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Working Group on the State of the Environment and Nature
Conservation

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Submitted by	Secretariat

Background

The document (Att.1) contains a list of HELCOM indicators, their category, and identified leads and co-leads. In addition to this, the relevant Expert Groups, within which the indicators are located, are also listed including their current members.

Corrections or additions to the compiled lists are welcomed, as needed, via email after the meeting.

Action requested

The Meeting is invited to take note of the information.

Continued development of HELCOM indicators: Lists of Lead/co-Lead countries, appointed experts, and members of relevant HELCOM expert groups, networks and projects.

Updated as of 28.09.2020

This document is updated to include information that is thematically organized to include:

- Information on Lead countries, co-lead countries and appointed national experts to develop HELCOM indicators.
- Contacts lists for HELCOM Expert Groups, projects and networks directly related to indicator work (lists of Experts are taken from the HELCOM Share Point system).
- Open aspects (e.g. possible options to support development or co-lead), or aspects for which clarification would be beneficial are highlighted within the document.
- Indicates persons currently not properly listed in the Expert Groups (and thus may not receive emails and access properly) as their Meeting Portal Registrations appear to need completing or correcting.

Note that aspects of priority and ongoing work, as provided in earlier versions of this document, have been deleted as the information is superseded by the indicator work plans and future work on HELCOM indicators process (see [document 4-20](#) of HOD 57-2019). These indicator work plans can currently be found in [here](#).

Please submit further information, corrections and updates to the Secretariat (owen.rowe@helcom.fi and jannica.haldin@helcom.fi).

Contact Lists of HELCOM Expert Groups/Project relevant for indicator work

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Mammals

Mammals indicators

Core indicators	Lead Country	LC representative	Co-Lead Country	CLC representative
Distribution of Baltic seals			Denmark Sweden	Anders Galatius, Markus Ahola
Population trends and abundance of seals	Sweden	Markus Ahola	Denmark	Anders Galatius,
Nutritional status of marine mammals	Sweden	Sara Persson	Finland Germany Denmark	Kaarina Kauhala Ursula Siebert Anders Galatius
Reproductive status of marine mammals	Sweden	Sara Persson	Finland Germany	Kaarina Kauhala Ursula Siebert

Candidate indicator	Lead Country	LC representative	Co-Lead Country	CLC representative
Harbour porpoise distribution			Germany Sweden	Anita Gilles Julia Carlström
Harbour porpoise abundance			Germany Sweden	Anita Gilles Julia Carlström
Seal pup weight at weaning				
'Marine mammal health indicators'				

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Birds

Bird indicators

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Abundance of waterbirds in the breeding season	Germany	Volker Dierschke	Finland	
Abundance of waterbirds in the wintering season	Germany	Volker Dierschke	Finland Sweden	Markku Mikkola-Roos Fredrik Haas

Candidate indicator	Lead Country	LC representative	Co-Lead Country	CLC representative
Distribution of seabirds			Development under JWGBIRD (HELCOM Chair Volker Dierschke)	
Breeding success in guillemots of Gotland			Development under JWGBIRD (HELCOM Chair Volker Dierschke)	
Breeding success or productivity of waterbirds			Development under JWGBIRD (HELCOM Chair Volker Dierschke)	

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Coastal Fish

Coastal fish indicators

Core indicators	Lead Country	LC representative	Co-Lead Country	CLC representative
Abundance of coastal fish key functional groups	Sweden	Jens Olsson	Finland	Antti Lappalainen
Abundance of key coastal fish species	Sweden	Jens Olsson	Finland	Antti Lappalainen

Candidate indicator	Lead Country	LC representative	Co-Lead Country	CLC representative
Size structure of coastal fish	Sweden	Jens Olsson		

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Pelagic habitats – zooplankton

Zooplankton indicators

Core indicators	Lead Country	LC representative	Co-Lead Country	CLC representative
Zooplankton mean size and total stock	Sweden	Elena Gorokhova	Finland Latvia Estonia	Maiju Lehtiniemi Solvita Strake Arno Põllumäe

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Pelagic habitats – phytoplankton

Phytoplankton indicators

Core indicators	Lead Country	LC representative	Co-Lead Country	CLC representative
Seasonal succession of dominating phytoplankton groups	Estonia	Andres Jaanus	Finland Latvia Sweden	Harri Kuosa Sirpa Lehtinen Iveta Jurgensone Marie Johanssen

