Agenda Item 2 Review of New Information on Threats to

Small Cetaceans

Document NR 8 2018 Annual National Report (DRAFT)

Denmark

Action Requested Take note

Submitted by Denmark



ASCOBANS National Reporting Format

1 January 2016 - 31 December 2018

As outlined in <u>ASCOBANS Resolution 8.1</u> on National Reporting, this format will cover the following Sections of the Annex to the Resolution, in addition to the standard Sections I and VII:

- Disturbance, incl. potential physical impacts (Section II B5, B6, B7)
- Habitat Change and Degradation incl. potential physical impacts (Section II C10, C11, C12, C13, C14)
- Area-based Conservation / Marine Protected Areas (Section II E16, E17)
- Education and outreach (Section VI A)

Exceptionally, the reporting period for questions here is 1 January 2016 – 31 December 2018, unless stated otherwise, to accommodate the requirements of the next Meeting of Parties to ASCOBANS, scheduled for 2020. The reports will inform discussion at the 25th Meeting of the Advisory Committee (AC25), which will be held in September 2019.

Where possible, National Coordinators should consult with, or delegate to, experts for particular topics so as to ease the reporting burden. The Secretariat has provided a list of potential country contacts as a starting point. Once the baseline information is in place, it should become easier to update in the future. Please include relevant web links where requested.

Please note that numbering of the sections refers to numbering as in Resolution 8.1. This means the first section in the current form is number 5 (Cetacean Watching Industry) and not number 1.

High-level Summary of Key Messages

In your country, for the reporting period from 2016 to 2018, what does this report reveal about:

- 1. The most successful aspects of implementation of the Agreement? (list up to five items)
- 2. The greatest challenges in implementing the Agreement? (list up to five items)
- 3. The main priorities for future implementation of the Agreement? (list up to five items)

Section I: General Information

A. Country Information

1. Name of Party / Non-Party Range State:

Denmark

2. Details of the Report Compiler

Name: Signe Sveegaard Function: Senior advisor

Organization: Aarhus University

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Telephone: 28951664 Email: ssv@bios.au.dk

Does the Report Compiler act as ASCOBANS National Coordinator (i.e. focal point)?

No □ Yes

Focal point: Camilla Uldahl, Ministry of Environment and Food of Denmark, Tolderlundsvej 5,

5000 Odense C, cakis@mst.dk

3. Details of contributor(s)

Topic(s) contributed to: Outreach

Name: Maria Palner

Function: scientific assistant **Organization:** Aarhus University

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Telephone:

Email: mariapalner@bios.au.dk

Copy box if needed

Section II: Habitat Conservation and Management (threats and pressures on cetaceans)

B. Disturbance (incl. potential physical impacts)

8. 5. Cetacean Watching Industry

AIM: to determine if the developing cetacean watching industry poses a threat to small cetaceans. *Relevant Resolutions: 8.9, 8.2, 8.1, 6.1, 5.4*

Whale and dolphin watching is a global industry that can provide socio-economic benefits to local communities by attracting tourism, as well as strengthening public awareness of conservation needs. However, it also has the potential of being harmful when it interferes with the behaviour of animals in their natural environment and may even lead to injury or death. As the cetacean watching industry is still scarcely developed in some countries, collecting this data now allows tracking the development of the industry.

It is of particular importance to ASCOBANS to obtain an overview of the current scale of the activities and to monitor the development of the industry in the future. This is done by quantifying the number and locations of operators, reporting negative interactions and providing information on the development and implementation of any guidelines regarding cetacean watching.

Filling out this section accurately and completely will help to detect any indications of potential threats, allow timely mitigation action and enable Parties and Non-Party Range States to work towards a coordinated approach regarding the development of cetacean watching guidelines in the Agreement area.

Note: We are here only addressing commercial cetacean watching activities which take place from vessels and include viewing of small cetacean species. Operators are defined as those offering trips with a <u>primary focus</u>: they advertise specifically with the aim to see small cetaceans, or a <u>secondary focus</u>: they advertise either for other taxa, such as birds or seals, or large cetaceans, or more general for wildlife, but mention the opportunity to see small cetaceans.

Questions:

5.1.	Do you have any commercial small cetacean watching industry operating in your country?
[□ No. Go to Question 5.3.
[Yes. Continue with Question 5.2.

5.2. In the table below, provide the sub-regions, ports and operators from which commercial cetacean watching takes place. Please tick the boxes if small cetacean watching is a primary and/or secondary focus of the operators and, in the first case what the target species are.

Overview of commercial small cetacean watching activities per sub-region.

OSPAR / HELCOM	_	_		small cetacean watc	Link to website or		
Sub-region	Port	Operator	Primary focus / target Secondary species focus			contact details	
H The Sound	Helsingør	Øresund Aquarium — Aquarium that offer porpoise sighting tours sporadically	Ø	HP Harbour porpoise Choose a species Choose a species Choose a species	<i>□</i>	https://www.oresunds akvariet.ku.dk/english /experiences/rib-boat- sea-tour/	
H Belt Sea	Middelfart	Aventura – tour boat	Ø	HP Harbour porpoise Choose a species Choose a species Choose a species		Henrik Traugott-Olsen, Mail: mail@visitmiddelfart.a <u>k</u> , Web: http://www.galeasen-	

OSPAR / HELCOM	Port	Operator		small cetacean watc		Link to website or	
Sub-region	7010	Primary focus / target Secondar species focus			Secondary focus	contact details	
H Belt Sea	Skærbæk Fiskerihavn, Fredericia	http://meer2sea.d k - tour boat	Ø	HP Harbour porpoise Choose a species Choose a species Choose a species		http://meer2sea.dk, Bjarne Knudsen: bjankmail@gmail.com	
H Belt Sea	Kerteminde	Fjord&Belt — Aquarium that offer porpoise sighting tours sporadically	Ø	General marine nature	Ø	Fjord&Bælt, Margrethes Plads 1, Kerteminde, email: post@fjord-baelt.dk	

Regions: This refers to the sub-regions as defined by the HELCOM and OSPAR. An overview of these and a map can be found in ANNEX A. **Target species:** chose from drop-down list provided, based on ASCOBANS list, see ANNEX B.

5.3. Does your country have a definition of the term 'harassment'? 1
⊠ No.
☐ Yes. Provide definition in table below:
5.4. Have there been any incidents of harassment to small cetaceans in the context of commercial cetacean watching reported to authorities?
⊠ No.
☐ Yes. Provide information on table below.
If there were several reported incidents of harassment, copy the table and add another one.
LE LIGAC VALIR CALINTRY HOVA ONLY MITIGOTIAN MAGCLIRAC (CARAC AT CANALICT/GUIDACINAC) IN NIGCA IN THA AVANT
 5.5. Does your country have any mitigation measures (codes of conduct/guidelines) in place in the event of disturbance or harassment in the context of commercial cetacean watching? ☑ No. ☐ Yes. Please add below the type of measures and relevant information:
of disturbance or harassment in the context of commercial cetacean watching? No. ☐ Yes. Please add below the type of measures and relevant information: This may include regional measures.
of disturbance or harassment in the context of commercial cetacean watching? ☑ No. ☐ Yes. Please add below the type of measures and relevant information:
of disturbance or harassment in the context of commercial cetacean watching? No. ☐ Yes. Please add below the type of measures and relevant information: This may include regional measures.
of disturbance or harassment in the context of commercial cetacean watching? No. ☐ Yes. Please add below the type of measures and relevant information: This may include regional measures. 5.6. Does your country have any operators that offer swimming with dolphins (or other small cetaceans)? In some parts of the world this has become an important tourism industry with potential impacts for both cetaceans and swimmers. Although scarcely developed, it has occurred within the ASCOBANS Agreement Area, and requires at

cetaceans reported to authorities – and the outcome if known (behavioural response, injury, death, any court proceedings).

5.7. List any incidents of harassment to cetaceans in your country in the context of swimming with small

If there were several reported harassments, copy the table and add.

¹ For example, the US Marine Mammal Protection Act uses the term harassment, and defines two levels: Level A harassment means any act of pursuit, torment, or annoyance that has the potential to injure a marine mammal or marine mammal stock in the wild. Level B harassment refers to acts that have the potential to disturb (but not injure) a marine mammal or marine mammal stock in the wild by disrupting behavioural patterns, including, but not limited to, migration, breathing, nursing, breeding, feeding, or sheltering. NB. The UK uses the term 'disturbance' in its legislation.

 5.8. Does your country have any mitigation measures (codes of con of disturbance or harassment during swimming with small ceta ⋈ No. ☐ Yes. List below the type of measures and relevant information 	ceans in place?
All tour operators have been contacted and several have a protocomporpoises were close by, but no one have it written down. The tou density as well as high recreational leasure boat traffic. Frequence	rol of turning of the engine once the urs all occur in areas of high porpoise
5.9. Are there any solitary sociable dolphin interactions in your co	untry?
Occasionally, individual solitary dolphins may associate with humans, result two which may lead to impacts upon either. Sometimes incidents occur an swimmers.	_
☒ No. Go to Question 5.12.☐ Yes. Provide information in the table below:	
If several interactions have been reported please copy this table.	
5.10. List any incidents of harassments to small cetaceans in the sociable dolphins reported to authorities – and the outcome if death, any court proceedings).	
If there were several reported incidents, copy the table and add.	
 No. ☐ Yes. List below the type of measures and relevant informat This information will enable comparisons to be made across the Agenthe provision of overall, consistent guidelines. 5.12. List initiatives/projects (including PhD, MSc) in 2016-2018 watching industry, "swim with small cetacean" operations, 	greement area, and ultimately may lead to
and their possible effects on cetaceans (incl. title, organisatio No relevant information for Denmark	n, lead author).
5.13. List publications (reports, theses, papers in journals, books) fr 2018 relating to small cetacean watching industry, swim operations, solitary sociable dolphin interactions and their po Riisager-Pedersen C, Galatius A, Olsen MT. 2017. Mapping Danish marine n præsenteret ved Annual Conference of the European Cetacean Society 2017 Riisager-Pedersen C. 2017. Marine mammal management in light of eco-too Museum of Denmark, University of Copenhagen, Denmark.	with dolphins (or small cetaceans essible effects on cetaceans. nammal ecotourism. Poster session 7, Middelfart, Danmark.
5.14. Please provide web links to other relevant information in industry, swim with dolphins (or small cetaceans) operations, and their possible effects on cetaceans for this section.	
Description	Web link

