



Baltic Marine Environment Protection Commission

HELCOM expert network on economic and social analyses
meeting

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Instructions and working draft of the HELCOM survey of knowledge and research needs

This document contains a [link to the working draft of the HELCOM survey of knowledge and research needs](#) and instructions for completing the survey are included below.

Background

HELCOM 40-2019 agreed to develop a HELCOM science agenda, concomitantly with the update of the BSAP. The agenda is to outline existing and foreseen HELCOM regional science needs. It will serve the development of activities in HELCOM as well as to inform external funding mechanisms on the research needs of HELCOM. The development of the agenda will also be an opportunity to provide regional input to the [BANOS CSA process](#) and can also contribute to support processes under the [UNESCO Decade of Ocean Science](#). In order to account for the broad range of topics covered by HELCOM work, the dynamic nature of policy and management needs, emerging issues, and the scientific progress, the agenda is envisioned to be regularly updated.

In 2016, [a survey of knowledge and science needs](#) to reach good environmental status was carried out by the State and Conservation Working Group and associated Expert groups and networks as an activity of the HELCOM Roadmap on activities on Ecosystem approach. To initiate the development of an HELCOM science agenda, the survey will be updated and circulated to all HELCOM Working Groups and associated Expert groups with the aim to identify knowledge and research needs to implement HELCOM goals and objectives, commitments from the HELCOM Ministerial Declarations and HELCOM strategic areas of work (HELCOM monitoring and assessment strategy, PLC, MSP Roadmap etc). The survey aims to capture shorter-term knowledge needs as well as longer-term research needs. The results will be summarized in a report that will provide an overview of results and that will form the starting point for the development of the HELCOM science agenda. A process for the further development of the science agenda is still to be agreed. [OSPAR recently updated](#) and ICES have finalized their Science Agendas and their experiences could be utilized when further considering how to finalize the HELCOM plan.

This document contains the list of focal areas and guidance on issues to be indicated in the survey. A set of predefined focal areas and aspects are included to facilitate the sorting of responses. If an area or aspects of interest is not included in the predefined list they can be added as “other”. The associated template to this document (Att. 7.1) should be used when submitting response to the survey.

Submissions by expert groups, networks etc should preferentially be consolidated by the group. If not possible due to lack of a suitable meeting, individual experts are encouraged to submit their proposals via their national contacts in the associated Working Group (Pressures, State&Consevation, Response, Maritime, Agri, HELCOM-VASAB-MSP, GEAR). The input will be discussed at the following meeting of the Working Group with the view of agreeing on a joint input to the survey. Any requests for clarification can be directed to ullali.zweifel@helcom.fi.

3.5 The Meeting agreed to further elaborate the initial proposal of the components of HOLAS III as included in **Annex 3** to this Outcome, and invited countries to provide comments and suggestions to these components to the Secretariat (Jannica.Haldin@helcom.fi) by **12 August 2019**. The Secretariat will collate and, if possible, cluster the received information and link it to the relevant work strand in the preliminary timeline, with the aim of submitting a further developed proposed plan to STATE&CONSERVATION 11-2019 and GEAR 21-2019 meetings, respectively. The Meeting invited the Secretariat and the relevant Expert Groups to prepare more specific information on identified gaps and development needs for the various work strands not covered by the indicator work, as identified in the HOLAS II process or in subsequent work. The Meeting further agreed to continue the discussion on the topic in GEAR 21-2019.

HELCOM has prepared this working draft document in line with request from GEAR 20-2019, which can be used as a starting point for the Network's discussions on the topic.

Action requested

The Meeting is invited to

- take note of the survey and that expert groups are invited to submit proposals by 20 September 2019 (ullali.zweifel@helcom.fi).

Focal areas for the HELCOM survey on knowledge and research needs

HELCOM Working Groups, Expert groups and projects are requested to consider, in their field of expertise, the knowledge and research gaps in related to:

- Activities contributing to pressures on the Baltic Sea
- Pressures on the Baltic Sea, including climate change
- Biodiversity; including both ecosystem components and function
- Ecosystem based management; addressing cross-cutting issues such as tool and models to support ecosystem-based management, maritime spatial planning, social and economic analyses.

An extract of the HELCOM Ministerial Meeting 2018 is provided in table 1 which reflects these focal areas as well as the ambition to implementing the updated BSAP based on a science-based decision making.

Activity and pressure types, biodiversity characteristics

A number of predefined activity and pressures types and biodiversity characteristics are provided as list menu options. "Other" can also be added if something is found missing from the list.

