially as far as they concern the indicators used in assessing eutrophication (HEAT), biodiversity (BEAT) and hazardous substances (CHASE). Discrepancies between HELCOM status classifications and national WFD assessments arise due to differences in spatial and temporal scaling as well as due to the use of different parameters.

1. A map of Ecosystem Impacts in the Baltic Sea

Blue = Low level of impact on the ecosystem from human activities; Red = High level of impact on the ecosystem from human activities. Based on information from a large number of human activities and on ecosystem components.

2. A summary of the main results of the HELCOM Assessment of Ecosystem Health 2010

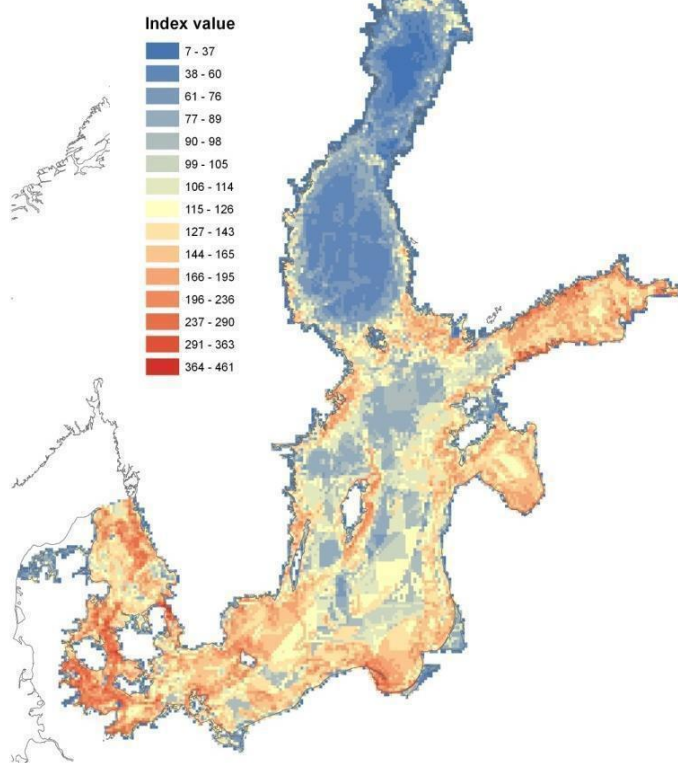
The assessment of the ecosystem health of most of the areas indicates that the status is impaired.

Bothnian Bay: Regarding biodiversity, it seems that the status is good in Swedish coastal waters and only the open parts of the Bothnian Bay and Finnish coastal waters are likely to have an unfavorable status.

Bothnian Sea: One assessed area in the Swedish coastal waters is classified as good. The biodiversity of the Bothnian Sea in general is good, for both the open parts and most of the coastal waters.

Gulf of Finland: Eutrophication and hazardous substances are the major and most widespread problems. Biodiversity generally has an unfavorable status in both open and coastal waters. However, results indicate that isolated coastal waters along the Estonian coast might have a favorable conservation status.

Baltic Sea Impact Index



Gulf of Riga: The Gulf is affected by eutrophication, especially in the northern and central parts. Regarding the status of hazardous substances, the Gulf is impaired and the same is true for the conservation status of biodiversity.

Baltic Proper: The assessment and classification of the ecosystem health of open parts of the Northern, Western and Eastern Baltic Proper indicate that these areas have the lowest overall status in the Baltic Sea. Eutrophication is a significant problem, as are also hazardous substances and a decline in biodiversity. No positive signals were encountered.

Gulf of Gdansk: Eutrophication is a major problem, biodiversity is under significant pressure and the status of hazardous substances is disturbed. These are consequences of discharges from the large, highly populated catchment area.

Bornholm and Arkona Basins: Eutrophication and contamination by hazardous substances are significant issues and in combination with the pressures from fishing, biodiversity status has become significantly impaired. The Arkona Basin is in a slightly better condition than the Bornholm Basin.

