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<b>Document title</b>	Status on the reporting of data for use in the HOLAS II project
<b>Code</b>	3MA-1
<b>Category</b>	CMNT
<b>Agenda Item</b>	3MA – Environmental monitoring and data
<b>Submission date</b>	17.10.2016
<b>Submitted by</b>	Secretariat

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## Background

The HOLAS II project will develop a first version of the 2<sup>nd</sup> Holistic Assessment of the Baltic Sea Ecosystem by mid-2017 and an updated version by mid-2018. Updated indicator evaluations are therefore needed in early 2017 (data period 2011-2015) as well as in early 2018 (data period 2011-2016) to cater for integrated assessments that will be carried out under the HOLAS II project in spring 2017 and updated in spring 2018. National data for the updated indicator evaluations have been identified as needed by autumn 2016 to support the finalization of first version of the 2<sup>nd</sup> Holistic Assessment.

At STATE & CONSERVATION 4-2016, proposed data arrangements for HOLAS II were presented (document 3MA-4). The Meeting agreed i.a. to fill in the gaps in the COMBINE database as soon as possible, and agreed that countries that have reported data to other databases or that have many years backlogged data will contact the ICES Data Centre and discuss how the collation of data can be arranged (para 3MA.7).

This document contains an overview of the status of data submissions by 14 October 2016 and clarifications on data arrangements that were not yet in place at STATE & CONSERVATION 4-2016.

- Table 1: Summary of status of data reporting for HOLAS II.
- Table 2: Eutrophication related COMBINE data submissions by country and parameter for the period 2011-2015.
- Table 3: Contaminants related COMBINE data submissions by country and data type for the period 2011-2015.
- Table 4: Biodiversity related COMBINE data submissions by country and data type for the period 2011-2015.
- Table 5: Datasets reported on the data call on spatial human activity and pressures for use in HOLAS II.

Regarding submissions of data to COMBINE, note that reporting only indicates that data has been submitted, not if the submission by the Contracting Parties is complete.

Note that for pressure data this document only refers to data that has been requested directly from the Contracting Parties while some pressure data sets for HOLAS II will be gathered from other sources or projects.

## Action requested

The Meeting is invited to:

- take note of the status of data reporting for HOLAS II,
- agree to submit the still missing data without further delay.

**Table 1. Summary of status of data reporting for HOLAS II.**

Data theme	Reported to (host)	Reporting requested by	Current status of data submissions, 14 October 2016
<b>Reporting to the COMBINE database</b>			
Eutrophication (offshore areas)	COMBINE (ICES)	September 2016	Data submitted by DE, DK, EE, FI, LV, LT, PL, RU, SE. Data missing for 2015 from LV and 2013-2015 from RU. <i>See table 2 for details.</i>
Eutrophication, WFD assessment results (coastal areas)	Eutrophication assessment dataset (ICES)	Request to submit possible updates to WFD results used in EUTRO OPER test assessment will be submitted to Contracting Parties with a deadline in end of November.	
Hazardous substances (excl. radioactive substances) in biota	COMBINE (ICES)	September 2016	Data submitted by DE, DK, FI, LT, PL, SE. RU is not monitoring hazardous substances in biota. Data missing for 2013-2015 from FI. No data in COMBINE from EE, LV. <i>See table 3 for details.</i>
Hazardous substances (excl. radioactive substances) in sediment	COMBINE (ICES)	September 2016	Data submitted by DE, DK, LT, PL, SE. Data missing for 2015 from DE and SE. No data in COMBINE from EE, FI, LV, RU. <i>See table 3 for details.</i>
Hazardous substances (excl. radioactive substances) in seawater	COMBINE (ICES)	September 2016	Data submitted by DE, FI, LT. DK, EE, LV and SE do not monitor hazardous substances in seawater. No data in COMBINE from PL, RU. <i>See table 3 for details.</i>
Hazardous substances, WFD assessment results (coastal areas)	HELCOM Secretariat; by use of template	June 2016	WFD second cycle chemical status assessment results submitted by DE, DK, EE, FI, LT, SE. LV informed that no such results are available. FI, PL informed at HOLAS II 6-2016 that the still missing shapefiles will be submitted.
Phytoplankton	COMBINE (ICES)	September 2016	Data submitted by DE, DK, EE, FI, LT, PL, SE. Data missing for 2015 from DK and FI. No data in COMBINE by LV and RU. <i>See table 4 for details.</i>