No relevant information for Denmark

5.15. Has there been any other notable i 2018 in your country?	nstances / issues r	elated to cetacear	n watching indu	stry in 2016-
no				
5.16. Is the perceived level of pressure increasing, decreasing, staying the			watching in y	our country
To be done on a species by species basis where Scientific name of the species	applicable (see Anne	Decreasing	vhere relevant (se	Unknown
Harbour porpoises			same x	
☐ Not applicable. Comments:				
B. Disturbance (incl. potential physical im	nacts)			
	pacisj			
9. 6. Recreational Sea Use				
AIM: to determine whether recreational types of activity and areas of concern.	sea use is detrimer	ntal to small cetace	eans and, if so, t	o identify
Relevant Resolutions: 8.9, 8.2, 8.3, 8.1, 7.	1, 6.1, 5.4			
Recreational use of the sea by humans incl a potential negative impact on small cetac boats exceeding 10 knots in speed, yachts recreational fishing and sea-angling.	eans. This includes	RIBs (rigid-hulled i	nflatable boats)	, hard-hulled
Interactions can cause animals to change be such as injury or even death due to collision the importance to review all available information best practices and guidelines will enable commay lead to the provision of overall, considered. In this section we strive to obtain an data on incidents with small cetaceans related	n. ASCOBANS has appropried in the second in	greed on a numbe tional use of the so ade across the Agr at might be develo ntial risk areas an	r of resolutions t ea. Obtaining an eement Area, an ped at a regiona	that highlight overview of nd ultimately al or national
Questions:				
6.1. Are data on recreational sea use ava	ilable for your cou	ntry?		
☐ No. Go to Question 6.3.☒ Yes. Provide information in the tall	ole below:			

 $^{^{\}rm 2}$ This is a question based on Resolution 8.1, Annex 1.

	Type of information: (e.g. number of licenced recreational vessels per region, tourist number per region, other)
	Yes, University of Copenhagen have been collecting this information covering all the Danish Sea in a database since 2013. It is now analysed as spatially and available as GIS mapping of marine recreational use intensity, 1×1 km grid, Data owner:
	Berit C. Kaae, Senior Researcher, Copenhagen University, email: bck@iqn.ku.dk
	Most recently the data is being analysed in the project ECOMAR: https://niva-denmark.dk/ecomar/
	Several reports have been published, but only in Danish: Kaae, BC, Olafsson, AS & Draux, H 2018, Blåt friluftsliv i Danmark. IGN Rapport, Institut for Geovidenskab og Naturforvaltning, Københavns Universitet.
	Riemann, B, Al-Hamdani, Z, Olafsson, AS, Hasler, B, Kaae, BC, Murray, C, Göke, C, Kallenbach, E, Olesen, HJ, Nabe-Nielsen, J, Tougaard, J, Andersen, JH, Egekvist, J, Overgaard Leth, J, Dahl, K, Christoffersen, M, Zandersen, M, Termansen, M, Sveegaard, S & Harvey, T 2019, Maritim arealplanlægning i Øresund: Scenarier for udvikling af erhvervs-, samfunds- og miljømæssige forhold. Miljøbiblioteket, bind 6, bind 6, Aarhus Universitetsforlag, Aarhus.
	Web link or other relevant link to data: only available through contact to data owner.
62 1	s information on main areas of recreational sea use available for your country?
MSFD, unders	range states are mapping human activities to fulfil obligations under the EU Maritime Spatial Planning Directive, OSPAR, and HELCOM; this information is relevant (though often not readily accessible) to ASCOBANS in standing the extent and trends of human activities potentially impacting small cetaceans. No. Not applicable. Comments: Yes. Provide information in the table below:
	Which area: (Please refer to the overview of OSPAR & HELCOM sub-regions in Annex A, if possible.) all of the Danish waters
	Danish waters
s [Danish waters Type of information: (e.g. maps, GIS files, reports) GIS maps Is the data available online? ☑ No. Comments:
s [Type of information: (e.g. maps, GIS files, reports) GIS maps Is the data available online? ☑ No. Comments: ☐ Yes. Provide link: Vas there any incidents of disturbance or harassment to small cetaceans in relation to recreational ea use in your country? ☐ No. ☑ Unknown.
6.4. E	Type of information: (e.g. maps, GIS files, reports) GIS maps Is the data available online? No. Comments: Yes. Provide link: Vas there any incidents of disturbance or harassment to small cetaceans in relation to recreational ea use in your country? No. Unknown. Yes. Provide information in the table below: Poes your country have any mitigation measures (codes of conducts/guidelines/laws/rules) in place in the event of disturbance or harassment of cetaceans through recreational sea use?
6.4. E	Type of information: (e.g. maps, GIS files, reports) GIS maps Is the data available online? No. Comments: Yes. Provide link: Was there any incidents of disturbance or harassment to small cetaceans in relation to recreational ea use in your country? No. Unknown. Yes. Provide information in the table below: Does your country have any mitigation measures (codes of conducts/guidelines/laws/rules) in place
6.4. E	Type of information: (e.g. maps, GIS files, reports) GIS maps Is the data available online? No. Comments: Yes. Provide link: Vas there any incidents of disturbance or harassment to small cetaceans in relation to recreational ea use in your country? No. Unknown. Yes. Provide information in the table below: Poes your country have any mitigation measures (codes of conducts/guidelines/laws/rules) in place in the event of disturbance or harassment of cetaceans through recreational sea use? No.

6.5. List initiatives/projects (including PhD, MSc) in 2016-2018 involving studies on the disturbance or harassment of cetaceans through recreational sea use in your country (incl. title, organisation, lead author, web link).

Laia Rojano Doñate is doing her PhD at Aarhus underwater noise on harbour porpoise energy,		ort of this s	he will exai	mine the effect	of
5.6. List publications (reports, theses, pap country relating to disturbance or ha		-			-
Hermannsen, L. 2019. A noise World: Characte and the impacts on marine mammals. PhD the					
Wisniewska, DM, Johnson, M, Teilmann, J, Sien noise disrupt foraging in wild harbour porpoise Biological Sciences, bind 285, nr. 1872, 201723	es (Phocoena phocoei	na)', Procee	dings of th	e Royal Society	-
Sveegaard, S, Tougaard, J & Teilmann, J 2017, s. – Danish report on the effect of recreational	· ·	_		Endelig afrapp	ortering', 11
5.7. Please provide web links to other rele	evant information f	or this sec	tion.		
Description				Web link	
5.8. Have there been any other notable in	nstances / issues in	your cour	try in the	reporting pe	riod?
5.8. Have there been any other notable in Not to our knowledge.	nstances / issues in	your cour	try in the	reporting pe	riod?
	nstances / issues in	your cour	try in the	reporting pe	riod?
Not to our knowledge. 5.9. Is the perceived level of pressure fro staying the same or unknown?	om recreational sea	use in yo	our count	ry increasing,	decreasin
Not to our knowledge. 5.9. Is the perceived level of pressure fro staying the same or unknown?	om recreational sea	use in yo	our count	ry increasing,	decreasin
Not to our knowledge. 5.9. Is the perceived level of pressure fro staying the same or unknown? To be done on a species by species basis where	om recreational sea applicable (see Annex	use in yo	our count	ry increasing, ere relevant (se Staying the	decreasin e Annex A).
6.9. Is the perceived level of pressure fro staying the same or unknown? ³ To be done on a species by species basis where some of the species	om recreational sea applicable (see Annex	use in yo	our count	ry increasing, ere relevant (se Staying the	decreasing e Annex A). Unknown

Not	ann	licable.	Comments:
IVOL	app	ilcabic.	Comments.

B. Disturbance (incl. potential physical impacts)

10. Other Sources of Disturbance

AIM: to identify new sources of disturbance that can be a threat to small cetaceans. Relevant Resolutions: 8.9, 8.1, 6.1

With human activities in the seas increasing particularly in the coastal zone, overlap of cetacean and human habitat use is not covered by the questions above. A human activity can for example cause a cetacean to change behaviour, or it can cause physical harm or death. This section aims to identify new sources of disturbance that can be a threat to small cetaceans. The issue of noise, for example, is covered under section В3.

³ This is a question based on Resolution 8.1, Annex 1.