Kattegat and Belt Sea: Hazardous substances have elevated levels and biodiversity has an impaired status, while eutrophication is a problem mainly in the southern Kattegat and the Belt Sea.

Kiel Bight and Mecklenburg Bight: Eutrophication, degraded biodiversity and contamination with hazardous substances are all significant issues.

7. Description of the maritime spatial planning process

7.1. Background

In order to ensure the sustainability of the various uses and the environmental health of marine areas, maritime spatial planning and integrated coastal management will have to employ an ecosystem-based approach that ensures the sustainable use and protection of the natural resources that provide the basis for carrying out the various activities. The aim is to ensure that the collective pressure of all human activities is kept within levels compatible with a good environmental status and that the capacity of the ecosystem to respond to human-induced changes is not compromised while enabling the use of marine goods and services by present and future generations.

Taking into account the interrelationship between land and sea, there is a need to reconcile terrestrial spatial planning processes with maritime spatial planning processes. In some of the Baltic Sea countries, spatial planning legislation is already implemented in the sea areas. In some cases this has been done via an extension of terrestrial planning regimes, while other countries have adopted separate MSP systems.

Therefore, it is reasonable to examine how the ecosystem-based approach can be implemented in the existing spatial planning processes. The inclusion of the ecosystem-based approach in the main phases of the planning process is outlined in the table at the end of this section.

An important point is that the formulation of plans is the outcome of a wider planning process following different operational steps, including a needs assessment, the setting of objectives, public and stakeholder consultations, the underpinning of the knowledge base, and so on.

A formal planning process is usually started only when there is a need for a legally binding agreement. However, many aspects of planning processes are done in other — partly informal — ways; for example, surveys, strategies or agreements with the aim of arranging uses and functions of areas.

Developing a Maritime Spatial Plan based on the ecosystem-based approach requires a vision on the use of the maritime area in question. This vision must incorporate both environmental factors and human uses and it needs to be in line with the regional marine strategy, in case of the Baltic Sea, the BSAP.

So far management decisions are rarely coordinated among the different sectors involved in planning processes and neither between states. Hence, conflicts between human activities and environmental protection and/or nature conservation needs are often not mitigated and consequently have impacts on the marine and coastal environment and nature (incl. ecosystem services).

A cross-sectoral MSP applying the ecosystem-based approach has to integrate, organize, allocate and create opportunities for human activities and demands in marine areas in such a way that the ecosystem, including all its components, dynamics, limits and ecological functions, is safeguarded and a good environmental status (GES) is not compromised while the different social and economic demands on maritime resources are recognized.

MSP applying the ecosystem-based approach protects these ecosystem functions, while enabling sustainable use through an integrated approach, where all activities must be carried out in a way that enables the sustainable use of marine goods and services by present and future generations. This may include the designation of zones with priority for marine nature and/or zones with restricted or no uses. In particular, the ecosystem-based approach requires that the collective effects of pressures from human activities are considered. This includes pressures and discharges from land and air emissions that affect the maritime zone. These collective impacts must be kept within such limits that the capacity of marine ecosystems to recover and a good environmental status are not compromised.

Thus, the ecosystem-based approach provides the ecological, social and economic facts (via ecosystem

services), guiding principles, targets and limits to be considered in the MSP process, according to their spatial relevance, and to be transformed into spatial planning options (regulations and designations). In addition, MSP must comply with mandatory regulations of sectoral environmental law (e.g. prohibitions according to the species conservation regulations; no negative effects on the goals of marine protected areas including NATURA 2000 and HELCOM MPAs and the implementation of the Common Fisheries Policy).