Data theme	Reported to (host)	Reporting requested by	Current status of data submissions, 14 October 2016
Zooplankton	COMBINE (ICES)	September 2016	Data submitted by DE, DK, EE, LT, PL, SE. Data missing for 2015 from DK and 2011-2012 from DE. No data from FI, LV and RU. <i>See table 4 for details.</i>
Zoobenthos, (indicator 'State of the soft-bottom macrofauna community', offshore areas)	COMBINE (ICES)	September 2016	Data submitted by DE, DK, FI, LT, PL, SE. Data missing for 2011-2013 from DK and 2015 from FI. No data from EE, LV and RU. <i>See table 4 for details.</i>
<b>Reporting to databases hosted by the HELCOM Secretariat</b>			
Birds	HELCOM Secretariat (new database developed as part of BalticBOOST)	Coastal breeding and wintering counts: Data call issued in March 2016 with deadline end of April <sup>1</sup> . Offshore wintering counts: coordinated winter survey data from Jan-Feb 2016 to be collated once processed, discussed at JWG Bird 2016 (10-14 October).	Data on coastal breeding/wintering bird counts was submitted by DK, DE, EE, FI, LT, LV, PL, SE. No data received from RU. Data currently being processed to the new database format. Data on offshore wintering bird counts not yet called for, experts still considering relevant regional data format and centralized processing and analyses.
	HELCOM Secretariat	Important Bird Areas First data call issued 10 June and repeated 26 August 2016 with deadline 23 September.	Data submitted by DE, DK, LT, PL and SE. Reminder sent out 5 October.
Coastal fish	HELCOM Secretariat (new database developed as part of BalticBOOST)	FISH-PRO II agreed to report data by autumn 2016, precise date pending finalization of new database	Data until 2015 received from DE, DK, EE, FI, LV, LT (2011-2012 only), SE. Some data submissions still partly pending. Data is currently being processed to the new database format. PL monitoring started in 2015. RU no monitoring in place.
Seals	HELCOM Secretariat (new database developed as part of BalticBOOST)	SEAL 9-2015 agreed for countries to report before next meeting of the group to held 5-7 October 2016 Updated data request will be submitted by the end of October.	<a href="#">Data on abundance</a> available from all Contracting Parties through SEAL EG 10-2016. Data request to support distribution indicator was sent in September 2016. SEAL 10-2016 agreed to modify the format to enable reporting of aggregated counts.

<sup>1</sup> It should be noted that count data was submitted in various national formats which created considerable manual effort in processing national data to the requested harmonized format.