7.1 Have there been and the items above?	y incidents of disturbance to small cetaceans in your country, not covered in
□ No.	
□ Unknown.	
☐ Yes. Please provide in	formation in the table below:
ny incidents of disturbance to	cetaceans not covered in Sections B5 or B6 by the report.
2.2 List initiatives/projects	(including PhD, MSc) in 2016-2018 involving studies on other sources of
	intry (incl. title, organisation, lead author, web link).
The DEPONS project (DISTURB	ANCE EFFECTS ONTHE HARBOUR PORPOISE POPULATION IN THE NORTH SEA) has
been ongoing 2012-2019 and i	has just finished – see reference below.
	Aarhus University 2017-2020: Modeling The Energetics And Population Dynamics Of Sea In Response To Anthropogenic Disturbance.
	ts, theses, papers in journals, books) in 2016-2018 from any study in your er sources of disturbance.
	model version 2.0: Individual-based model for simulating impact of wind farm hour porpoise population. [Software].
https://doi.org/10.5281/zenoc	
	1025
Brandt M, Dragon A-C, Dieder	ichs A, Bellmann MA, Wahl V, Piper W, Nabe-Nielsen J, Nehls G. 2018. Disturbance of
_	truction of the first seven offshore wind farms in Germany. Marine Ecology -
Progress Series. 596(213-232):	213-232. https://doi.org/10.3354/meps12560
van Boost E. Toilmann I. Horn	annean I. Calatina A. Mikkalean I. Sugaggard C. Balla ID. Dietz B. Naha Nielean I
	annsen L, Galatius A, Mikkelsen L, Sveegaard S, Balle JD, Dietz R, Nabe-Nielsen J. sponses of free-ranging harbour porpoises to capture, tagging and short-term noise
	eyal Society Open Science. 5(1). https://doi.org/10.1098/rsos.170110
van Beest FM, Kindt-Larsen L,	Bastardie F, Bartolino V, Nabe-Nielsen J. 2017. Predicting the population-level
impact of mitigating harbor po	orpoise bycatch with pingers and time-area fishing closures. Ecosphere (Washington,
D.C.). 8(4). https://doi.org/10.	
Mikkelsen L. Hermannsen L. Be	eedholm K, Madsen PT, Tougaard J. 2017. Simulated seal scarer sounds scare
	es-specific responses to 12 kHz deterrence sounds. Royal Society Open Science. 4(7).
https://doi.org/10.1098/rsos.1	
Kindt-Larsen L. Bera CW. Toua	aard J, Sørensen TK, Geitner K, Northridge S, Sveegaard S, Larsen F. 2016.
	s for harbour porpoise Phocoena phocoena bycatch using remote electronic
	etry data. Marine Ecology. 555:261-271. https://doi.org/10.3354/meps11806
	n PT. 2016. Noise exposure criteria for harbour porpoises. Popper AN, Hawkins A,
red. I The effects of noise on a Biology).	quatic life II. Springer. s. 1167-1173. (Advances in Experimental Medicine and
Wichiaucka DM Johnson M 7	ailmann I Baigna Dagata I Shagrar I Sugaggard S Millar I A Sighart II Madaar BT
	eilmann J, Rojano Doñate L, Shearer J, Sveegaard S, Miller LA, Siebert U, Madsen PT.
	es of Harbor Porpoises Make Them Vulnerable to Anthropogenic Disturbance. 1446. https://doi.org/10.1016/j.cub.2016.03.069
Carrett biology. 20(11).1441-1	-++0. IICLP3.//401.019/10.1010/J.Cub.2010.03.003

7.5 Has there been any other notable instances / issues in your country the reporting period?

Description

Web link

unknown
C. Habitat Change and Degradation (incl. potential physical impacts)
10. Pollution and hazardous substances (incl. microplastics)
AIM: to illustrate progress, during the reporting period, on understanding, monitoring and mitigating impacts on cetaceans of important and emerging pollution-related hazards.
Relevant Resolutions: 8.9, 8.8, 8.7, 8.4, 8.3, 8.2, 8.1, 7.4, 7.1, 6.1, 5.7
Our oceans have been subject to a wide range of different types of pollution over the last decades. Top-predators such as small cetaceans that feed on higher trophic prey, tend to accumulate many of these potentially hazardous substances. There are a number of contaminants and pathogens that are known or suspected to have impacts on cetacean health, immune status or reproduction. These include for example: polychlorinated biphenyls (PCBs) and other persistent organic pollutants (POPs), oil pollution (polycyclic aromatic hydrocarbons), toxins from harmful algal blooms (HABs), sewage, radionuclides, toxic elements, tri-butyl tin (TBT), morbillivirus, and Brucella. In addition, micro- and nano-plastics are also present in the environment and their impacts are presently poorly understood.
Monitoring can be done in tissues of cetaceans obtained from live animals through biopsies, or from dead animals that are generally found on the shore. Necropsies allow the sampling of different tissues such as blubber, muscle, kidney or liver and these can be analysed subsequently. To better understand the impact of contaminants on cetacean health, to detect new emerging hazards and to work towards a common protocol for analysing sampling Parties are asked to provide information on their programs.
NOTE: Macroplastics and discarded fishing gear are covered under Section C 9 Marine Debris.
Questions:
11. Does your country conduct monitoring of pollutants in small cetaceans?
Several pollutants have serious effects on individual cetaceans and can threaten populations. The aim is to capture the nature of existing monitoring and identify gaps in terms of which pollutants are monitored, the extend of this monitoring and the establishment of securely funded long-term data series. No. Yes.
Any comments:
12. Who is carrying out the pollutant monitoring program? Please provide information on the institution(s)/agencies that collect the samples and carry out the analyses. Copy table if needed.
Name: Role in monitoring: (e.g. sample collection, analyses, other) Postal Address: Contact Person: Telephone:
- oraphone.

	reporting	period fro			ne year in v	which tl	he specie	es was sampled with an	
2016	2017	2018		pecies ⁴	2016	2017	2018	Species	
			Choo	se a species				Choose a species	
			Choo	se a species				Choose a species	
ny com	nments:								
	Necrops Necrops Sample t Biopsy fi	y from stray from byour from live some live are pecify in co	anding catch tranding	multiple answ	vers possi	ble)			
	he geogra		verage of	OSPAR Region	ı IV Bay o	•		nswers are possible) M cont.	
Norwe	egian Sea			and Iberian Coast		☐ Gulf of Finland			
SPAR R	egion II Gre	ater North	Sea	□ N. Bay of B □ Iberian Sea	-			thern Baltic Proper	
Dogge	_			Gulf of Cadiz			☐ Western Gotland Basin☐ Eastern Gotland Basin		
South	ern North S	ea					☐ Gulf of Riga		
	ern North S	ea		OSPAR Region V Wider Atlantic			☐ Gdansk Basin		
Chann				☐ subregions?			☐ Bornholm Basin		
	egian Trencl	1		HELCOM			ona Basin		
Skage	пак				Rothnian Bay			=	
SPAR R	egion III Cel	tic Sea		□ Bothnian Sea			: Sea Sound		
☐ Celtic Sea				☐ Archipelago Sea			l ine	Souria	
Certic				☐ Åland Sea					
Irish S	Scottish W								
Irish S Irish 8	the regions	and sub-re	gions can b	e found in the Ai	nnex A.				
Irish S Irish 8		ninant / p	oathogen	analyses you	have con	ducted	l for sma	all cetaceans.	
Irish S Irish 8 map of	he contar	\	☐ Radi	onuclides	☐ Bruc	cella		☐ Others:	
Irish S Irish 8 map of	he contar	. PCBs)	· - ·		c elements		S	☐ Others:	
Irish S Irish 8 map of	POPs (e.g	-	☐ Toxi	c elements	□ Nanoplastics			+	
Irish S Irish 8 map of	POPs (e.g	AHs)	☐ Toxid	c elements	□ Nan	oplastics	5	☐ Others:	
Irish S Irish 8 map of	POPs (e.g Oil (e.g. P	AHs)	□ ТВТ	c elements billivirus	□ Nan	oplastics	i	☐ Others:	

 $^{^{\}rm 4}$ Please refer to Annex B for list of species, including scientific names.

No. Go to Question 10.9.					
☐ Yes. Please provide information i	n the table below:				
Do you have a specific protocol to monitor m		taceans?	□ No	□ Yes	
If yes, please provide details and weblinks or u	pload document.				
There is currently no agreed protocol between Pobtained are comparable between research insduring processing, e.g. with airborne microplast	stitutes. In particular,				
List initiatives/projects (including PhD, impact of pollution and hazardous sub- organisation, lead author.	-	-			
Rune Dietx and Christian Sonne. The Ongoing p Danish poprpoises. https://projects.au.dk/bon		olanning to	examin	e the POP concen	tration in
country in 2016-2018 relating to the immicroplastics) on small cetaceans. We need to capture information on new know especially results which enhance our understantikely effects on cetacean population status (e.g. inhibition of reproduction). Where relevant, plea	wledge arising from ading of impacts of ho g. considering PCB con	monitorin azardous p acentration	g schem ollutant ns in blul	es or other rese s and/or assess t bber in relation to	arch project heir known (
impact of pollution and hazardous substai					
——————————————————————————————————————	Tees (IIIei. IIIIei opius	tics) on s	man cct	uccuris.	
f applicable, list any additional eviden cetaceans following implementation of contaminant levels in blubber over tim	f national mitigati		-		nall
Not applicable					
Тосаррисано					
Provide web links to other relevant inf	ormation to this s	ection.		Mark Park	
Description				Web link	
Has there been any other notable insta					
ing there been any editer hetable high	ances / issues in y	our cour	try in t	ne reporting p	period?
·	ances / issues in y	our cour	itry in t	ne reporting p	period?
unknown	ances / issues in y	our cour	itry in t	ne reporting p	period?
unknown Is the perceived pressure from pollution decreasing, staying the same or unknown	on and hazardous : wn? ⁵	substand	es in y	our country in	creasing,
unknown Is the perceived pressure from pollution decreasing, staying the same or unknown To be done on a species by species basis where	on and hazardous : wn? ⁵ applicable (see Annex	substand	es in y	our country in	creasing,
unknown s the perceived pressure from pollution decreasing, staying the same or unknown	on and hazardous : wn? ⁵	substand	es in y	our country in	creasing,
unknown Is the perceived pressure from pollution decreasing, staying the same or unknown To be done on a species by species basis where	on and hazardous : wn? ⁵ applicable (see Annex	substand	es in y	our country in where relevant (see Staying the	creasing,
unknown Is the perceived pressure from pollution decreasing, staying the same or unknown To be done on a species by species basis where	on and hazardous : wn? ⁵ applicable (see Annex	substand	es in y	our country in where relevant (see Staying the	creasing,

 $^{^{\}rm 5}$ This is a question based on Resolution 8.1, Annex 1.

C. Habitat Change and Degradation (incl. potential physical impacts)

11. Ship Strikes

AIM: Understanding the potential risk of ship strike as a cause of injury/death in small cetaceans. *Relevant Resolutions: 8.9, 8.2, 8.1, 6.1, 5.4*

Ship strikes are collisions between vessels and cetaceans. In the last decades evidence has emerged that ship strikes might occur more often than previously thought and can have a significant impact on small resident cetacean populations. Most research so far has focused on large cetaceans as those animals are often carried visibly into port at the bow of a vessel. For small cetaceans ship strike events are not well documented.

Ship strike occurrence is directly linked to the frequency of shipping activity, including such directed at cetaceans, i.e. cetacean watching. To quantify this risk, it is important to know what kind of vessels are involved in the strike, in particular the vessel speed as well as the type and size of vessel. But it is also important to have information on the cetaceans involved, in particular if the animals were engaged in a particular behaviour such as feeding.

