



Baltic Marine Environment Protection Commission

Working Group on the State of the Environment and Nature
Conservation

STATE & CONSERVATION
10-2019

Hamina, Finland, 6-10 May 2019

Document title	Overview of available information and preliminary linking of HELCOM Redlisted species to habitats.
Code	3N-8
Category	CMNT
Agenda Item	3N – Development and implementation of Recommendations
Submission date	15.4.2019
Submitted by	Secretariat
Reference	Outcome of STATE&CONSERVATIO 9-2018 (8J.3)

Background

The HELCOM Ministerial Declaration 2013, as well as HELCOM Recommendation 35/1, states that Contracting Parties should work to: “Ensure that HELCOM MPAs inter alia provide specific protection to those species, habitats, biotopes and biotope complexes included in the HELCOM Red Lists, as agreed in the HELCOM 2013 Copenhagen Ministerial Declaration, by considering these in the site selection procedure.

STATE&CONSERVATION 9-2018 agreed to provide information and an overview of which redlisted species could be reliably linked to which habitat features in the State and Conservation 2019-2020 Workplan (**document 10J-3 to that meeting**), and listed TG MPA as the Expert Group to take this forward.

TG MPA 8-2019 noted that linking the species to habitats would be a useful approach and agreed that the process could be started from the habitats, listing the biotopes from the Habitats Directive, redlisted biotopes and broad scale habitats from MSFD. The Meeting further noted that spatial distribution of the habitats will be considered at a later phase of the process. The meeting agreed that as the following step the Secretariat will prepare an initial list of habitats by 20 February, allowing 3 weeks for national consideration before the next TG MPA meeting 12 March, and that experts from Contracting Parties will be involved in linking the species to the habitat types. The Meeting agreed that Endangered, Threatened, Vulnerable, Near Threatened and, as far as possible, Data Deficient species from the HELCOM Red List of Baltic Sea species should be included in the process. Fish spawning habitats, habitats hosting important food sources as well as habitat forming benthic species should be considered. It was agreed that due to lack of appropriate expertise and information pelagic habitats will not be considered at this stage.

The Secretariat prepared an initial list of habitats and biotopes, as well as of habitat complexes from the HELCOM Red List (and crosschecked these with the relevant habitats from the Habitats Directive, only one HBD habitat identified for the Baltic was not on the list and has been added), and a list of the broad habitats types from the MSFD. The overview of which HBD habitats are relevant for the Baltic Sea and translation matrices for how to link the different habitat types under different policies as developed under the SPICE project (e.g. how to link MSFD broad habitat types with HBD habitats and HUB to MSFD broad habitat types) were also included. In addition to this a list of the RE, CR, EN, VU, NT and DD species from the HELCOM Red List was included, to delineate which species should be in focus.

A first attempt to link the red listed species to the red listed habitats was included to be used as a starting point (sheet 1 in Attachment 1 to this document). The Secretariat was informed by Jens Olsson (Chair of HELCOM FISH PRO) that SwAM in Sweden tasked SLU with a similar task a few years ago, but unfortunately no further information on this could be found.

TG MPA 10-2019 took note of the background document on linking the species to habitats, provided by the Secretariat. The Meeting noted that the tables include all needed information. The Meeting agreed that

information on EU habitat directive (HBD) and EU bird directive should be included to the information of all HELCOM redlisted species, thus combining the two last sheets of the excel document. The meeting further agreed that any possible species on HELCOM Red List that do not fall into any redlisted biotopes should be identified.

TG MPA agreed that the edited excel document will be presented to the STATE & CONSERVATION 10-2019 meeting with a concluding summary, to be prepared by the Secretary, including e.g. information on the redlisted species that are not included in any redlisted biotope.

The attached file (Att. 1) contains all the above mentioned information and this document contains a brief summary of considerations and red listed and data deficient species currently not linked to any habitat.

Action requested

The Meeting is invited to:

- take note of the information, review and provide input or comments to the suggested linkages.
- agree on a process to verify the suggested links using scientific information (in accordance with the State and Conservation Workplan) and to consider additional links which may need to be included.

Summary of preliminary linking of species to habitats

An overview of the proposed linkages can be found in Attachement 1.

As requested by TG MPA the following lists (tables 1 and 2) illustrates the HELCOM redlisted species which are currently not linked to any habitat in the preliminary list (see Att 1).