Pre-core indicators	Lead Country	LC representative	Co-Lead Country	CLC representative
Diatoms/ dinoflagellates index	Germany	Anke Kremp	Estonia Finland Latvia Poland Sweden	Andres Jaanus Harri Kuosa Sirpa Lehtinen Iveta Jurgensone Janina Kownacka Marie Johanssen

Candidate indicators	Lead Country	LC representative	Co-Lead Country	CLC representative
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"Phytoplankton community composition as a food web indicator".	Finland	Sirpa Lehtinen Harri Kuosa	Lithuania Sweden Latvia Estonia Poland	Irina Olenina Marie Johansen Iveta Jurgensone Andres Jaanus Janina Kownacka
Phytoplankton species assemblage clusters based on environmental factors			Finland Latvia Sweden	Harri Kuosa Sirpa Lehtinen Iveta Jurgensone Marie Johanssen Andres Jaanus
Phytoplankton taxonomic diversity				

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Benthic habitats

Indicators of benthic communities and habitats

Core indicators	Lead Country	LC representative	Co-Lead Country	CLC representative
Population structure of long-lived macrozoobenthic species			Finland Germany	Samuli Korpinen Henrik Nygård Alexander Darr Michael Zettler
State of the soft-bottom macrofauna community			Finland Sweden	Henrik Nygård Mats Blomqvist

Pre-core indicators	Lead Country	LC representative	Co-Lead Country	CLC representative
Cumulative impact on benthic biotopes	Germany	Torsten Berg, Birgit Heyden	Sweden	Antonia Nyström-Sandman
Condition of benthic habitats	Estonia	Georg Martin, Kristjan Herkul	Finland Germany Latvia Lithuania Sweden	Samuli Korpinen Alexander Darr Juris Aigars Darius Daunys Antonia Nyström Sandman Mats Blomqvist Anna Westling
Lower depth limit distribution of the macrophyte community			Estonia Finland Germany Latvia (Sweden)	Kaire Torn, Georg Martin Samuli Korpinen Kolja Beisiegel Juris Aigars (Mats Blomqvist)
Population structure of long-lived macrozoobenthic species			Finland Germany Sweden	

Candidate indicators	Lead Country	LC representative	Co-Lead Country	CLC representative
Biomass ratio of opportunistic and perennial macroalgae	Estonia	Georg Martin	Sweden	

State of hard-bottom communities				
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Eutrophication

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DIP	Germany	Dr. Wera Leujak, Federal Environment Agency (Wera.leujak@uba.de) Joachim Kuss (joachim.kuss@io-warnemuende.de)		
Oxygen debt	Lead needed			
Water transparency	Finland			
Chlorophyll a	Finland			
Total nitrogen concentrations	Germany	Dr. Wera Leujak,		

		Federal Environment Agency (Wera.leujak@uba.de) Joachim Kuss (joachim.kuss@io-warnemuende.de)		
Total phosphorus concentrations	Germany	Dr. Wera Leujak, Federal Environment Agency (Wera.leujak@uba.de) Joachim Kuss (joachim.kuss@io-warnemuende.de)		

Pre-core indicators	Lead Country	LC representative	Co-Lead Country	CLC representative
Cyanobacterial bloom index	Finland			
Shallow-water bottom oxygen				
Phytoplankton spring bloom intensity based on chl-a	Finland			

Candidate indicators	Lead Country	LC representative	Co-Lead Country	CLC representative
Deep-water oxygen consumption'				
Baltic Sea acidification			Sweden Germany	TBC

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Input of nutrients

The indicator on progress towards fulfilling Maximum Allowable Inputs for nitrogen and phosphorus is available [at the HELCOM web-site](#) and a proposal for operationalization of the indicator is contained in document 3.3 to HOD 48-2015.

Core indicators	Experts
Inputs of nitrogen and phosphorous to the sub-basins	RedCore DG (Lars Svendsen, DCE Denmark, Bo Gustafsson, BNI Sweden, and the Secretariat) Ricardas Paskauskas (LT)

Hazardous substances

Hazardous substances indicators

Core indicators	Lead Country	LC representative	Co-Lead Country	CLC representatives
Hexabromocyclododecane (HBCDD)	Sweden	Sara Danielsson Elisabeth Nyberg	Finland	Jaakko Mannio
Metals	Poland	Tamara Zalewska	Denmark Finland Sweden	Martin M Larsen Harri Kankaanpää Sara Danielsson
Polybrominated biphenyl ethers (PBDE)			Finland Sweden	Jaakko Mannio Sara Danielsson
Perfluorooctane sulphonate (PFOS)	Sweden	Sara Danielsson Elisabeth Nyberg	Finland	Jaakko Mannio
Polyaromatic hydrocarbons (PAH) and their metabolites	Denmark Germany (PAH metabolites)	Martin M Larsen Ulrike Kammann (PAH metabolites)	Finland Sweden	Harri Kankaanpää Sara Danielsson
Polychlorinated biphenyls (PCB) and dioxins and furans	Germany	Detlef Schulz-Bull Berit Brockmeyer	Finland Sweden	Jaakko Mannio Sara Danielsson
TBT and imposex	Sweden Denmark	Marina Magnusson Martin M Larsen	Finland	Jaakko Mannio
White-tailed sea eagle productivity	Sweden	Peter Hellström	Finland Germany	Toni Laaksonen Christof Herrmann