Ship strike can cause direct death or injury in cetaceans. Even collisions that are non-fatal might leave individuals with a reduction in their survival chances. To determine the occurrence of ship-strikes different sources are used. For small cetaceans, direct observations are the rarest. Necropsies of stranded animals can find evidence of characteristic trauma and photographs of animals that survived ship strikes can show typical injuries, such as marks left by propellers. One way to quantify how many animals in a population are impacted by ship strike is to look at the percentage of animals in a photo-identification catalogue that show ship strike marks.

As this is still a not well documented threat this section aims to obtain an overview of what kind of data and research is available and ongoing in the Parties.

Questions:

☑ No. Go to Question 11.2.

11.1. Are there reports available in your country of ship strikes with small cetaceans from visual observations?

The International Whaling Commission (IWC) has a global database for ship strike incidents with cetaceans. Whether or not your country is Party to the IWC, it is encouraged for countries to provide all ship strike incident information to the IWC database.

Li Yes. Please provide information in the table below:
Has the incident of a ship strike with a small cetacean been submitted to the IWC Ship Strike Database? ☐ No ☐ Yes ☐ Unknown
Area: (check with OSPAR/HELCOM map in Annex A) Choose a region
Species name (scientific), if known (see Annex B):
Date of incident:
Contact: (if available contact details of the observer)
Description of the observed incidence: (Group size if other cetaceans presence, was the cetacean alive or dead after the collision, was the animal retrieved, indications of animal being dead before collusion, any other information; if known, provide information on the vessel type, name, speed of the vessel, any damage to the vessel or injuries to people)

If animal was retrieved and necropsied, is there a necropsy report for this cetacean? \Box No \Box Yes

List any o	other relevant links to we	ebsites or other info	rmation, photograph	ns or publications, if a	available:		
20 :	e there reports in your 18? No. Go to Question 11 Yes. Please provide inf	3 .		opsies of stranded	l animals [·]	for 2010	
verview (of necropsied small cetac	eans showing eviden	ce of ship-strike.				
	Location			Necropsied animals	i		
Year	Sub-area (OSPAR / HELCOM)	Species	Number of animals showing ship strike	Number of animals with known cause of	with cause	r of animals use of death p strike	
	(00.7, 1.1220,		markings ⁶	death	possible	certain	
	Choose a region	Choose a species					
	Choose a region	Choose a species					
	Choose a region cource of information and es your country have	<u> </u>		at a cause of deat	th in post	morte	
1.3. Do exa ⊠	ource of information and	a protocol in use essel strike?		at a cause of deat	th in post	morte	
1.3. Do exa ⊠	es your country have amination is due to a v	a protocol in use essel strike?	e to determine tha			morte	
1.3. Do exa A ve 1.4. Is t of a corpopular atalogues vidence of a corpop	es your country have amination is due to a vonce. Please provide information will aim to a chere evidence in your any non-lethal ship strations of small cetaceans, is of animals that show shan be a useful tool to mono. No. we do not have a Yes. Please provide information and the country in	a protocol in use essel strike? formation below: determine the cause ike for the 2016-20 such as bottlenose of hip-strike evidence (initor the development photo-ID monitorio formation in the ta	e to determine the e of death during he sting photo-identifular. Sting photo-identifular of this threat. Ing program. ble below:	arbour porpoise audication catalogues	topsy. of small c	etacear	
1.3. Do exa A ve 1.4. Is t of a corpopular atalogues vidence of a corpop	es your country have amination is due to a vonce. Yes. Please provide inference in your any non-lethal ship strations of small cetaceans, is of animals that show so an be a useful tool to mo. No. we do not have a	a protocol in use essel strike? formation below: determine the cause ike for the 2016-20 such as bottlenose of hip-strike evidence (initor the development photo-ID monitorio formation in the ta	e to determine the e of death during he sting photo-identifular. Sting photo-identifular of this threat. Ing program. ble below:	arbour porpoise audication catalogues	topsy. of small c	etacear	
1.3. Do exa A ve 1.4. Is t of a catalogues vidence of a catalogue vidence of a cat	es your country have amination is due to a vonce. Yes. Please provide information will aim to a sterinarian will aim to a	a protocol in use essel strike? Formation below: determine the cause ike for the 2016-20 such as bottlenose thip-strike evidence (nitor the development photo-ID monitoric formation in the tapphoto-identification of the development of the development photo-identification of the development of the	e to determine the e of death during he sting photo-identif 018? dolphins, one can ide e.g. scars). Monitorin nt of this threat. ng program. ble below: catalogues	ication catalogues intify those animals in	of small on photo-ide that show s	e etacear ntification ship stril	

11.6. List initiatives/projects (including PhD, MSc) involving studies of ship strike and its possible effects on small cetaceans for 2016-18 in your country (incl. title, organisation, lead author)

⁶ These can be sub-acute (animal dies not immediately after the ship-strike) or chronic lesions (scar forming starts, but there is likely infection/inflammation) or healed lesions that are unrelated to the cause of death (although they could have affected an animals health status in the longer term).

No in	formation available				
11.7.	List publications (reports, theses, pa	apers in journals, b	ooks) from your (country relating	to small
No in	oformation available				
11.8.	List any management / policy action routing, tracking animals, ship spee	_		or small cetacea	ns (re-
No in	oformation available		·		
11.9.	Has there been any other notable in country in the reporting period?	nstances / issues of	f ship strike on sn	nall cetaceans in	your
No ir	nformation available				
	. Is the perceived level pressure from decreasing, staying the same or undone on a species by species basis where	nknown? ⁷			-
	Scientific name of the species	Increasing	Decreasing	Staying the same	Unknown
	Harbour porpoise				х
	White beaked dolphin				х
	Minke whale				X

Not	applicable	. Comments:

C. Habitat Change and Degradation (incl. potential physical impacts)

12. Climate change (incl. ocean acidification)

AIM: To illustrate progress on understanding, monitoring and mitigating negative effects on small cetaceans of important and emerging climate-change-related hazards.

Relevant Resolutions: 8.9, 8.4, 8.3, 8.2, 8.1, 7.4, 7.1, 6.1, 5.7

It is certain that climate change is altering the habitat of cetaceans. However, our understanding on how the predicted changes will impact different species and populations is still lacking. CMS⁸ highlights the importance on addressing potential issues through the engagement of researchers to better understand the underlying processes, as well as conservation managers and policy makers to monitor changes and to mitigate negative impacts. Focussing on tangible climate change effects relevant to cetaceans, such as ocean warming, prey depletion / prey range shifts, ocean acidification, increased frequency and intensity of ocean storms, changes in sea ice, weakening of the North Atlantic Drift, we need to gather evidence on the

⁷ This is a question based on Resolution 8.1, Annex 1.

⁸ CMS Resolution 12.21 on Climate Change and Migratory Species.

existence and nature of climate change effects on small cetaceans and evaluate current monitoring programmes and mitigation measures.

This section aims to provide an overview of what kind of activities are already ongoing in the member states to address climate change. The focus is hereby on those actions specifically regarding cetaceans as well as the most likely impacts on their habitat and prey. Climate change represents possibly the most important future threat to the status of cetaceans in the ASCOBANS region. Direct effects may arise due to ocean warming, resulting in (generally northward) in distribution shifts so that the animals continue to occupy waters with temperature regimes compatible with their thermal niches. Key indirect effects will result from changes in prey distribution and abundance due to ocean warming, ocean acidification and changes in ocean current systems.

Questions:

12.1. Does your country monitor climate effects on cetaceans?9

Climate change will have a multiplicity of possible direct and indirect effects on cetaceans. Attempting to quantify this is challenging, these questions are aimed to provide an overview of the type of monitoring programmes that are conducted that may provide indirect evidence of climate change on cetaceans.

X	No. Go to Question 12.3.
	Yes. Continue to Question 12.2

12.2. Which effects has your country been monitoring in the reporting period from 2016 to 2018?

Overview of monitoring activities related to climate change effects on small cetaceans. Please add additional direct or indirect effects if applicable.

indirect effects if applicable.	Comments
Monitoring activity	(if possible, provide e.g. contact / link to project)
☐ Changes in small cetacean abundance	
☐ Changes in small cetacean distribution	
☐ Changes in small cetacean migration or movement range	
☐ Changes in small cetacean migration or movement timing	
☐ Changes in small cetacean community structure	
☐ Changes in reproductive success and timing in small cetaceans	
☐ Changes in prey (fish) abundance and distribution	
☐ Changes in timing of prey (fish) spawning and migration	
☐ Changes in fishing effort	
☐ Changes in the occurrence of pathogens (from sampled individuals)	
☐ Incidences of algal blooms (if yes, where; specify year)	
	

⁹ This refers to direct and indirect effects.

12.3. List new initiatives / projects which cetaceans in your country in 2016 concerned, the climate change effect	5-2018 (title, orga	nization, lead a	•			
Provide web links if available.	Provide web links if available.					
12.4. List new reports/publications which provide evidence / data of climate change effects on small cetaceans in your country in 2016-2018 (title, organization, lead author; include the species concerned, the climate change effect observed, who did the work) Provide web links if available.						
Trovide web links if available.						
12.5. Are there any actions / measures in small cetaceans (directly or indirectly No. Yes. Please describe below:		educe identified	climate change	impacts on		
12.6. List any gaps in monitoring / mitigation order to plan future monitoring and mitigation		-		es.		
12.7. List any emerging potential issues rel	lated to climate ch	ange effects on s	mall cetaceans			
12.8. Has there been any other notable in in your country in the reporting periods.		climate change o	effects on small	cetaceans		
	12.9. Is the perceived level of pressure from climate change to small cetaceans in your country increasing, decreasing, staying the same or unknown? ¹⁰					
Scientific name of the species	Increasing	Decreasing	Staying the same	Unknown		
□ Not applicable. Comments:						
C. Habitat Change and Degradation (incl. p	otential physical in	npacts)				
13. Physical Habitat Change (e.g. from construction)						

 $^{^{10}}$ This is a question based on Resolution 8.1, Annex 1.