Data theme	Reported to (host)	Reporting requested by	Current status of data submissions, 14 October 2016
Radioactive substances (concentrations and discharges)	MORS (HELCOM Secretariat)	September 2016	Data for 2015 submitted by DK, DE, EE, LT, PL and SE. Reminders to data providers have been submitted. Data for the years 2013-2015 missing from LV and RU.
Input of nutrients and hazardous substances	PLC (BNI/EMEP)	September 2016	Datasets for input of nutrients will be available late December 2016. Delivery of input of hazardous substances is postponed to spring 2017.
Illegal Oil discharges	HELCOM Secretariat	March 2016	Data for 2015 reported by DE, DK, EE, FI, LT, PL, SE. Dataset verified by IWGAS 2015, ready and <a href="#">published</a> .
Dredged material	HELCOM Secretariat	September 2016	Data for 2015 submitted by EE, DK, FI, LT, PL and SE. Reminders to data providers have been submitted.
<b>Other data sources or ad hoc data calls</b>			
Marine litter	Tbc MARLIN project database / Marine Litter Watch database EEA	15 August 2016	Data on beach litter monitoring submitted for the period 2014 - 2016 by DK, EE, FI, DE, PL and SE. Data missing from LV, LT, RU. Data will be held at the Secretariat as an interim solution.
	DATRAS database on trawl surveys (ICES)	As reported to ICES	DATRAS has data available for: DE, DK (2012-2015), EE, LV (2015); LT, PL (2015-2016) and SE (2012-2016). FI and RU are not covered by DATRAS. Note that it is essential that all countries use the same list of item categories, i.e. the one recommended by ICES WGBIFS 2016. Data extraction from the database is to be improved.
Underwater noise - impulsive	Regional impulsive noise registry (ICES)	April 2016	Reporting status to the registry: DK (no events in the Baltic Sea area), DE (pile driving events occurred in the years 2013 to 2015) and SE (data on sonar events, airguns and underwater explosions for events occurred in 2015).
Spatial human activity and pressures data call	HELCOM Secretariat	April 2016	Data reported by DE, DK, EE, FI, LV, LT, PL, SE, for details see table 5.
Extraction of sand and gravel	HELCOM Secretariat	September 2016	Data reported by DE, EE, LT and SE. Activity reported as not relevant in in LV. Reminder for the remaining countries to be sent out mid-October.

<b>Data theme</b>	<b>Reported to (host)</b>	<b>Reporting requested by</b>	<b>Current status of data submissions, 14 October 2016</b>
Dredging activity	HELCOM Secretariat	September 2016	Data reported by DE, EE and LV. SE informed data submission to take place before January 2017. Reminder for the remaining Countries to be sent out mid-October.
White-tailed eagle productivity	tbc HELCOM bird database/ national database (HELCOM Secretariat)	September-October 2016	Data evaluated from all relevant countries up until 2014. Lead Country SE aiming to request national expert contacts to provide 2015 update before end of 2016.
Non-indigenous species	AquaNIS	Data to be verified by end of 2016 by TG Ballast experts	AquaNIS data reported through ICES WGITMO 2016 to be used covering all coastal states. Note that proposed data preparation for the NIS core indicator is detailed in separate document to STATE & CONSERVATION 5-2106 on the progress of the NIS indicator.
Migratory fish	WGBAST (ICES)	March 2016	Salmon: 2015 data available (DK not represented at WGBAST, no salmon rivers identified as relevant for Baltic Sea) Model processed data available 2011-2014. Aim to update indicator report by end of 2016 with the existing non-modelled 2015 data. Aim to update indicator in spring 2017 using modelled data 2011-2016. Trout: Available for 2010-2014 (some areas 2010-2013), based on expert judgement. Aim to update indicator for in spring 2017 using model and expert judgement
Offshore fish	SE pelagic dataset covering the three relevant assessment units to be used. Long-term goal: Demersal (BITS) - DATRAS (ICES), Pelagic (BIAS) – database currently under construction, data held nationally(ICES)	March 2016	SE pelagic BIAS dataset available that covers the relevant assessment units (Eastern- and Western Gotland Basin, Bornholm Basin) and is standardized using a GAM model. Before use in an indicator the demersal BITS data in DATRAS needs to be standardized. Currently available data in DATRAS: DK, DE, EE, LT, LV, PL, SE: 2011-2015 DK, DE, LV, LT, PL, SE: 2016 Q1 RU: 2011, 2013 Q1