Strategic environmental assessment (SEA) is an important tool for implementing the ecosystem-based approach in maritime spatial planning as it identifies, describes and assesses the likely significant effects on the ecosystem. According to EU law (Directive 2001/42/EC) a SEA has to be carried out before a maritime spatial plan can be approved by the responsible authority in accordance with the criteria set out in this Directive and as required by the MSP Directive. This includes the preparation of an environmental report, the carrying out of public consultations, the taking into account of the environmental report and the results of the consultations in decision-making and the provision of information on the decision. In addition, for EU Member States, impact assessments of habitats and species (Art. 6 of the Habitats Directive 92/43/EEC) and of bird sanctuaries (Birds Directive 2009/147/EC) are obligatory.

7.2. Maritime spatial planning process and the ecosystem-based approach

Spatial planning (town and country planning/zoning) has long traditions. Each country has developed its own planning procedures and planning systems according to its own needs. The planning culture, levels, goals, content and legal effects may vary from country to country and case by case. Different planning levels usually have different tasks. More general plans can guide more detailed planning on a lower level. Spatial planning has been implemented mostly on land, but, in many cases, has also been extended into sea areas. In the table below, it is assumed that the spatial planning system is simply extended as such to the sea area. The ecosystem-based approach has a broader perspective in the management of sea areas, but spatial planning can provide a good tool for arranging and integrating different uses of the sea. The planning procedure is a negotiation process and the plan is the final outcome of it. It is also worth noting that the planning process is an iterative procedure. It starts with general-level discussions of, for example, goals, costs and impacts, and moves into deeper-level discussions as the knowledge increases. Impact assessments might demand more investigations during the planning process and these are done throughout the planning procedure to be able to make sustainable decisions.

Spatial planning has its own goals while each planning level has its own goals as well. One of the main goals of spatial planning is the requirement to safeguard a good living environment and biodiversity. During the planning process, several planning options are considered and official consultations are held with the general public and stakeholders, but unofficial consultations are also carried out during the whole planning procedure. The assessment of the environmental impacts of each planning option provides information to the public, stakeholders and decision-makers on how to choose the option with the least environmental impacts. Assessing the full array of interactions between ecosystems and human activities is a key element of the planning procedure and a prerequisite for sustainable solutions.

In some planning systems SEA⁷ is fully integrated into the planning process, and participation and environmental impact assessment are key elements of it, which are also reported in the planning documents. In other planning systems, SEA seems to be a separate procedure and the SEA report is produced separately. However, the planning procedure has some common features in all countries and can be applied in maritime spatial planning as well. In maritime spatial planning SEA should be fully integrated into the planning procedure, for EU Member States as required by the EU MSP Directive.

⁷ In the Russian Federation the Federal Legal Act on Environmental Impact Assessment and its sub-ordinate acts cover also spatial plans on land.

In Table 1 an overview of implementing the ecosystem-based approach in maritime spatial planning is presented. The left column shows the main phases of the maritime spatial planning process which can also be seen as a SEA procedure in planning cases where SEA is not fully integrated into the planning system. In accordance to that, the right column shows how the corresponding integration of the ecosystems and their functioning and other relevant aspects of the ecosystem-based approach are taken into account in the different phases of the planning process.

Table 1: Implementation of the ecosystem-based approach in the maritime spatial planning process

The left column details the steps of the general planning procedure in MSP. The right column highlights those aspects of the planning procedure which require specific attention when applying an ecosystem-based approach, gives additional advice on how to implement those aspects, and lists additional aspects to be taken into account during the planning procedure in order to optimally apply the ecosystem-based approach as required by HELCOM–VASAB.