AIM: Human activities in the Agreement area have the potential to impact upon small cetaceans. Tracking those activities causing physical habitat change and better understanding their relative impacts will help shape any necessary mitigation action required.

Relevant Resolutions: 8.11, 8.9, 8.6, 8.4, 8.3, 8.2, 8.1, 7.1, 6.2, 6.1, 5.7

Human activities in the Agreement area have the potential to impact upon small cetaceans. Tracking those activities that cause physical habitat change and obtaining a better understanding of their relative impacts will help shape any necessary mitigation action.

This section aims to review new information on physical habitat change, e.g. from construction, and its impacts on small cetaceans, their prey and their habitat, and make recommendations to Parties and other relevant authorities for further action.

The collation of this information will contribute to the development of risk maps showing the spatial and temporal (by season) distribution of activities that have an impact on cetaceans, including information provided in National Reports, taking into account the work done by other organisations.

Note: In the term "physical habitat change", we include a) coastal/marine construction – artificial islands, harbours, bridges, oil/gas platforms, wind turbines, tidal turbines; and b) seabed damage – dredging, bottom trawling.

Questions:

13.1. Provide spatial information on locations (in form of maps and/or links) of physical habitat change in your country by activity type (dredging, marine construction, coastal construction) for 2016-18.

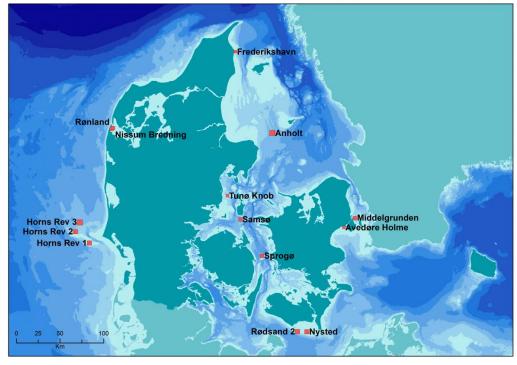
Many range states are mapping human activities to fulfil obligations under the EU Maritime Spatial Planning Directive, MSFD, OSPAR, and HELCOM; this information is relevant (though often not readily accessible) to ASCOBANS in understanding the extent and trends of human activities potentially impacting small cetaceans.

Activity: Marine wind farms. Denmark has many marine wind farms and more are continuously being planned and constructed. A total list of existing and planned projects can be found here:

https://ens.dk/ansvarsomraader/vindenergi/eksisterende-havvindmoelleparker-og-aktuelle-projekter

Which area: Danish national waters

Type of information: Map of existing wind farms:



List of size and year of operation:

- Middelgrunden (2000) 20 turbines, 40 MW	
- Horns Rev I (2002) 80 turbines, 160 MW	
- Rønland (2003) 8 turbines, 17,2 MW	
- Nysted (2003) 72 turbines, 165,6 MW	
- Samsø (2003) 10 turbines, 23 MW	
- Frederikshavn (2003) 3 turbines, 7,6 MW	
- Horns Rev II (2009) 91 turbines, 209,3 MW	
- Avedøre Holme (2009/10) 3 turbines, 10,8 MW	
- Sprogø (2009) 7 turbines, 21 MW	
- Rødsand II (2010) 90 turbines, 207 MW	
- Anholt (2013) 111 turbines, 399,6 MW	
- Horns Rev 3 (2019) 49 turbines; 400 MW	
Is the data available online? No. Comments: Yes. Provide link: https://ens.dk/ansvarsomraader/vindenergi/eksisterende-havvindmoelleparker-og-aktuelle-projekter	
<u>navvindmoelleparker-og-aktuelle-projekter</u>	
□ No. □ Yes. Describe in the table below:	
Will be included in next draft	
 3.3. Does your country have any mitigation measures to prevent impacts on small cetaceans duphysical habitat change activities (e.g. dredging, marine construction, coastal construction)? No. Yes. Describe in the table below: verview of mitigation measures related to small cetaceans and physical habitat change activities.	ring
physical habitat change activities (e.g. dredging, marine construction, coastal construction)? No. Yes. Describe in the table below: verview of mitigation measures related to small cetaceans and physical habitat change activities.	ring
 physical habitat change activities (e.g. dredging, marine construction, coastal construction)? □ No. ☑ Yes. Describe in the table below: 	
physical habitat change activities (e.g. dredging, marine construction, coastal construction)? No. Yes. Describe in the table below: verview of mitigation measures related to small cetaceans and physical habitat change activities. Any new project has to abide by the regulations in the habitats directive regarding the protection of harbour porpoises. Thus all new project have to assess their impact on porpoises and mitigate if the impact are assessed in the impact are asse	
physical habitat change activities (e.g. dredging, marine construction, coastal construction)? No. Yes. Describe in the table below: verview of mitigation measures related to small cetaceans and physical habitat change activities. Any new project has to abide by the regulations in the habitats directive regarding the protection of harbour porpoises. Thus all new project have to assess their impact on porpoises and mitigate if the impact are assessed thave a long-term impact on the local population. The Danish Energy Agency have published guidelines for procedure and mitigations with relation to marine constructions.	
physical habitat change activities (e.g. dredging, marine construction, coastal construction)? No. Yes. Describe in the table below: Verview of mitigation measures related to small cetaceans and physical habitat change activities. Any new project has to abide by the regulations in the habitats directive regarding the protection of harbour porpoises. Thus all new project have to assess their impact on porpoises and mitigate if the impact are assessed thave a long-term impact on the local population. The Danish Energy Agency have published guidelines for procedure and mitigations with relation to marine constructions. To be extended in next draft. 3.4. List initiatives/projects (including PhD, MSc) in your country in 2016-2018 involving studies.	es of
physical habitat change activities (e.g. dredging, marine construction, coastal construction)? No. Yes. Describe in the table below: verview of mitigation measures related to small cetaceans and physical habitat change activities. Any new project has to abide by the regulations in the habitats directive regarding the protection of harbour porpoises. Thus all new project have to assess their impact on porpoises and mitigate if the impact are assessed thave a long-term impact on the local population. The Danish Energy Agency have published guidelines for procedure and mitigations with relation to marine constructions. To be extended in next draft.	es of
physical habitat change activities (e.g. dredging, marine construction, coastal construction)? No. Yes. Describe in the table below: Verview of mitigation measures related to small cetaceans and physical habitat change activities. Any new project has to abide by the regulations in the habitats directive regarding the protection of harbour porpoises. Thus all new project have to assess their impact on porpoises and mitigate if the impact are assessed thave a long-term impact on the local population. The Danish Energy Agency have published guidelines for procedure and mitigations with relation to marine constructions. To be extended in next draft. 3.4. List initiatives/projects (including PhD, MSc) in your country in 2016-2018 involving studies.	es of
physical habitat change activities (e.g. dredging, marine construction, coastal construction)? No. Yes. Describe in the table below: No. No. No. No. No. No. No. No	es of
physical habitat change activities (e.g. dredging, marine construction, coastal construction)? No. Yes. Describe in the table below: No. No. No. No. No. No. No. No	es of
physical habitat change activities (e.g. dredging, marine construction, coastal construction)? No. Yes. Describe in the table below: Nerview of mitigation measures related to small cetaceans and physical habitat change activities. No. No. No. No. No. No. No. N	es of

13.5. List publications (reports, theses, papers in journals, books) in 2016-2018 in your country relating to potential impacts of physical habitat change on small cetaceans.

scheduled to be effectuated in 2020. This project will describe changes to the soundscape, quantify effects on harbour porpoise abundance, and correlate these changes to the changes in ship traffic.

Nabe-Nielsen J. 2019. DEPONS model version 2.0: Individual-based model for simulating impact of wind farm construction noise on the North Sea harbour porpoise population. [Software]. https://doi.org/10.5281/zenodo.2544525 Brandt M, Dragon A-C, Diederichs A, Bellmann MA, Wahl V, Piper W, Nabe-Nielsen J, Nehls G. 2018. Disturbance of harbour porpoises during construction of the first seven offshore wind farms in Germany. Marine Ecology - Progress Series. 596(213-232):213-232. https://doi.org/10.3354/meps12560 van Beest FM, Kindt-Larsen L, Bastardie F, Bartolino V, Nabe-Nielsen J. 2017. Predicting the populationlevel impact of mitigating harbor porpoise bycatch with pingers and time-area fishing closures. Ecosphere (Washington, D.C.). 8(4). https://doi.org/10.1002/ecs2.1785 Sveegaard S, Teilmann J, Tougaard J 2017. Marine mammals in the Swedish and Danish Baltic Sea in relation to the Nord Stream 2 project: Expert Assesment. Aarhus University, DCE - Danish Centre for Environment and Energy. 68 s. (Scientific Report from DCE - Danish Centre for Environment and Energy, Bind 237). Wisniewska DM, Johnson M, Teilmann J, Rojano Doñate L, Shearer J, Sveegaard S, Miller LA, Siebert U, Madsen PT. 2016. Ultra-High Foraging Rates of Harbor Porpoises Make Them Vulnerable to Anthropogenic Disturbance. Current Biology. 26(11):1441-1446. https://doi.org/10.1016/j.cub.2016.03.069 Provide web links to other relevant information. 13.6. Has there been any other notable instances / issues in your country regarding physical habitat **13.7.** change in the reporting period? unknown 13.8. Is the perceived level of pressure from physical habitat change) in your country increasing, decreasing, staying the same or unknown?¹¹ To be done on a species by species basis where applicable (see Annex B) and by region where relevant (see Annex A). Staying the Unknown Scientific name of the species Increasing Decreasing same Harbour porpoise

П	Not	applicable.	Comments:
_	1100	applicable.	commicnes.

C. Habitat Change and Degradation (incl. potential physical impacts)

14. Other issues

Question:

14.1. List any other issues not mentioned above.

¹¹ This is a question based on Resolution 8.1, Annex 1.

E. Area-based Conservation / Marine Protected Areas

16. List of protected areas, e.g. Natura 2000 sites

AIM: to provide information on existing and proposed marine protected areas with cetaceans as part of the selection criteria.