When reviewing the preliminary list in Attachement 1 and the tables below some considerations should be kept in mind:

1. Some species distribution is not delineated by a given habitat in the way habitats are currently classified.
2. Some species are dependent on other species for survival, which in turn are dependent on a, or a few, given habitat types. This form of relationships are not properly accounted for.
3. The habitats currently used in the list in Att.1 are predominantly benthic, making linking pelagic species to habitats less likely.
4. For some species, especially for the data deficient species, we might not have enough knowledge to link them to habitats.
5. Different dependencies during different life history stages have not been accounted for.

Table 1. Species on the HELCOM Red List which are currently not linked to any habitat

<i>Species and taxonomic group</i>	English name	Past and current threats	Future threats	HELCOM list 2007b	Red List criteria	Red List category	EU Habitat directive	EU Bird Directive
Vascular plants								
<i>Alisma wahlenbergii</i>		Ogr, E, Co	Ogr, E, Co, Cc	x	B2ab(ii,iii,iv,v)	VU	X (Annex II, IV) priority species	
<i>Crassula aquatica</i>		Ogr, E, Co, To	Ogr, E, Co, To		B2ab(ii,iii,iv,v)c(iv)	NT		
<i>Hippuris tetraphylla</i>		Ogr, E, Co, CPr	Ogr, E, Co, CPr, Cc	x	B2ab(i,ii,iii,iv,v)	EN	X (Annex II, IV)	
<i>Persicaria foliosa</i>		Ogr, E, Co	Ogr, E, Co		B2ab(ii,iii,iv,v)	EN	X (Annex II, IV)	
Sponges (Porifera)								
<i>Cliona celata</i>		E, F	E, F, Co		D2	VU		
Sea anemones – Anthozoa (Cnidaria)								
Snails – Gastropoda (Mollusca)								
<i>Alderia modesta</i>		Co	Co		B2a	NT		

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<i>Species and taxonomic group</i>	English name	Past and current threats	Future threats	HELCOM list 2007b	Red List criteria	Red List category	EU Habitat directive	EU Bird Directive
<i>Amauropsis islandica</i>		F, E	F, E, Cc		B2ab(ii,iii,iv)	NT		
<i>Boreotrophon truncatus</i>		F, E	F, E		B2ab(ii,iii)	NT		
<i>Clelandella miliaris</i>		E	E		B1ab(i,iii)	VU		
<i>Epitonium clathrus</i>		E	F		B1ab(iii)	VU		
<i>Lunatia pallida</i>		E, F	E, F		B1ab(iii)	VU		
Bivalves – Bivalvia (Mollusca)								
<i>Nucula nucleus</i>		U	U		A2c	VU		
<i>Parvicardium hauniense</i>		E, Co	E, Co	x	B2ab(ii,iii)	VU		
<i>Scrobicularia plana</i>		U	U		A2c	VU		
Amphipoda								
<i>Corophium multisetosum</i>		E, Co	E, Co		B2b	NT		
<i>Deshayesorchestia deshayesii</i>		To, Co	To, Co		B2ab(iii)	VU		
Decapoda								
<i>Atelecyclus rotundatus</i>		E, F	E, F		D2	VU		
<i>Hippolyte varians</i>		E	E		B1ab(iii)	VU		
<i>Inachus dorsettensis</i>		E	E		B1ab(iii)	NT		
Polychaetes (Polychaeta)								
<i>Sabella pavonina</i>		E, F	E, F		B1ab(iii)	NT		
Echinoderms (Echinodermata)								
<i>Hippasteria phrygiana</i>		E, F	E, F, Cc		B1ab(iii)	VU		
<i>Solaster endeca</i>		E, F	E, F, Cc		B1ab(iii)	VU		
Tunicates – Tunicata (Chordata)								
<i>Pelonaia corrugata</i>		E, F	E, F		D2	VU		
Jawless fishes (Cephalaspidomorphi)								
<i>Lampetra fluviatilis</i>	River lamprey	MB, E, F	E, MB, F	EN*	A2bd	NT	X (Annex II, V; except the Finnish and Swedish populations)	
<i>Petromyzon marinus</i>	Sea lamprey	MB, E, F	MB, E, F	EN*	C2a(i)	VU	X (Annex II except the Swedish populations)	