Spatial planning procedure / MSP PLANNING PROCEDURE— general steps	ECOSYSTEM-BASED APPROACH (EBA) as part of the planning procedure
1. STARTING	
1.1 Decisions taken when starting the preparatory process for a maritime spatial plan	
<ul style="list-style-type: none"> — Politicians make the decision on the start of the planning process based on an identification of the problem (problem definition) — Politicians approve the necessary resources for supporting the planning process — Planning authorities are in charge of drafting plans in accordance with the national legislation; they will lead the planning process — For a cross-border planning process, a public authority or authorities have to be determined for drafting the plan and a public authority for accepting or ratifying it — The planning authority drafts and approves the work plan, and establishes the participation procedure and the environmental impact assessment procedure — Inform the public of the start of the planning process and what it is for 	<ul style="list-style-type: none"> — Identify all relevant environmental and other authorities and stakeholders that should be involved in applying the ecosystem based approach — Identify the different steps to be carried out for the Strategic Environment Assessment (SEA) to implement the ecosystem-based approach in MSP
1.2 Starting points	
<ul style="list-style-type: none"> — Define the planning area — Identify the starting point and goals on a general level — Identify and analyse the current and potential resources, activities and uses, in the planning area — Identify sustainability criteria 	<ul style="list-style-type: none"> — Identify the ecological conditions (temporal and spatial) in the planning area and as a part of a larger entity — Identify ecologically important areas including those with high biodiversity, valuable habitats, Natura 2000 sites, HELCOM MPAs and other Marine Protected Areas — Identify the functions of the marine ecosystems and ecosystem goods and services in the planning area and surroundings and their links to ongoing and future maritime activities — Identify strategic goals and ecological objectives (according to the BSAP) as well as

1.3 Content of the plan	
<ul style="list-style-type: none"> – Define preliminary planning options concerning the content of the plan 	<ul style="list-style-type: none"> – Develop preliminary planning options/ strategies based on the ecological status, important areas, MPAs as priority areas, ecosystem services, strategic goals and ecological objectives, as well as economic and social objectives
1.4 Identification of issues and impact assessment	
<ul style="list-style-type: none"> – Identify the existing knowledge base and also gaps in knowledge – Identify the impact area and potential impacts, both positive and negative – Establish the impact assessment procedure 	<ul style="list-style-type: none"> – Scoping of the environmental assessment, i.e. identify potential significant environmental parameters and human activities, determining the SEA process⁸ <ul style="list-style-type: none"> ○ Identify knowledge and knowledge gaps related to the marine ecosystem, natural values and their relation to human activities based on available sources such as HELCOM assessments ○ Identify actual and potential threats and impacts on the marine ecosystems in the planning area and in the impact area including cumulative effects ○ Identify the most probable future changes in ecosystems and human activities ○ Identify, describe and assess the significant environmental effects of the maritime spatial plan. EU MS base their SEA on DIRECTIVE 2001/42/EC -where according to Article 4 (1) the environmental assessment referred to in Article 3 shall be carried out during the preparation of a plan or programme and before its adoption or submission to the legislative procedure.
1.5 Participation and interaction	

⁸ In Russian Federation the SEA -type of approach is under consideration now. Thus at this stage the actions described in this paragraph in relation to Russian Federation should be interpreted as aiming at the similar objective and purpose as SEA in EU but run according the legal base of the Russian Federation (including also possibility of strengthening the legal bases in Russian Federation in order to take into consideration the need of determining consequences of maritime spatial plans in Russian Federation on the marine environment).