Relevant Resolutions: 8.2, 8.1, 5.7

Marine protected areas (MPAs) are considered under numerous agreements (including the Convention on Biological Diversity, Habitats Directive, Bern Convention, Ramsar Convention, OSPAR Convention, HELCOM, ACCOBAMS) as a tool to achieve conservation goals. Part of ASCOBANS remit is to provide expert advice for the conservation and management of small cetaceans. This includes inviting Parties and Range States to continue or initiate research aimed at locating areas of special importance to the survival (in particular breeding and feeding) of small cetaceans as suitable sites for the establishment of protected areas, and to implement appropriate management actions in these areas on their own or in the context of other intergovernmental bodies to ensure the protection of small cetaceans.

To monitor the progress of such work to fulfil the obligations of Resolution 5.7 (2006) and actions in the 2017-2020 workplan, ASCOBANS requires information (e.g. location, species, status, spatial data, management plans and monitoring) on existing and proposed marine protected areas with cetaceans as part of the selection criteria.

It is of particular interest to ASCOBANS to obtain an overview of the current scale of marine protected areas and to review best practice approaches to management of marine protected areas, in order to make recommendations to Parties, taking MPAs beyond being just 'paper parks'.

Questions:

16.1. Please complete and/or update the following table, providing details of existing or proposed MPAs with cetaceans forming part of the selection criteria.

Please copy the table for each MPA.

Name (full name of MPA)	Sydlige Nordsø, DK00VA347		
ASCOBANS Action Plan	□ Jastarnia Plan □ WBBK Plan ☑ North Sea Plan □ Not Applicable		
OSPAR / HELCOM sub-area	Region II, Southern North Sea		
Size (m²)	2473000000 (2473 km2)		
Cetacean species forming part of selection criteria	Harbour porpoise		
MPA status	☑ Designated☐ Submitted☐ Under consultation	☐ Recommended ☐ Other, please specify:	
Date of designation (if applicable)	2011		
Legislation / Directive	Habitats Directive		
Are there management measures in place?	☑ No. □ Yes. Provide link:		

Link to shapefiles and/or or online	http://natura2000.eea.europa.eu/Natura2000/SDF.aspx?site=DK0			
map Link to any other online information	<u>0VA347</u>			
Link to any other online mornidation				
Name (full name of MPA)	Vadehavet med Ribe Å, Tved Å og	Varde Å vest for Varde, DK00AY176		
ASCOBANS Action Plan	 ☐ Jastarnia Plan ☐ WBBK Plan ☐ Not Applicable 			
OSPAR / HELCOM sub-area	Region II, Southern North Sea			
Size (m²)	1353000000 (1353 km2)			
Cetacean species forming part of selection criteria	Harbour porpoise			
MPA status	 ☑ Designated ☐ Submitted ☐ Under consultation ☐ Recommended ☐ Other, please specify: 			
Date of designation (if applicable)	2011			
Legislation / Directive	Habitats Directive			
Are there management measures in place?	☒ No.☐ Yes. Provide link:			
Link to shapefiles and/or or online map	http://natura2000.eea.europa.eu/Natura2000/SDF.aspx?site=DK0 0AY176			
Link to any other online information				
Name (full name of MPA)	Gule Rev, DK00VA259			
ASCOBANS Action Plan	☐ Jastarnia Plan ☑ North Sea Plan	☐ WBBK Plan☐ Not Applicable		
OSPAR / HELCOM sub-area	Region II, Skagerrak			
Size (m²)	109000000 (109 km2)			
Cetacean species forming part of selection criteria	Harbour porpoise			
MPA status	 ☑ Designated ☐ Submitted ☐ Under consultation ☐ Recommended ☐ Other, please specify: 			
Date of designation (if applicable)	2011			
Legislation / Directive	Habitats Directive			
Are there management measures in place?	☑ No.☐ Yes. Provide link:			
Link to shapefiles and/or or online map	http://natura2000.eea.europa.eu/Natura2000/SDF.aspx?site=DK0 0VA259			
Link to any other online information				
Name (full name of MPA)	Store Rev, DK00VA258			
ASCOBANS Action Plan	☐ Jastarnia Plan ☐ WBBK Plan ☐ Not Applicable			

OSPAR / HELCOM sub-area	Region II, Skagerrak			
Size (m²)	109000000 (109 km2)			
Cetacean species forming part of selection criteria	Harbour porpoise			
MPA status	☑ Designated☐ Submitted☐ Under consultation	☐ Recommended ☐ Other, please specify:		
Date of designation (if applicable)	2011			
Legislation / Directive	Habitats Directive			
Are there management measures in place?	☒ No.☐ Yes. Provide link:			
Link to shapefiles and/or or online map	http://natura2000.eea.europa.e 0VA258	eu/Natura2000/SDF.aspx?site=DK0		
Link to any other online information				
Name (full name of MPA)	Skagens Gren og Skagerrak, DK00F.	X112		
ASCOBANS Action Plan	☐ Jastarnia Plan☐ WBBK Plan☐ Not Applicable			
OSPAR / HELCOM sub-area	Region II, Skagerrak			
Size (m²)	2703000000 (2703 km2)			
Cetacean species forming part of selection criteria	Harbour porpoise			
MPA status	 ☑ Designated ☐ Submitted ☐ Under consultation ☐ Recommended ☐ Other, please specify: 			
Date of designation (if applicable)	2011			
Legislation / Directive	Habitats Directive			
Are there management measures in place?	☒ No.☐ Yes. Provide link:			
Link to shapefiles and/or or online map	http://natura2000.eea.europa.e	eu/Natura2000/SDF.aspx?site=DK0		
Link to any other online information				
_				
Name (full name of MPA)	Store Middelgrund, DK00VA250			
ASCOBANS Action Plan	☐ Jastarnia Plan ☐ WBBK Plan ☐ North Sea Plan ☐ Not Applicable			
OSPAR / HELCOM sub-area	H Kattegat			
Size (m²)	21000000 (21km2)			
Cetacean species forming part of selection criteria	Harbour porpoise			
MPA status	 □ Designated □ Submitted □ Under consultation □ Recommended □ Other, please specify: 			

Date of designation (if applicable)	2011			
Legislation / Directive	Habitats Directive			
Are there management measures in place?	☑ No.☐ Yes. Provide link:			
Link to shapefiles and/or or online map	http://natura2000.eea.europa. 0VA250	eu/Natura2000/SDF.aspx?site=DK0		
Link to any other online information				
Name (full name of MPA)	Gilleleje Flak og Tragten, DK00VA1	71		
ASCOBANS Action Plan	☐ Jastarnia Plan ☐ WBBK Plan ☐ North Sea Plan ☐ Not Applicable			
OSPAR / HELCOM sub-area	H Kattegat			
Size (m²)	151000000 (151km2)			
Cetacean species forming part of selection criteria	Harbour porpoise			
MPA status	 ☑ Designated ☐ Submitted ☐ Under consultation ☐ Recommended ☐ Other, please specify: 			
Date of designation (if applicable)	2011			
Legislation / Directive	Habitats Directive			
Are there management measures in place?	No.☐ Yes. Provide link:			
Link to shapefiles and/or or online map	http://natura2000.eea.europa.eu/Natura2000/SDF.aspx?site=DK0 0VA171			
Link to any other online information				
Name (full name of MPA)	Røsnæs, Røsnæs Rev og Kalundbo	rg Fjord, DK005X276		
ASCOBANS Action Plan	☐ Jastarnia Plan☐ North Sea Plan	☑ WBBK Plan☐ Not Applicable		
OSPAR / HELCOM sub-area	H Belt Sea			
Size (m²)	57000000 (57km2)			
Cetacean species forming part of selection criteria	Harbour porpoise			
MPA status	☑ Designated ☐ Recommended ☐ Submitted ☐ Other, please specify: ☐ Under consultation			
Date of designation (if applicable)	2011			
Legislation / Directive	Habitats Directive			
Are there management measures in place?	☑ No.☐ Yes. Provide link:			
Link to shapefiles and/or or online map	http://natura2000.eea.europa.eu/Natura2000/SDF.aspx?site=DK0 05X276			
Link to any other online information				

Name (full name of MPA)	Fyns Hoved, Lillegrund og Lillestrand, DK008X183		
ASCOBANS Action Plan	☐ Jastarnia Plan☐ North Sea Plan	☑ WBBK Plan☐ Not Applicable	
OSPAR / HELCOM sub-area	H Belt Sea		
Size (m²)	22000000 (22km2)		
Cetacean species forming part of selection criteria	Harbour porpoise		
MPA status	☑ Designated☐ Submitted☐ Under consultation	☐ Recommended ☐ Other, please specify:	
Date of designation (if applicable)	2011		
Legislation / Directive	Habitats Directive		
Are there management measures in place?	☒ No.☐ Yes. Provide link:		
Link to shapefiles and/or or online map		eu/Natura2000/SDF.aspx?site=DK0	
Link to any other online information			
Name (full name of MPA)	Æbelø, havet syd for og Nærå, DKC	008X184	
ASCOBANS Action Plan	 ☐ Jastarnia Plan ☐ North Sea Plan ☐ Not Applicable 		
OSPAR / HELCOM sub-area	H Belt Sea		
Size (m²)	113000000 (113km2)		
Cetacean species forming part of selection criteria	Harbour porpoise		
MPA status	☑ Designated☐ Submitted☐ Under consultation	☐ Recommended ☐ Other, please specify:	
Date of designation (if applicable)	2011		
Legislation / Directive	Habitats Directive		
Are there management measures in place?	☒ No.☐ Yes. Provide link:		
Link to shapefiles and/or or online map	http://natura2000.eea.europa.eu/Natura2000/SDF.aspx?site=DK0 08X184		
Link to any other online information			
Name (full name of MPA)	Havet mellem Romsø og Hindsholm samt Romsø, DK008X185		
ASCOBANS Action Plan	☐ Jastarnia Plan ☐ WBBK Plan ☐ North Sea Plan ☐ Not Applicable		
OSPAR / HELCOM sub-area	H Belt Sea		
Size (m²)	42000000 (42km2)		