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<i>Species and taxonomic group</i>	English name	Past and current threats	Future threats	HELCOM list 2007b	Red List criteria	Red List category	EU Habitat directive	EU Bird Directive
Sharks and rays (Elasmobranchii)								
<i>Dipturus batis</i>	Common skate	F, Bc	F, Bc	CR*	–	RE		
<i>Galeorhinus galeus</i>	Tope shark	Bc, F	Bc, F	EN	A2bd, D1	VU		
<i>Lamna nasus</i>	Porbeagle	F, Bc	F, Bc	CR*	A2bd	CR		
<i>Raja clavata</i>	Thornback ray	F, Bc	F, Bc	EN	A2bd	VU		
<i>Squalus acanthias</i>	Spurdog, Spiny dogfish	F, OT	F, OT	CR*	A2bd	CR		
Rayfinned fishes (Actinopterygii)								
<i>Acipenser oxyrinchus</i>	American Atlantic sturgeon	F, Bc, MB, E	F, Bc, MB, E	RE*	–	RE		
<i>Anarhichas lupus</i>	Atlantic wolf-fish	F, Bc	F, Bc	EN	A2d	EN		
<i>Anguilla anguilla</i>	European eel	F, A, MB	F, A, MB	CR*	A3bd+4abde	CR		
<i>Aspius aspius</i>	Asp	Co, F	Co, F	VU	A3d	NT	X (Annex II, V; except the Finnish populations)	
<i>Coregonus maraena</i>	Whitefish	Co, E, F, Bc, Cc, A	Co, E, F, Bc, Cc, A	VU*	A2bd	EN		
<i>Cyclopterus lumpus</i>	Lumpsucker	F, Bc	F, Bc	VU	A2b	NT		
<i>Enchelyopus cimbrius</i>	Four-bearded rockling	U	Bc	RA	A2b	NT		
<i>Gadus morhua*</i>	Cod	F, E, Bc	F, E	EN*	A2bc	VU		
<i>Lota lota</i>	Burbot	E, Cc	E, Cc	–	A2b	NT		
<i>Melanogrammus aeglefinus</i>	Haddock	F	F, E	VU	B1a, B2a	NT		
<i>Merlangius merlangus</i>	Whiting	F	F	VU	A2bd	VU		
<i>Merluccius merluccius</i>	European hake	F, RTF	F, RTF	–	B1a, B2a	NT		
<i>Molva molva</i>	Ling	F	F	VU	A2d	EN		
<i>Salmo salar</i>	Salmon	F, MB	F, MB	EN*	A4b	VU	X (Annex II, V; only in fresh water; except the Finnish populations)	
<i>Salmo trutta</i>	Trout	F, MB	F, MB	VU	A4b	VU		

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<i>Species and taxonomic group</i>	English name	Past and current threats	Future threats	HELCOM list 2007b	Red List criteria	Red List category	EU Habitat directive	EU Bird Directive
<i>Scophthalmus maximus</i>	Turbot	F, E	F, E	DD	A2bd	NT		
<i>Thymallus thymallus</i>	Grayling	Cc, Co, CP, E, F	Cc, Co, CP, E, F		A2bcd	CR	X (Annex V)	
<i>Zoarces viviparus</i>	Eelpout, Viviparous blenny	Cc, CP, CPr, Bc	Cc, CP, CPr, Bc, A		A2b	NT		
Breeding birds								
<i>Podiceps auritus</i>	Slavonian grebe	OT, CP, A, CPr, ERT	OT, CP, A, CPr, ERT		A2abce	VU		X (Annex I)
<i>Aythya fuligula</i>	Tufted duck	OT, To, A, CPr, H, Bc, O	OT, To, A, CPr, H, Bc, O		A2ab	NT		
<i>Aythya marila</i>	Greater scaup	Bc, A, CPr, O, ERT, H	Bc, A, CPr, O, ERT, H		A2abce	VU		
<i>Somateria mollissima</i>	Common eider	Ep, A, cc, CPr	Ep, A, Cc, CPr		A2abce	VU		X (Annex II, III)
<i>Melanitta fusca</i>	Velvet scoter	A, CPr, D, OT, E	A, CPr, D, OT, E	x	A2b	VU		X (Annex II)
<i>Charadrius hiaticula hiaticula</i>	Ringed plover	Ogr, To, A, CPr, AM	Ogr, To, A, CPr, AM		A2bc	NT		
<i>Vanellus vanellus</i>	Lapwing	Di, AM, A, CPr, H	Di, AM, A, CPr, H		A2bc	NT		
<i>Calidris temminckii</i>	Temminck's stint	A, CPr, To, OT, U	A, CPr, To, OT, U		A2a-c	NT		
<i>Calidris alpina schinzii</i>	Southern dunlin	Ogr, A, CPr, Di, Cc, ERT	Ogr, A, CPr, Cc, ERT	x	A2ace, C1	EN		
<i>Philomachus pugnax</i>	Ruff	ERT, Ogr, Di, Cc, A, CPr	ERT, Ogr, Cc, A, CPr		A2abcde	VU		
<i>Limosa limosa</i>	Black-tailed godwit	Ogr, Co, CPr, A, ERT	Ogr, CPr, A, ERT		A2ac	NT		
<i>Tringa totanus</i>	Redshank	Ogr, Co, A, CPr, ERT	Ogr, A, CPr, ERT		A2ae	NT		
<i>Xenus cinereus</i>	Terek sandpiper	A, CPr, RTF?, ERT	A, CPr, RTF, ERT		D1	EN		
<i>Actitis hypoleucos</i>	Common sandpiper	Ogr, A, To, ERT	Ogr, A, To, ERT		A2ab	NT		
<i>Larus melanocephalus</i>	Mediterranean gull	RTF?, A, CPr	RTF, A, CPr		D	EN		
<i>Rissa tridactyla</i>	Black-legged kittiwake	F, Cc, Mi, O, L, Bc, RTF	F, Cc, Mi, O, L, Bc, RTF		D1	EN		