<ul style="list-style-type: none"> – Establish the participation and interaction procedures – Identify authorities, NGOs and other interested parties whom the plan may concern – Discuss with authorities, NGOs and other actors who are interested in being involved – Inform the public of the start of the planning process and of the participation and interaction procedures 	<ul style="list-style-type: none"> – Facilitate the participation of authorities responsible for nature protection and ecosystems, and relevant authorities, NGOs and other stakeholders that should be involved in applying the ecosystem-based approach in the planning process
<p>2. SETTING GOALS</p>	
<p>2.1 Defining goals</p>	
<ul style="list-style-type: none"> – Take into account existing legislation, general and sectoral strategies, programmes and plans – Identify sectoral goals for the planned area (in addition to the overall goals) at different geographical levels: EU, Baltic Sea, national, regional and local – Identify and decide on short- and long-term goals 	<ul style="list-style-type: none"> – Take into account relevant legislation and strategies concerning ecosystems, environmental and environmentally relevant programs, plans and agreements as well as CBD, EU, HELCOM and national targets <ul style="list-style-type: none"> ○ For the identification of environmental goals, follow the definition of good environmental status under the MSFD (2008/56/EC) and BSAP (2007) and good ecological status under the WFD (2000/60/EC). This ensures that implementation of the maritime spatial plan will be compatible with the achievement of good environmental status under these directives and under the BSAP. ○ Identify and take into consideration short- and long-term strategic goals and ecological objectives (according to the BSAP), particularly for areas worth protecting with regard to the capability and capacity of their ecosystems to recover from human-induced changes and deviations from Good Environmental Status
<p>2.2 Content of the plan</p>	
<ul style="list-style-type: none"> – Clarify the feasibility of the preliminary planning options; clarify how to integrate various goals – Prepare future scenarios for the planning process 	<ul style="list-style-type: none"> – Clarify the feasibility of preliminary planning options for nature protection and an ecosystem-based approach to ensure that consideration of ecosystem-based goals is taken in all preliminary planning options
<p>2.3 Identification of issues, investigations and impact assessment</p>	

<ul style="list-style-type: none"> – Consider interactions between interests – Identify existing problems – Identify existing and potential threats – Add to the existing knowledge and update databases – Take into account the precautionary principle 	<ul style="list-style-type: none"> – Identify and define existing problems in the marine ecosystems, threats to the ecosystems and potential uses of ecosystems and their services – Ensure the identification and valuation of ecosystem services – Update the existing knowledge of the marine ecosystems and natural values and related databases
<p>2.4 Participation and interaction</p>	
<ul style="list-style-type: none"> – Clarify the goals of other authorities and NGOs 	<ul style="list-style-type: none"> – Communicate and promote goals concerning the marine ecosystem: biodiversity, natural values and the sustainable use and preservation of ecosystem goods and services
<p>3. PREPARATION</p>	
<p>3.1 Revision of the goals</p>	
<ul style="list-style-type: none"> – 	<ul style="list-style-type: none"> – Revise the goals of the plan with regard to the assessed impacts on marine ecosystems and the sustainable use of the ecosystem services
<p>3.2 Content of the plan</p>	
<ul style="list-style-type: none"> – Draw up planning options in line with previously considered scenarios and the precautionary principle – Outline the plan (regulations, spatial designation of uses) 	<ul style="list-style-type: none"> – Prepare the plan while taking the functioning and identified limited carrying capacity of the marine ecosystems into account (according to the HELCOM–OSPAR 2003 Statement on the Ecosystem Approach)
<p>3.3 Evaluation and impact assessment</p>	
<ul style="list-style-type: none"> – More precise investigations of planning options if needed – Identify and assess the impacts of the planning options and compare the planning alternatives 	<ul style="list-style-type: none"> – More precise investigations and assessments of marine ecosystems, including planned/proposed uses and activities as well as relations to terrestrial ecosystems, when needed
<p>3.4 Participation and interaction</p>	
<ul style="list-style-type: none"> – Cooperation with authorities and stakeholders 	<ul style="list-style-type: none"> – Authorities responsible for ecosystems and nature protection as well as other authorities responsible for applying the ecosystem based approach in the planning process, as well as stakeholders take part