Data theme	Reported to (host)	Reporting requested by	Current status of data submissions, 14 October 2016
Incidental by-catch in fisheries	Indicator Lead Country (HELCOM Secretariat)	Information to be provided if monitoring is initiated, no additional reporting required	Not applicable
Habitat related spatial data	HELCOM Secretariat	March 2016	Submitted data on Natura 2000 habitats: <b>Denmark:</b> Distribution of Natura 2000 habitats within Natura 2000 areas; 1110, 1130, 1140, 1150, 1170, 1180. <b>Estonia:</b> Distribution of 1110, 1130, 1140, 1150, 1160, 1170. <b>Finland:</b> Distribution of 1110, 1130, 1150, 1160, 1170, 1610 (uw parts), 1620 (uw parts). <b>Germany:</b> Distribution of 1110, 1130, 1140, 1150, 1160, 1170 <b>Latvia:</b> Distribution of 1170. <b>Lithuania:</b> Distribution of 1170. <b>Poland:</b> Distribution of 1110, 1130, 1150, 1160, 1170 <b>Russia:</b> HabDir not implemented <b>Sweden:</b> Distribution of 1110, 1130, 1150, 1160, 1170, 1180, 1610 (uw parts), 1620 (uw parts).
Phytobenthos	COMBINE (ICES)	September 2016	Not applicable since no data is expected to be used from COMBINE phytobenthos reporting in HOLAS II. Assessments on phytobenthos will be based on WFD assessment results (see Eutrophication)
<b>Data from other assessments</b>			
Maritime activities related data/assessment	HELCOM Secretariat	No additional reporting needed	Datasets ready for: Shipping density (total ship crossings in 1km x 1km grid) per ship type in 2011-2014, Constructed and operational cables, pipelines and wind farms in 2011-2015, shipping accidents in 2011-2013. Shipping accidents for 2014 is under verification process, data call for 2015 has been submitted with deadline 16 October 2016.
Hazardous submerged objects	HELCOM Secretariat	No additional reporting needed	Dumped chemical munitions: available from HELCOM MUNI report. CHEMSEA project will submit more data on chemical munitions.

Data theme	Reported to (host)	Reporting requested by	Current status of data submissions, 14 October 2016
			<p>Dumped chemical hazardous waste: no spatial data will be available</p> <p>Hazardous wrecks: Data on wrecks may be available (from DE, PL and DE, tentatively EE and FI), with limited information whether hazardous or not.</p>
Underwater noise – continuous noise	BIAS project database	No additional reporting needed	The Life+ BIAS project has recently provided six soundscape maps for frequencies of 63, 125 and 2000 Hz with 50% and 90% of time exceeded noise levels for the year 2014 for the whole Baltic Sea.

**Table 2. Eutrophication related COMBINE data submissions by country and parameter for the period 2011-2015.** The information is extracted from [http://www.ices.dk/marine-data/Documents/Submission\\_Summaries/HELCOM\\_Data\\_summaries.xls](http://www.ices.dk/marine-data/Documents/Submission_Summaries/HELCOM_Data_summaries.xls) 7 October 2016. It should be noted that the table reflects whether data for a given year is submitted overall and does not reflect the completeness of the submission.

Country	DIP	DIN	Chl-a	Secchi	Oxygen
Denmark	2011-2015	2012, 2013, 2015	2011-2015	2015	2011-2015
Estonia	2011-2015	2011-2015	2011-2015	2011-2015	2011-2015
Finland	2011-2015	2011-2015	2011-2015	2011-2015	2011-2015
Germany	2011-2015	2011-2015	2011-2015	2011-2015	2011-2015
Latvia	2011-2014	2011-2014	2011-12	2011-2012	2011-2014
Lithuania	2011-2015	2011-2015	2011-2015		2011-2015
Poland	2011-2015	2011-2015	2011-2015	2011-2015	2011-2015
Russia	2011-2012	2011-12			2011-2012
Sweden	2011-2015	2011-2015	2011-2015	2011-2015	2011-2015

**Table 3. Contaminants related COMBINE data submissions by country and data type for the period 2011-2015.** The information is extracted from <http://data.ices.dk/accessions/AllCommissionSummary.aspx?commission=HELCOM> and [http://www.ices.dk/marine-data/Documents/Submission\\_Summaries/HELCOM\\_Data\\_summaries.xls](http://www.ices.dk/marine-data/Documents/Submission_Summaries/HELCOM_Data_summaries.xls) 7 October 2016. It should be noted that the table reflects whether data for a given year is submitted overall and does not reflect the completeness of the submission.