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<i>Species and taxonomic group</i>	English name	Past and current threats	Future threats	HELCOM list 2007b	Red List criteria	Red List category	EU Habitat directive	EU Bird Directive
<i>Gelochelidon nilotica</i>	Gull-billed tern	AM, A, CPr	–		–	RE		
<i>Hydroprogne caspia</i>	Caspian tern	ERT, A, CPr	ERT, A, CPr, Cc		C1	VU		
<i>Oenanthe oenanthe</i>	Northern wheatear	AM, ERT	AM, ERT		A2abc	NT		
<i>Aythya marila</i> (Baltic coastal population)	Greater scaup				A2abcd; C1	EN		
<i>Philomachus pugnax</i> (southern Baltic population – south of 60° Lat.)	Ruff				A2abcde; C1	EN		
<i>Calidris temminckii</i> (Bothnian Bay population)	Temminck's stint				A2a,c; C1; D	VU		
Wintering birds								
<i>Podiceps grisegena</i>	Red-necked grebe	Bc, O, Mi, Co, T	Bc, O, Mi, Co, T		A2b, C1	EN		
<i>Podiceps auritus</i>	Slavonian grebe	Bc, O, Mi, Co, T	Bc, O, Mi, Co, T	w	D2	NT		X (Annex I)
<i>Anser fabalis fabalis</i>	Taiga Bean goose	H, D, Ogr, Mi, Co, OT, CP, ERT	H, D, Ogr, Mi, Co, OT, CP, ERT		A2b	EN		X (Annex II)
<i>Branta bernicla hrota</i>	Light-bellied brent goose	ERT, Ogr, Cc, E, OT, D, F	ERT, Ogr, Cc, E, OT, D, F, H		B1ab(iii), D2	NT		X (Annex II)
<i>Somateria mollissima</i>	Common eider	Bc, O, H, ERT, D, Mi, Co, T	Bc, O, H, ERT, D, Mi, Co, T		A2b	EN		X (Annex II, III)
<i>Polysticta stelleri</i>	Steller's eider	A, Bc, O, T	A, Bc, O, T	w	A1a, B2ab(ii,iv,v), C1,2a(ii)	EN		X (Annex I)
<i>Clangula hyemalis</i>	Long-tailed duck	O, Bc, H, Mi, T, Co	O, Bc, H, Mi, T, Co		A2b	EN		X (Annex II)
<i>Melanitta fusca</i>	Velvet scoter	O, Bc, H, Mi, Co, T	O, Bc, H, Mi, Co, T	b	A2b	EN		X (Annex II)
<i>Mergus serrator</i>	Red-breasted merganser	Bc, O, H, Mi, Co, T	Bc, O, H, Mi, Co, T	b	A2b	VU		X (Annex II)
<i>Hydrocoloeus minutus</i>	Little gull	O	O		D2	NT		
<i>Rissa tridactyla</i>	Black-legged kittiwake	F, Cc, Mi, O, L, Bc, RTF	F, Cc, Mi, O, L, Bc, RTF		D2	VU		
<i>Cephus grylle arcticus</i>	Black guillemot	O, Bc, Mi, Co, T	O, Bc, Mi, Co, T	b+w*	D2	VU		
Phocoenidae								