Supplementary indicators	Lead Country	LC representative	Co-Lead Country	CLC representative
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Reproductive disorders: Malformed amphipod embryos (supplementary, only FI&SE)			Sweden	Elena Gorokhova
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Pre- core indicators	Lead Country	LC representative	Co-Lead Country	CLC representative
Acetylcholines terase inhibition				
Diclofenac concentration	Lead needed			
Estrogenic-like chemicals and effects			Finland	Kari Lehtonen
Lysosomal membrane stability (LMS)			Finland	Kari Lehtonen
Fish Disease Index (no work done in CORESET II)			Finland	Kari Lehtonen
Micronucleus test (no work done in CORESET II)			Finland	Kari Lehtonen

Candidate indicators	Lead Country	LC representative	Co-Lead Country	CLC representative
EROD activity				

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Radioactive substances

Radioactive substances indicators

Core indicators	Lead Country	LC representative	Co-Lead Country	CLC representative
Radioactive substances: Cesium-137 in fish and surface waters	Poland	Tamara Zalewska	Finland	Meerit Kämäräinen

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Oil pollution

Oil pollution indicator

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Oil-spills affecting the marine environment	IWGAS			

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Marine litter

Marine Litter indicators

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Beach litter	Poland	Tamara Zalewska	Denmark Sweden	Jakob Strand Eva Blidberg
Litter on the seafloor	Denmark	Anna Rindorf Marie Storr-Paulsen		

Candidate indicators	Lead Country	LC representative	Co-Lead Country	CLC representative
Micro litter in the water column	Finland	Outi Setälä	Denmark Germany	Jakob Strand Elke Fischer

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Underwater noise

Underwater noise indicators

Pre-core indicators	Lead Country	LC representative	Co-Lead Country	CLC representative
Continuous low frequency anthropogenic sound	Poland	Zygmunt Klusek	Denmark Finland Germany Sweden	Jakob Tougaard Jukka Pajala Jens Fisher Mathias Andersson, Emilia Lalander

Distribution in time and space of loud low- and mid-frequency impulsive sounds	Germany	Carina Juretzek	Denmark Finland Sweden	Jakob Tougaard Jukka Pajala Mathias Andersson, Emilia Lalander
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Additional indicators

i.e. indicators that are not linked to previously listed experts groups/networks/projects.

Core indicators	Lead Country	LC representative	Co-Lead Country	CLC representative	Working arrangements
Abundance of salmon spawners and smolt	Finland	Tapani Pakarinen, Atso Romakkaniemi			Updated in cooperation with ICES WGBAST
	Finland	Tapani Pakarinen			

Abundance of sea trout spawners and parr					Updated in cooperation with ICES WGBAST
Number of drowned mammals and waterbirds in fishing gear	Germany	Sven Koschinski (sk@meereszoologie.de) Volker Dierschke	Poland	Katarzyna Kaminska	Active work being carried out to define and discuss data requirements.
Proportion of large fish in the community	Sweden	Norbert Häubner	Germany Finland	Christian Pusch Thurid Otto Antti Lappalainen	
Trends in arrival of new non-indigenous species	Finland	Maiju Lehtiniemi	Germany Latvia Sweden Denmark	David Johannes Christian Buschbaum Manuela Krakau (Federal Environment Agency) Kai Hoppe (kai.hoppe@kueste-nbiologie.de) Solvita Strake Rahmat Naddafi Ann-Britt Florin Ulrik Berggreen (ucb@mst.dk) Peter Stæhr (pst@bios.au.dk) Kim Larsen (kilar@mst.dk)	TG ballast indicated that the indicator is not a good fit with the group. Possible cooperation with OSPAR in the future. Cooperation amongst the team of experts identified as leads and co-leads.

Candidate indicators	Lead Country	LC representative	Co-Lead Country	CLC representative	Working arrangements
Maximum length fish in the pelagic community	Sweden	Norbert Häubner			