Country	Contaminants in biota	Contaminants in sediment	Contaminants in seawater
Denmark	2011-2015	2011-2015	No monitoring
Estonia	**	**	No monitoring
Finland	2011-2012	No monitoring	2011-2015
Germany	2011-2015	2011, 2012, 2014	2014-2015
Latvia	2011-2014	**	No monitoring
Lithuania	2011-2015	2011-2015	2011-2015
Poland	2011-2015	2012, 2013, 2015	**
Russia	No monitoring		2011-2012 pending QA
Sweden	2011-2015	2014	No monitoring

\*\* Estonia and Poland informed STATE & CONSERVATION 2-2016 that data is reported to EIONET and Latvia informed STATE & CONSERVATION 4-2016 that data is reported to EMODNET. It should be noted that the BalticBOOST workshop on HOLAS II hazardous substance assessment recommended to State and Conservation 4-2016 to report all monitoring data through COMBINE, as critical differences in the major fields were identified in the EIONET metadata (document 1-9 Rev1.).



**Table 4. Biodiversity related COMBINE data submissions by country and data type for the period 2011-2015.** The information is extracted from

<http://data.ices.dk/accessions/AllCommissionSummary.aspx?commission=HELCOM> and

[http://www.ices.dk/marine-data/Documents/Submission\\_Summaries/HELCOM\\_Data\\_summaries.xls](http://www.ices.dk/marine-data/Documents/Submission_Summaries/HELCOM_Data_summaries.xls) 7

October 2016. It should be noted that the table reflects whether data for a given year is submitted overall and does not reflect the completeness of the submission.

Country	Phytoplankton	Zooplankton	Zoobenthos
Denmark	2011-2014	2011-2014	2014-2015
Estonia	2011-2015	2011-2015	
Finland	2011-2014		2011-2014
Germany	2011-2015	2013-2015	2011-2015
Latvia			
Lithuania	2011-2015	2011-2015	2011-2015
Poland	2011-2015	2011-2015	2011-2015
Russia			
Sweden	2011-2015	2011-2015	2011-2015

Table 5. Datasets reported on the data call on spatial human activity and pressures for use in HOLAS II.

Dataset	Shellfish mariculture	Finfish mariculture	Mussels and scallop dredging	Maerl and Furcellaria harvesting	Game hunting of seabirds	Predator control of seabirds	Land claim	Watercourse modification	Coastal defence	Hydropower dams
Denmark	Reported	Reported	Reported	Not relevant	Reported	Reported	Reported	Unable to deliver data	Reported	Not relevant
Estonia	Not relevant	Not relevant	Not relevant	Reported	Reported	Reported	Not relevant	Reported	Reported	Reported
Finland	Not relevant	Reported	Not relevant	Not relevant	Reported	Reported	Reported	Reported	Reported	Reported
Germany	Reported	Reported	Unable to deliver data	Not relevant	Not relevant	Not relevant	Not relevant	Not relevant	Reported	Not relevant
Latvia	Not relevant	Not relevant	Not relevant	Not relevant	No data available	Not relevant	Not relevant	No data available	No data available	Not relevant
Lithuania	Not relevant	Not relevant	Not relevant	Not relevant	Not relevant	Not relevant	Not relevant	Not relevant	Not relevant	Not relevant
Poland	Not relevant	Not relevant	Not relevant	Not relevant	Not relevant	Not relevant	Reported	Reported	Reported	Not relevant
Russia	No reply	No reply	No reply	No reply	No reply	No reply	No reply	No reply	No reply	No reply
Sweden	Not relevant	Reported	Not relevant	Not relevant	Reported	Reported	Unable to deliver data	Unable to deliver data	Unable to deliver data	Reported