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<i>Species and taxonomic group</i>	English name	Past and current threats	Future threats	HELCOM list 2007b	Red List criteria	Red List category	EU Habitat directive	EU Bird Directive
<i>Phocoena phocoena</i>	Harbour porpoise Western Baltic subpopulation	Bc, CP	Bc, CP	x*	A2a	VU	X (Annex II, IV)	
<i>Phocoena phocoena</i>	Harbour porpoise Baltic Sea subpopulation	Bc, CP	Bc, CP	x*	C1,2(ii)	CR	X (Annex II, IV)	
Phocidae								
<i>Phoca vitulina</i>	Harbour seal Kalmarsund population	H, Bc, CP, Ep, OT	Bc, CP, OT	x*	D1	VU	X (Annex II, V)	
Mustelidae								
<i>Lutra lutra</i>	Eurasian otter	CP, Co, E, Bc, T, OT, H, O	CP, Co, E, Bc, T, OT, H, O		D1	NT	X (Annex II, IV)	

Table 2. Species listed as Data Deficient on the HELCOM Red List which are currently not linked to any habitat.

<i>Species and taxonomic group</i>	English name	Past and current threats	Future threats	HELCOM list 2007b	Red List criteria	Red List category	EU Habitat directive	EU Bird Directive
Green algae (Chlorophyta)								
<i>Rosenvingiella constricta</i>		U	U			DD		
Charophytes (Charophyta)								
Red algae (Rhodophyta)								
<i>Helminthora divaricata</i>		U	U			DD		
Brown algae (Phaeophyceae)								
<i>Botrytella reinboldii</i>		U	U			DD		
<i>Delamarea attenuata</i>		U	U			DD		
<i>Myriocladia lovenii</i>		U	U			DD		
<i>Stypocaulon scoparium</i>		U	U			DD		
Snails – Gastropoda (Mollusca)								
<i>Cryptonatica affinis</i>		U	Cc			DD		
<i>Epitonium clathratulum</i>		U	U			DD		
<i>Epitonium turtonis</i>		E, F	E, F, C			DD		
<i>Myosotella myosotis</i>		Co	Co			DD		
<i>Roxania utriculus</i>		U	Cc			DD		
<i>Skeneopsis planorbis</i>		U	U			DD		
<i>Vitreolina philippi</i>		U	U			DD		
Amphipoda								
<i>Gammarellus angulosus</i>		U	U			DD		
<i>Gammarus inaequicauda</i>		E, Co	E, Co			DD		
<i>Orchestia gammarellus</i>		To	To			DD		
<i>Talitrus saltator</i>		To	To			DD		
Decapoda								
<i>Geryon trispinosus</i>		F	F			DD		
<i>Inachus phalangium</i>		F, E	F, E			DD		
<i>Palaemonetes varians</i>		E	E			DD		

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<i>Species and taxonomic group</i>	English name	Past and current threats	Future threats	HELCOM list 2007b	Red List criteria	Red List category	EU Habitat directive	EU Bird Directive
<i>Upogebia stellata</i>		F	F			DD		
Isopoda								
<i>Eurydice pulchra</i>		E, Cp, Co	E, Cp, Co			DD		
<i>Lekanesphaera rugicauda</i>		Co	Co			DD		
<i>Limnoria lignorum</i>		Co	Co			DD		
<i>Pleurogonium rubicundum</i>		U	U			DD		
Insects – Insecta (Arthropoda)								
<i>Agrypnetes crassicornis</i>		E	E			DD		
<i>Macrolea pubipennis</i>		E, Co	E, Co	x		DD	X (Annex II)	
Echinoderms (Echinodermata)								
<i>Amphipholis squamata</i>		E	E			DD		
<i>Ekmania barthii</i>		F	F, Cc			DD		
Rayfinned fishes (Actinopterygii)								
<i>Lebetus guilleti</i>	Guillet's goby	U	U	–	–	DD		
<i>Lebetus scorpioides</i>	Diminutive goby	U	U	–	–	DD		
<i>Lesueurigobius friesii</i>	Fries's goby	U	U	–	–	DD		
<i>Lycodes gracilis</i>	Checker eelpout	U	U	–	–	DD		
<i>Phrynorhombus norvegicus</i>	Norwegian topknot	U	U	RA	–	DD		
<i>Zeugopterus punctatus</i>	Topknot	U	U		–	DD		