



## Baltic Marine Environment Protection Commission

Making the HELCOM eutrophication assessment  
operational (EUTRO-OPER)  
Videoconference 7 May 2014

EUTRO-OPER 2-2014

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<b>Document title</b>	Defining datasets to be included into data flow at 1 <sup>st</sup> stage (subtasks 1a.i and 2b.i)
<b>Code</b>	3-2
<b>Category</b>	DEC
<b>Agenda Item</b>	3 - Project roadmap and tasks to be finalized during work phase 1
<b>Submission date</b>	2.5.2014
<b>Submitted by</b>	Secretariat, with contributions from ICES and EU-RSC data -project
<b>Reference</b>	HELCOM EUTRO-OPER 1-2014

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### Background

According to the project description and roadmap (document 3-1), EUTRO-OPER shall define the datasets to be included into data flow at 1st stage for the present core eutrophication indicators (subtask 1a.i) and define the roles of institutions in providing data (subtask 2b.i) by 30 August 2014.

### Action required

The Meeting is requested to study the draft list of datasets and suggest the way forward, in order to ensure that all relevant open sea and coastal datasets are defined and included into the data flow.

**Draft list of datasets to be included into the assessment database**

According to the project description and roadmap (document 3-1), EUTRO-OPER shall define the datasets to be included into data flow at 1st stage for the present core eutrophication indicators (subtask 1a.i) and define the roles of institutions in providing data (subtask 2b.i) by 30 August 2014 during work phase 1.

A first draft of the list is provided in Annex 1. The list includes:

- Datasets for open sea core eutrophication indicators (DIN, DIP, OXY, CHL, SEC) which are stored by ICES at the HELCOM COMBINE database.
- Datasets not found in the HELCOM COMBINE database but used in the 2007-2011 eutrophication assessment (BSEP 143). In order to maintain the confidence level achieved in the previous assessment, also these datasets should be included into the assessment data stream.
- Ferrybox flow-through- and EO- datasets, agreed by EUTRO-OPER 1-2014 to be included into the data streams for updating the chlorophyll-*a* –indicator.

EUTRO-OPER 1-2014 agreed to include coastal datasets into the assessment data stream. At present, Contracting Parties have agreed to submit open sea data to ICES, but a large number of coastal data is submitted as well (listed in Annex 2). The coastal datasets to be included into the data stream should be defined as well, and when separate from the existing data streams, be included into the draft list presented in Annex 1.

The Meeting is requested to study the draft list of datasets and suggest the way forward, in order to ensure that all relevant open sea and coastal datasets are defined and included into the data flow.



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**ANNEX 1:** Anticipated datasets to the eutrophication assessment (DRAFT). Cells with missing information are painted yellow. The entire table can be found as separate file ('EUTRO-OPER 3-2\_annex\_Defining datasets.xlsx').

Parameters	Data type	Sub-region: SEA	Coastal sub-region	Used in 2007-2011	Submitted to database	Monitoring programme	Country	Data Holder	Principal Contact
				Yes	ICES	COMBINE	Denmark	National Environmental Research Institute (NERI)	Ole Mancher
DIN, DIP, OXY, CHL, SEC	In situ			Yes	ICES	COMBINE	Estonia	Estonian Marine Institute (EMI/Pärnu Inst.)	Arno Põllumäe
	In situ			Yes	ICES	COMBINE	Finland	Finnish Environment Institute (SYKE)	Sirpa Kleemola / Riikka Hietala
	In situ			Yes	ICES	COMBINE	Germany	Leibniz Institute for Baltic Sea Research (IOW)	Frank Walther
	In situ			Yes	ICES	COMBINE	Germany	Landesamt für Umwelt, Naturschutz und Geologie (LUNG)	Frank Walther
	In situ			Yes	ICES	COMBINE	Germany	Federal Maritime and Hydrographic Agency (BSHG)	Frank Walther
	In situ			Yes	ICES	COMBINE	Latvia	Latvian Institute of Aquatic Ecology (LHEI)	Dagnija Fedorovicha
DIN, DIP, OXY	In situ			Yes	ICES	COMBINE	Lithuania	Environmental Protection Agency (EPA)	Nailia Bairamova
	In situ			Yes	ICES	COMBINE	Poland	Institute of Meteorology and Water Management (IMGW)	Neves Sergio
	In situ			Yes	ICES	COMBINE	Poland	National Marine Research Institute (NMFRI)	Lena Szymanek
	In situ			Yes	ICES	COMBINE	Russian Federation	State Oceanographic Institute (SOI)	Alexander Korshenko
	In situ			Yes	ICES	COMBINE	Sweden	Swedish Meteorological and Hydrological Institute (SMHI)	Lotta Fyrberg
DIN, DIP, OXY	In situ			Yes	BED		Poland	Chief Inspectorate of Environmental Protection (GIOS)	
DIN, DIP, OXY, CHL	In situ			Yes	BED		Denmark	Aarhus University (AU)	
CHL, SEC	In situ			Yes	BED		Germany	Federal State Agency for Agriculture, Environment and Rural Areas of Schleswig-Holstein (LLUR)	
DIN, DIP, OXY	In situ			Yes	BED		Russian Federation	Russian Academy of Sciences	
CHL, SEC	In situ			Yes	BED		Sweden	Stockholm University Marine research Centre (SMF)	
CHL	Flow-through	005, 006, 007, 008, 009, 010, 011, 013	FIN-005, FIN-002, FIN-013, SWE-015, POL-005?, GER-?	No		Algaline	Finland	Finnish Environment Institute (SYKE)	Seppo Kaitala
CHL	Flow-through	011, 013	EST-006, SWE-015	No		Algaline	Estonia	Estonian Marine Institute (EMI/Pärnu Inst.)	Andres Jaanus
CHL	Flow-through	011, 013	EST-006, SWE-015	No		Algaline	Sweden	Swedish Meteorological and Hydrological Institute (SMHI)	Bengt Karlson
CHL	Flow-through	013	FIN-005, EST-006	No		Algaline	Estonia	Marine Systems Institute (MSI)	Urmas Lips
CHL	EO	all	all	No			Finland	Finnish Environment Institute (SYKE)	Jenni Attila