Cetacean species forming part of selection criteria	Harbour porpoise			
MPA status	☑ Designated☐ Submitted☐ Under consultation	☐ Recommended ☐ Other, please specify:		
Date of designation (if applicable)	2011			
Legislation / Directive	Habitats Directive			
Are there management measures in place?	☒ No.☐ Yes. Provide link:			
Link to shapefiles and/or or online map	http://natura2000.eea.europa.com/08X185	eu/Natura2000/SDF.aspx?site=DK0		
Link to any other online information				
Name (full name of MPA)	Lillebælt, DK008Z047			
ASCOBANS Action Plan	☐ Jastarnia Plan ☐ North Sea Plan	☑ WBBK Plan☐ Not Applicable		
OSPAR / HELCOM sub-area	H Belt Sea			
Size (m²)	352000000 (352km2)			
Cetacean species forming part of selection criteria	Harbour porpoise			
MPA status	☑ Designated☐ Submitted☐ Under consultation	☐ Recommended ☐ Other, please specify:		
Date of designation (if applicable)	2011			
Legislation / Directive	Habitats Directive			
Are there management measures in place?	No. Yes. Provide link:			
Link to shapefiles and/or or online map	http://natura2000.eea.europa.com/08Z047	eu/Natura2000/SDF.aspx?site=DK0		
Link to any other online information				
Name (full name of MPA)	Centrale Storebælt Og Vresen			
ASCOBANS Action Plan	☐ Jastarnia Plan ☐ North Sea Plan	☑ WBBK Plan☐ Not Applicable		
OSPAR / HELCOM sub-area	H Belt Sea			
Size (m²)	623000000 (623km2)			
Cetacean species forming part of selection criteria	Harbour porpoise			
MPA status	 ☑ Designated ☐ Submitted ☐ Under consultation ☐ Recommended ☐ Other, please specify: 			
Date of designation (if applicable)	2011			
Legislation / Directive	Habitats Directive			

Are there management measures in place?	☑ No. ☐ Yes. Provide link:				
Link to shapefiles and/or or online	☐ Yes. Provide link:				
map					
Link to any other online information					
Name (full name of MPA)	Maden på Helnæs og havet vest fo	r, DK008X198			
ASCOBANS Action Plan	☐ Jastarnia Plan☐ North Sea Plan☐ Not Applicable				
OSPAR / HELCOM sub-area	H Belt Sea				
Size (m²)	21000000 (21km2)				
Cetacean species forming part of selection criteria	Harbour porpoise				
MPA status	 ☑ Designated ☐ Submitted ☐ Under consultation ☐ Recommended ☐ Other, please specify: 				
Date of designation (if applicable)	2011				
Legislation / Directive	Habitats Directive				
Are there management measures in place?	☑ No.☐ Yes. Provide link:				
Link to shapefiles and/or or online map	http://natura2000.eea.europa.eu/Natura2000/SDF.aspx?site=DK0 08X198				
•	337.230				
Link to any other online information					
Link to any other online information					
Name (full name of MPA)	Flensborg Fjord, Bredgrund og farv omkring Als (Bredgrund), DK00VA2				
Name (full name of MPA)	omkring Als (Bredgrund), DK00VA2	⊠ WBBK Plan			
Name (full name of MPA) ASCOBANS Action Plan	omkring Als (Bredgrund), DK00VA2 ☐ Jastarnia Plan ☐ North Sea Plan	⊠ WBBK Plan			
Name (full name of MPA) ASCOBANS Action Plan OSPAR / HELCOM sub-area	omkring Als (Bredgrund), DK00VA2 ☐ Jastarnia Plan ☐ North Sea Plan H Belt Sea	⊠ WBBK Plan			
Name (full name of MPA) ASCOBANS Action Plan OSPAR / HELCOM sub-area Size (m²) Cetacean species forming part of	omkring Als (Bredgrund), DK00VA2 ☐ Jastarnia Plan ☐ North Sea Plan H Belt Sea 652000000 (652km2)	⊠ WBBK Plan			
Name (full name of MPA) ASCOBANS Action Plan OSPAR / HELCOM sub-area Size (m²) Cetacean species forming part of selection criteria	omkring Als (Bredgrund), DK00VA2 ☐ Jastarnia Plan ☐ North Sea Plan H Belt Sea 652000000 (652km2) Harbour porpoise ☑ Designated ☐ Submitted	□ Recommended			
Name (full name of MPA) ASCOBANS Action Plan OSPAR / HELCOM sub-area Size (m²) Cetacean species forming part of selection criteria MPA status	omkring Als (Bredgrund), DK00VA2 ☐ Jastarnia Plan ☐ North Sea Plan H Belt Sea 652000000 (652km2) Harbour porpoise ☑ Designated ☐ Submitted ☐ Under consultation	□ Recommended			
Name (full name of MPA) ASCOBANS Action Plan OSPAR / HELCOM sub-area Size (m²) Cetacean species forming part of selection criteria MPA status Date of designation (if applicable)	omkring Als (Bredgrund), DK00VA2 ☐ Jastarnia Plan ☐ North Sea Plan H Belt Sea 652000000 (652km2) Harbour porpoise ☑ Designated ☐ Submitted ☐ Under consultation 2011	□ Recommended			
Name (full name of MPA) ASCOBANS Action Plan OSPAR / HELCOM sub-area Size (m²) Cetacean species forming part of selection criteria MPA status Date of designation (if applicable) Legislation / Directive Are there management measures in	omkring Als (Bredgrund), DK00VA2 □ Jastarnia Plan □ North Sea Plan H Belt Sea 652000000 (652km2) Harbour porpoise ☑ Designated □ Submitted □ Under consultation 2011 Habitats Directive ☑ No. □ Yes. Provide link:	□ Recommended			
Name (full name of MPA) ASCOBANS Action Plan OSPAR / HELCOM sub-area Size (m²) Cetacean species forming part of selection criteria MPA status Date of designation (if applicable) Legislation / Directive Are there management measures in place? Link to shapefiles and/or or online	omkring Als (Bredgrund), DK00VA2 ☐ Jastarnia Plan ☐ North Sea Plan H Belt Sea 652000000 (652km2) Harbour porpoise ☑ Designated ☐ Submitted ☐ Under consultation 2011 Habitats Directive ☑ No. ☐ Yes. Provide link: http://natura2000.eea.europa.ee	 WBBK Plan Not Applicable Recommended Other, please specify: 			
Name (full name of MPA) ASCOBANS Action Plan OSPAR / HELCOM sub-area Size (m²) Cetacean species forming part of selection criteria MPA status Date of designation (if applicable) Legislation / Directive Are there management measures in place? Link to shapefiles and/or or online map	omkring Als (Bredgrund), DK00VA2 ☐ Jastarnia Plan ☐ North Sea Plan H Belt Sea 652000000 (652km2) Harbour porpoise ☑ Designated ☐ Submitted ☐ Under consultation 2011 Habitats Directive ☑ No. ☐ Yes. Provide link: http://natura2000.eea.europa.ee	 WBBK Plan Not Applicable Recommended Other, please specify: 			

ASCOBANS Action Plan	☐ Jastarnia Plan ☐ North Sea Plan	☑ WBBK Plan☐ Not Applicable		
OSPAR / HELCOM sub-area	H Belt Sea			
Size (m²)	115000000 (115km2)			
Cetacean species forming part of selection criteria	Harbour porpoise			
MPA status	 ☑ Designated ☐ Submitted ☐ Under consultation ☐ Recommended ☐ Other, please specify: 			
Date of designation (if applicable)	2011			
Legislation / Directive	Habitats Directive			
Are there management measures in place?	☑ No.☐ Yes. Provide link:			
Link to shapefiles and/or or online map		eu/Natura2000/SDF.aspx?site=DK0		
Link to any other online information				
To date (September 2019) no extra r Habitat Directives) are implemented 16.3. Provide details of existing or promanagement measures listed a	in the SACs for harbour porpoises	5.		
The SACs for harbour porpoises was desi scheme are described here for each geog	gnated in 2010 and have been monit	tored since 2011. The monitoring		
Jastarnia Plan: No MPAs but Passiv acoustic monitoring (PAM) in the most Eastern Danish waters in intervals.				
WBBK Plan: The population are counted (Ship and aerial survey) once during every 6 th year EU monitoring period during the so called "MiniSCANS" in collaboration with Sweden and Germany. The first count was in 2012 and the next will be in 2020. The six largest MPA in the WBBK area are also monitored by PAM (5 CPODs for 1 year per six year monitoring period).				
North Sea Plan : The 5 SACs are monitored annually by aerial surveys using the distance sampling method developed during SCANS-III.				
16.4. Recommend any best practice approaches to management (threat mitigation) of MPAs listed above for small cetaceans.				

16.5. List new initiatives/projects involving studies of cetaceans relating to MPAs in your country (title, organization, lead author; include the species concerned, who did the work)

In order to plan future approaches for MPA management and monitoring we need to be aware of current gaps and emerging issues.

Sveegaard et al. 2018-2019: Ongoing project to determine the power of passive acoustic monitoring – a powerful tool for detecting trends in harbour porpoise densities in Danish MPAs. Aarhus University.

16.6. List new reports/publications involving studies of cetaceans relating to MPAs in your country (title, organization, lead author; include the species concerned, who did the work)

van Beest FM, Kindt-Larsen L, Bastardie F, Bartolino V, Nabe-Nielsen J. 2017. Predicting the population-level impact of mitigating harbor porpoise bycatch with pingers and time-area fishing closures. Ecosphere (Washington, D.C.). 8(4). https://doi.org/10.1002/ecs2.1785

16.7.	Provide web links to other relevant information.

Section VI: Information and Education

A. Education and outreach

AIM: to determine if there are gaps in the outreach and education activities and if further materials should be produced in your country or by the Secretariat (e.g. on certain themes, species, regions, languages, for certain target audiences).