Aspects

For each focal area a number of pre-defined aspects are provided as list options. The aspects differ somewhat between focal areas but cover in general the following:

- monitoring/mapping; e.g. development of new programmes, implementation of new techniques
- state indicators and threshold values
- pressure indicators and pressure targets; i.e. quantitative reduction of pressures to achieve GES
- sources of pressures; e.g. activities, source apportionment
- effectiveness of measures to reduce the pressures, or spatial protection and nature conservation measures
- development of new measures
- social and economic aspects; depending on topic socio-economic aspects could reflect e.g. cost-effectiveness of measures, cost-benefit of reducing pressure on the Baltic Sea and improving its state, aspects of health and human wellbeing, valuation of ecosystem services.

For ecosystem management the following pre-defined aspects are provided:

- tools, e.g. for integrated status assessments, cumulative impact assessments
- models for use in ecosystem management
- activity-pressure-state response relationships, including for aspects of biodiversity
- Maritime Spatial Planning
- social-economic analyses
- impacts of climate change at an ecosystem level.

Title and description

For each proposal a title and description of knowledge/research needs should be provided using free text. Indicative length for the description is 100-150 words. Note that the proposals should address knowledge and research needs to implement HELCOM goals and objectives, HELCOM agreements to improve the Baltic Sea, and strategic areas of work. The proposals should not duplicate ongoing or planned research activities in HELCOM or regional projects, but can expand on them.

Use in HELCOM

Indicate using free text if the knowledge is needed for any specific planned or foreseen activity in HELCOM (e.g. 3rd HELCOM holistic assessment, PLC, implementation of HELCOM agreements, adapting HELCOM policies and recommendations to climate change, red list assessments).

Accessibility

Indicate for each proposal:

- if the required data/information is likely to already exist i.e. knowledge could be acquired through gathering of existing data/information or a review activity, or
- new research activities are likely to be required to meet the knowledge needs

Estimated time

Indicate for each proposal the estimated time to achieve new knowledge for management purposes

- <1 year,
- 1-5 years,
- >5 years,

Scale

Indicate if the proposal is perceived as needed on local, national or regional level (or a combination thereof)

- local
- national
- regional
- local/national
- national/regional
- local/national/regional

Submitted by

Indicate who is submitting the information (e.g. country, network, working group)

NB that if the submission is done by country or expert group, network etc, the input will be addressed and consolidated by the next Working Group meeting.

Table 1. The [HELCOM 2018 Ministerial Declaration](#) outlines a number of priority areas for strengthening the implementation of HELCOM agreements, for uptake of new action in the updated BSAP, and for research to support achievement of HELCOM goals and objectives. An extract of paragraphs related to ecosystem-based management and research needs is provided here, please see full Declaration for complete information.

para15) WE AGREE to **complete and fully operationalise a set of indicators** used for regularly assessing the status of the marine environment including in the next holistic assessment; to **advance mapping and assessment of the extent and intensity of human activities** in the Baltic Sea region and improve the understanding of their impacts, including the cumulative effects on the ecosystem; and to **use this information for strengthening the implementation of ecosystem-based management**;

para 18) WE DECIDE that the updated BSAP should include actions necessary for **managing human activities in such a way that the current HELCOM strategic goals** “Baltic Sea unaffected by eutrophication”, “Baltic Sea with life undisturbed by hazardous substances”, “Maritime activities carried out in an environmentally friendly way” and “Favourable conservation status of the Baltic Sea biodiversity” **can be achieved**, and that its overall objectives support relevant political processes and **strengthen science-based decision-making**.

para 19) WE AGREE that the **updated BSAP should be based on an ecosystem approach**, fully use the precautionary principle, be **supported by fit-for-purpose scientific research**, be strongly communicated with stakeholders, enable **knowledge sharing between science and policy across all levels**, be developed in a participatory and transparent way at regional and local levels, including all appropriate stakeholders, and give due consideration to economic and social impacts of the measures to be taken to meet its objectives;

para 43) WE COMMIT to **increasing the protection and restoration of biodiversity**, to intensifying regional, sub-regional and cross-sectoral cooperation, and to preserving and promoting the ecological balance of the Baltic Sea area with **strengthened resilience**, also as streamlined response to adaptation needs stemming from human-induced climate change;

para 47) WE STRESS the need for **research and adaptive management to strengthen the resilience of the Baltic Sea** in the face of climate change impacts.

para 48) WE EMPHASIZE the need to further **strengthen the scientific understanding of the impacts of climate change together with multiple other stressors** on the Baltic Sea marine environment, and AGREE that HELCOM should take action to bridge this knowledge to policy and practice.

para 49) WE RECOGNIZE that knowledge on the relationship between the state of the marine environment and human well-being is essential for applying the **ecosystem approach to management of human activities** and in **maritime spatial planning** in the region, as well as for implementation of the UN Sustainable Development Goals and the Convention on Biological Diversity;

para 51) WE ALSO AGREE to encourage further **coordinated research to support cost of degradation analyses, cost-effectiveness analyses of regional measures**, and assessment of cost and benefits related to achieving GES covering the entire Baltic Sea region;