**ANNEX 2:** Coastal HELCOM COMBINE data since 2007 reported to ICES. Coastal area is defined as in HELCOM sub-basin division.

	Year	n (Secchi)	n (O2)	n (PO4)	n (Ptot)	n (NO3)	n (NO2)	n (Ntot)	n (Chla)
<b>Denmark</b>									
	2007	3	255	251	248	249	5	251	258
	2008	6	267	255	263	263	7	264	263
	2009	4	230	169	219	216	6	219	218
	2010	1	167	159	159	159	2	159	152
	2011	0	199	187	187	1	0	187	192
	2012	0	172	163	163	163	0	163	163
	2013								
<b>Estonia</b>									
	2007	2	2	1	2	1	0	2	2
<b>Finland</b>									
	2007	420	416	426	425	426	18	425	371
	2008	371	360	373	372	371	7	371	339
	2009	371	351	362	369	364	9	361	186
	2010	378	315	325	330	324	6	324	187
	2011	310	269	265	270	265	7	265	4
	2012	344	270	275	281	273	6	275	231
	2013		5						
<b>Germany</b>									
	2007	342	349	322	322	322	322	322	332
	2008	321	333	326	335	333	333	337	322
	2009	336	363	356	363	363	363	363	336
	2010	260	291	297	297	302	302	302	184
	2011	8	229	240	240	240	240	240	237
	2012	0	234	236	236	236	236	236	235
	2013	0	0	0	0	0	0	0	0
<b>Latvia</b>									
	2007	34	39	39	39	39	38	39	39
	2008	36	39	37	36	37	37	36	37
	2009	28	36	32	36	35	32	36	36
	2010	16	18	18	18	18	18	18	18
	2011	7	7	7	7	7	7	7	7
	2012	9	9	9	9	9	9	9	9
	2013	0	0	0	0	0	0	0	0
<b>Lithuania</b>									
	2007	2	8	8	8	8	8	8	8
	2008	4	8	8	8	8	8	8	8
	2009	0	4	4	4	4	4	4	4
	2010	0	9	7	7	7	7	7	7
	2011	0	13	13	13	13	13	13	13
	2012	0	10	10	10	10	10	10	10
	2013	0	0	0	0	0	0	0	0
<b>Poland</b>									
	2007	22	34	20	20	20	20	20	20
	2008	22	26	23	21	23	23	21	21
	2009	22	26	21	18	21	21	19	21
	2010	25	30	25	25	20	21	25	25
	2011	22	24	20	19	20	20	19	20
	2012	26	24	24	24	24	24	24	23
	2013	0	0	0	0	0	0	0	0
<b>Russia</b>									
	2007	0	5	5	5	5	5	5	0
	2008	0	5	5	5	5	5	5	0
	2009	0	4	4	4	4	4	4	0
	2010	0	4	6	6	6	6	6	0
	2011	0	4	4	4	4	4	4	0
	2012	0	16	16	16	16	16	16	0
	2013	0	0	0	0	0	0	0	0
<b>Sweden</b>									
	2007	45	134	131	131	131	107	131	88
	2008	44	150	146	146	146	123	146	98
	2009	39	150	147	147	148	125	147	99
	2010	50	118	115	116	115	91	116	90
	2011	41	58	57	58	57	34	58	35
	2012	43	59	59	59	59	36	59	36
	2013	0	0	0	0	0	0	0	0