Relevant Resolutions: 8.3, 8.2, 5.8, 8.13

ASCOBANS Communication, Education and Public Awareness (CEPA) Plan¹² was presented at the 17th Meeting of the Advisory Committee. The purpose of the CEPA Plan was to identify actions and activities to be undertaken by the Secretariat, Parties and relevant partners. In addition, the Advisory Committee recommended the following overarching principles: (i) Carefully identifying the audience – e.g. children, students, policy makers, fishers – and making materials appropriate to each particular audience; (ii) Noting that different localities, communities and cultures may require different approaches; (iii) Preparing outreach and education materials in relevant languages (including on the website); and (iv) Building joint initiatives with 'partner' organizations and others. The CEPA aimed for more effective engagement with audiences, greater impact upon audiences, closer relationship with key conservation issues; more effective connection with educational, fundraising and promotional initiatives; and more effective and easily understood communication of relevant areas of science. In this spirit, the purpose of this section is to highlight successes and to identify potential gaps in outreach and education activities and related materials.

Questions:

1. Please list education/outreach <u>activities</u> in 2016-2018 in your country, which are of relevance to conservation of small cetaceans in ASCOBANS' remit (e.g. activities during the International Day of the Baltic Harbour Porpoise in May)

Harbouri	orpoise ill iviay)				
Organiser	Name of	Date(Location	Target audience	Links (for further information)
	activity	s)		(general public,	
	(incl.			scientists,	
	translation to			children, fishers;	
	English, where			other – please	
	applicable)			state)	

¹² See AC17 Report, Annex 10 (starting on page 65).

Copenhagen	Marine	annu	Copenhagen	University	https://kurser.ku.dk/course/N
University	Mammal	ally		students	NMB15001U
	Biology and				
	Research				
Aarhus	Middelfart	conti	Middelfart	All public	
University	porpoise	nousl			
	listening	у			
	station				
Aarhus	ECS Conference	29 th of	Middelfart,	Scientist and	https://www.europeancetaceansoci
University	(Workshops,	April –	Denmark	general public	ety.eu/sites/default/files/ECS full-
	porpoise safari,	3 rd of			program opslag.pdf
	public speaks)	May 2017			
Aarhus	Dissection,	23-	Hirtshals	General public,	Yearly public meeting:
University -	public outreach,	26 th of	Denmark	children and	https://naturmoedet.dk/english-
Maria KH.	roll-up and	May,		municipalities and	information/
Palner	teaching	2018		politicians	
Aarhus	Information	Octob	Denmark	Children and	Porpoise stomach contents:
University -	movies on 1)	er		general public	https://www.youtube.com/watch?v
Maria KH.	Porpoise	2018			=550Ri2vB2Gg
Palner	stomach				
	content and 2)				Sound and noise:
	porpoise sound				https://www.youtube.com/watch?v
	and noise.				=WP_wUU3PmZA&t=150s
Aarhus	Teaching school	2018	Denmark (Køge	Children 10-16	
University -	children		and Holte)	years.	
Maria KH.					
Palner					

2. Please list current information/outreach <u>materials</u> produced in your country, which are of relevance to ASCOBANS' remit and species.

Name of publication (incl. translation into English, where applicable)	Author(s)	Publisher	Year	Links (to download publication)	Can ASCOBANS distribute the link to publication for outreach purposes?
					□ No □ Yes
					□ No □ Yes

3. List other organisations engaged in outreach relevant to ASCOBANS' remit, incl. web links.

Department of Bioscience, Aarhus University, Denmark. http://bios.au.dk/en/

Aventura Charter, Galeasen AVENTURA, Søndergade 21, DK 5500 Middelfart, www.galeasen-aventura.dk

Fjord&Belt, Margrethes Plads 1, 5300 Kerteminde, www.fjordbaelt.dk

The website http://www.hvaler.dk/ run by Carl C. Kinze collects all incidental sightings. They also have a facebook site: https://www.facebook.com/groups/hvaler.dk/

Middelfart Museum, https://www.middelfart-museum.dk/det-gamle-laug

Øresund Aquarium, University of Copenhagen, Strandpromenaden 5, 3000 Helsingør, https://www.oresundsakvariet.ku.dk/english/

The Middelfart harbour porpoise Listening Station:

-	http://bios.au.dk/en/about-bioscience/organisation/marine-mammal-research/projects/porpoise-livestreaming/
	Scala L, Pierpoint C, Teilmann J, Petersen KV, Narramore J, Morris J. 2017. Middelfart listening station: A Static Acoustic Monitoring Solution for Monitoring Harbour Porpoise & Ship Traffic in a Marine Protected Area. ECO Magazine. 34-37.
4.	Please list other initiatives relevant to ASCOBANS' remit that are not included above.
5.	List any gaps in your country's outreach relevant to ASCOBANS' remit. What would be needed to fill these gaps?
6.	List outreach activities foreseen for 2020, in which you would like ASCOBANS to be involved. The next Meeting of the Parties to ASCOBANS is scheduled to be held in 2020.
7.	Resources permitting, are there any materials that you think the ASCOBANS Secretariat should produce? □ No.
	☐ Yes. Please describe what, and why:
8.	Has there been any notable instances / issues in your country related to education and outreach in the reporting period?
uı	nknown
	the Million and the second
Sec	tion VII: Other Matters
	A. Other information or comments important for the Agreement: ¹³

 $^{^{13}}$ Opportunity to include other information relevant to the topics covered in this form but which are missing.

B. Difficulties in implementing the Ag	Agreement
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A major issue in conservation of harbour porpoises remain the missing data on bycatch and ways to mitigate this.

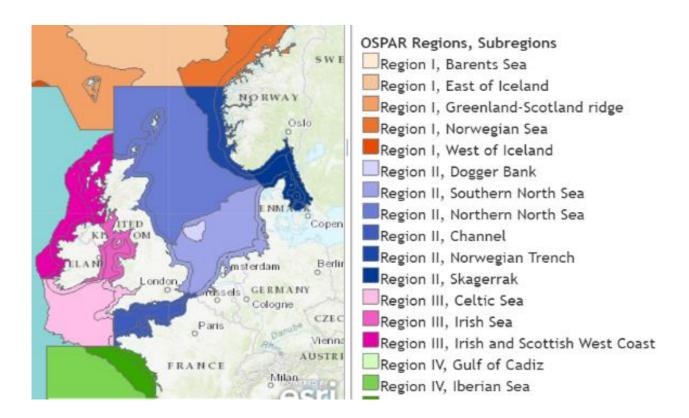
ANNEX A: Overview of the sub-regions as defined by OSPAR and HELCOM.

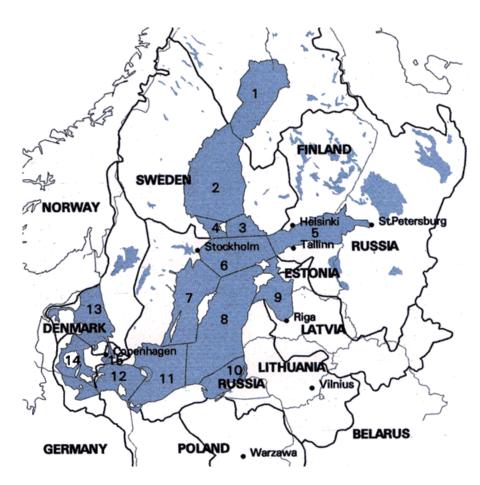
Choose an item.

Drop-down menu sub-regions OSPAR and HELCOM

Choose an item.

OSPAR Region I Arctic Waters	OSPAR Region IV Bay of Biscay	HELCOM cont.
☐ Norwegian Sea	and Iberian Coast	☐ Gulf of Finland
	☐ N. Bay of Biscay	☐ Northern Baltic Proper
OSPAR Region II Greater North Sea	☐ Iberian Sea	☐ Western Gotland Basin
☐ Dogger Bank	☐ Gulf of Cadiz	☐ Eastern Gotland Basin
☐ Southern North Sea		☐ Gulf of Riga
☐ Northern North Sea	OSPAR Region V Wider Atlantic	☐ Gdansk Basin
☐ Channel	☐ subregions?	☐ Bornholm Basin
☐ Norwegian Trench		☐ Arkona Basin
☐ Skagerrak	HELCOM	☐ Kattegat
	☐ Bothnian Bay	☐ Belt Sea
OSPAR Region III Celtic Sea	☐ Bothnian Sea	☐ The Sound
☐ Celtic Sea	☐ Archipelago Sea	
☐ Irish Sea	☐ Åland Sea	
☐ Irish & Scottish W. Coast		





A map of the Baltic Sea drainage basins (catchment area), and marine subdivisions, including basins.

- 1. Bothnian Bay
- 2. Bothnian Sea
- 3. Archipelago Sea
- 4. Åland Sea
- 5. Gulf of Finland
- 6. Northern Baltic Proper
- 7. Western Gotland Basin
- 8. Eastern Gotland Basin
- 9. Gulf of Riga
- 10. Gdansk Basin
- 11. Bornholm Basin
- 12. Arkona Basin
- 13. Kattegat
- 14. Belt Sea
- 15. The Sound

ANNEX B: Species covered by ASCOBANS.

Code	Common name	Scientific name
AWSD	Atlantic white-sided dolphin	Lagenorhynchus acutus
BBW	Blainville's beaked whale	Mesoplodon densirostris
BD	Bottlenose dolphin	Tursiops truncatus
CBW	Cuvier's beaked whale	Ziphius cavirostris
CD	Short-beaked Common Dolphin	Delphinus delphis
FKW	False killer whale	Pseudorca crassidens
GBW	Gervais' beaked whale	Mesoplodon europaeus
HP	Harbour Porpoise	Phocoena phocoena
KW	Killer Whale	Orcinus orca
LFPW	Long-finned pilot whale	Globicephala melas
NBW	Northern bottlenose whale	Hyperoodon ampullatus
PKW	Pygmy killer whale	Feresa attenuata
PSW	Pygmy sperm whale	Kogia breviceps
RD	Risso's dolphin	Grampus griseus
RTD	Rough-toothed dolphin	Steno bredanensis
SBW	Sowerby's beaked whale	Mesoplodon bidens
SD	Striped dolphin	Stenella coeruleoalba
SFPW	Short-finned pilot whale	Globicephala macrorhynchus
TBW	True's beaked whale	Mesoplodon mirus
WBD	White-beaked dolphin	Lagenorhynus albirostris

Drop down menu Small Cetacean Species:

Choose an item.