<ul style="list-style-type: none"> – Present planning options and their impacts and submission of opinions 	<ul style="list-style-type: none"> –
<p>4. PROPOSAL</p>	
<p>4.1 Revision of the goals and/or the planning options</p>	
<p>4.2 Content of the plan</p>	
<ul style="list-style-type: none"> – Prepare the planning proposal, which is selected as a result of the evaluation process of the planning options – Assess the feasibility of the plan and take the precautionary principle into account 	<ul style="list-style-type: none"> – Consider the potential impacts of all proposals on ecosystem goods and services
<p>4.3 Investigations and impact assessment</p>	
<ul style="list-style-type: none"> – Assess the impacts of the planning proposal – Assess how the goals are likely to be achieved – Resolve how to reduce the negative impacts – Elaborate a monitoring programme according to the expected impacts and the planning procedure – Negotiate content proposals with sectoral interests / actors if necessary 	<ul style="list-style-type: none"> – Assess how the ecosystem preservation goals set in the plan will be achieved in relation to the planned development activities – Look for solutions to avoid, mitigate or compensate negative impacts on the marine ecosystems and ensure sustainability in uses of natural resources, respecting the capacity of ecosystems to respond to human-induced changes in the achievement of the strategic goals and environmental objectives (according to the BSAP); – Set up a system for monitoring the interactions between human activities and marine ecosystems, including impacts on the marine ecosystems in order to ensure an adaptive management approach (under consideration of the existing HELCOM monitoring) – Prepare the Environmental Report, according to Article 5 of the SEA Directive, when applicable, including in particular the following aspects: <ul style="list-style-type: none"> – Potential impacts of the plan, including cumulative impacts under consideration of the precautionary approach – Options and alternatives (including clarification of their compatibility with the ecosystem-based approach) – Achievement of strategic goals and environmental objectives – Mitigation measures

–	<ul style="list-style-type: none"> – Monitoring – Information on gaps in data and proposal for closing knowledge gaps – Draft Environmental Report – Draft of the assessments regarding Natura 2000 sites
4.4 Participation and interaction	
<ul style="list-style-type: none"> – Present the submitted opinions on the planning options – Public display of the planning proposal – Discussion with authorities 	<ul style="list-style-type: none"> – Authorities responsible for ecosystems and nature protection take part in the formal consultation process
5. APPROVAL	
5.1 Decision on how to take into account the statements received and the results of the discussions and approval of the plan	
–	<ul style="list-style-type: none"> – Public acknowledgement of statements received and dissemination of that information.
5.2 Content of the plan	
<ul style="list-style-type: none"> – Plan is finalised 	–
<ul style="list-style-type: none"> – Evaluation of the plan and the planning process and impact assessment is finalised 	–
5.3 Participation and interaction	
<ul style="list-style-type: none"> – Opinions and statements are integrated into the proposal – Discussions with other authorities – Inform the public of the plan approval 	<ul style="list-style-type: none"> – Authorities responsible for ecosystems and nature protection and other authorities responsible for applying the ecosystem-based approach in the planning process as well as stakeholders take part. – In accordance with Article 9 of the SEA Directive, when applicable, make available: <ul style="list-style-type: none"> ○ the plan or programme as adopted ○ a statement on how environmental considerations have been integrated into the plan and the reasons for choosing the plan in the light of the other reasonable alternatives
–	<ul style="list-style-type: none"> – the measures decided concerning monitoring

6. MONITORING	
6.1 Achievement of the goals	
6.2 Content of the plan	
<ul style="list-style-type: none"> – Evaluate the time period of the plan – Plan is taken into account in other plans and projects 	–
6.3 Evaluation and impact assessment	
<ul style="list-style-type: none"> – Implement and apply the plan; monitor the impacts 	<ul style="list-style-type: none"> – Monitor and audit the impacts on the marine ecosystems according to the monitoring programme, in order to ensure an adaptive management – Evaluate the appropriate balance between conservation and use of biodiversity
7. REVISION OF THE PLAN	
<ul style="list-style-type: none"> – Plans shall be reviewed on a regular basis in order to implement adaptive management. 	<ul style="list-style-type: none"> – Revise the plan as required by the directive in case of negative impacts on ecosystems, particularly their – structure, processes, functions, interactions – interconnectivity – productivity, biodiversity – health, integrity

Annex 3 List of nominated experts for the joint HELCOM-VASAB Maritime Spatial Planning Working Group

Contact addresses of HELCOM-VASAB MSP WG in the Contracting Parties/Member Countries

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