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<b>Code</b>	5-4
<b>Category</b>	INF
<b>Agenda Item</b>	5 - Ecosystem-based approach in MSP
<b>Submission date</b>	21.10.2019
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## Background

HELCOM 2018 Brussels Ministerial Meeting highlighted the importance of linking HELCOM's work more strongly to climate change and especially the need to account for climate change in the process of updating the BSAP. HOD 55-2018 considered and approved the draft structure and process of HELCOM climate change work, the draft Terms of Reference for EN CLIME ([outcome HOD 55-2018, Annex 8](#)) and its proposed work plan (Annex 1).

The HELCOM-VASAB MSP WG 18-2019 Meeting invited the HELCOM Secretariat to inform regularly on the progress of the work on the identification of the climate change parameters. The meeting also agreed to exchange national experiences to tackle the climate change related issue in MSP.

The following document is a compilation of extracts of relevant MSP-related information from the [outcome](#) of the Third meeting of the joint HELCOM / Baltic Earth Expert Network on Climate Change (EN CLIME 3-2019) that was held in Stockholm, Sweden on 19 August 2019. The EN CLIME 3-2019 documents mentioned in the following document are publicly available on the [Meeting Site](#).

The work of the EN CLIME is organised around four themes: energy (e.g. temperature, sea ice), water cycles (e.g. salinity, river run-offs), carbon and nutrient cycles, and sea level and wind extremes. The work also implies identification of two sets of parameters: primary - reflecting mainly effects and secondary – impact of climate change. Currently EN CLIME is drafting key messages related to primary parameters, but this work is still in progress.

The Countries are invited to share national experience on accounting of climate change impact in MSPs including ongoing researches or discussions on the matter.

## Action requested

The Meeting is invited to:

- take note of the information related to HELCOM work on climate change and
- to exchange national experiences of accounting climate change parameters in MSP and to agree on the next steps to identify climate change parameters of regional significance for MSP and contribution to the work of EN CLIME.

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## Extracts from the outcome of EN CLIME 3-2019

### Agenda Item 3 Key messages for the primary parameters

#### Agenda Item 3.1 Finalizing key messages: Draft Fact Sheets, Team Energy Cycle

The Meeting took note of the draft key messages prepared by the Energy Cycle Team as presented by the Team Lead. The Meeting reviewed the text under each parameter, discussed and provided input as contained in document 3-1 rev.1.

#### Agenda Item 3.4 Finalizing key messages: Draft Fact Sheets, Team Sea Level and

The Meeting took note of the draft key messages prepared by the Sea Level and Team as presented by the Team Lead. The Meeting reviewed the text under each parameter, discussed and provided input as contained in document 3-4 rev.1

### Agenda Item 4 Work on secondary parameters

#### Agenda Item 4.1 Expertise on secondary parameters

The Meeting took note of the information by the HELCOM Secretariat that, where appropriate, existing HELCOM Expert Groups will be invited to provide input to the work on secondary parameters under EN CLIME.

The Meeting invited the experts of EN CLIME to contact the HELCOM Secretariat ([jannica.haldin@helcom.fi](mailto:jannica.haldin@helcom.fi)) with recommendation for experts to take part in the work on the secondary parameters.

### Agenda Item 5 Any other business

Future peer review.

The Meeting welcomed the information that that the intention is for all key messages to go out for peer review in February 2020, utilizing the Baltic Earth peer review network.

Future actions for the Baltic Sea Action Plan.

The Meeting took note of the information by the HELCOM secretariat on the invitation by HELCOM-40 2019 for HELCOM expert groups, including EN CLIME, to prepare synopses and submit suggestions for proposal of new actions and measures to be included in the update of the Baltic Sea Action Plan.

Possible input to the HELCOM Science Agenda.

The Meeting took note of the information that HELCOM 40-2019 agreed to develop a HELCOM science agenda, concomitantly with the update of the BSAP.

The Meeting took note of that the agenda intends to outline existing and foreseen HELCOM regional science needs and that 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 [UN Decade of Ocean Science for Sustainable Development](#).

The Meeting took note of the information that to initiate the development of an HELCOM science agenda, a survey, which aims to capture shorter-term knowledge needs as well as longer-term research needs, will be circulated to all HELCOM Working Groups and associated Expert groups.

Other meetings and opportunities for cooperation

The Meeting agreed to share any information on external meetings where the work of the group could be presented, as well as share information on any opportunities for cooperation or possibility to support the work with external funding.

#### Next meeting of EN CLIME

The Meeting agree to hold the next physical meeting in late January/early February 2020, preferably back to back with the BalticEarth BEAR workshop and Science Steering Group Meeting, and invited the Secretariat and Co-Chairs to explore the possibility to hold the meeting in Norrköping, at the premise of the Swedish Meteorological Institute.

## Annex 1: Work Plan of EN CLIME

This work plan is valid for a three-year period (beginning January 2019) and is to be reviewed and revised by the network and approved by the HELCOM State and Conservation Working Group and Baltic Earth Science Steering Group. The proposed process has been elaborated in close cooperation with the Baltic Earth Science Steering Group Chair.

Note that the first meeting of the network is preliminarily planned for 29 January 2019 and will be an online meeting.

Action	2018	2019			2020				2021				
	Q 4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q 4
Map identified parameters to expertise under the different organisations. (Baltic Earth/HELCOM Secretariat/HELCOM WGs)													
Engage the experts (Baltic Earth experts and additional experts based on identified needs and gaps) to take part in EN CLIMEs work to provide up-to-date supporting material and key messages addressing the identified parameters													
Nominated experts for the network by 22 January 2019.													
First meeting of EN CLIME (29 January 2019, online)													
Agree on the content and scope of the fact sheet (EN CLIME with HELCOM Secretariat-> S&C).													
Summarize and simplify draft key messages from already existing material and provide confidence assessments of draft key messages (EN CLIME).													
Simultaneously produce supporting material for the key messages, e.g. in the form of publications or thematic assessments. (EN CLIME)													
Peer review the collated key messages (using existing peer review structure within Baltic Earth, expanded to cover additional parameters as needed)													

Revise the key messages in light of peer review comments. (EN CLIME and HELCOM Secretariat)													
Where needed, revise the draft key messages based on the updated information in the supporting material. (EN CLIME)													
Peer review the draft key messages (using existing peer review structure within Baltic Earth, expanded to cover additional parameters as needed)													
Present draft key messages to State and Conservation for endorsement. (State and Conservation WG)													
Present product to Heads of Delegation for approval													
Publish fact sheet and supporting materials. (HELCOM Secretariat)													
Joint launch event(s). BalticEye Baltic Sea Breakfast													
Contribution by EN CLIME to BSAP update													