

Agenda Item 2

Review of New Information on Threats and
Other Issues Relevant to Small Cetaceans

Document NR 10

**2020 National Report
Sweden**

Action Requested

- Take note
- Comment

Submitted by

Sweden



2020 ASCOBANS National Report

1 January – 31 December 2020

As outlined in ASCOBANS [Resolution 8.1 \(Rev.MOP9\)](#) *National Reporting*, this form will cover the year 2020 (Year 1), and the following topics included in the Annex to the Resolution, in addition to the standard Sections I (General Information) and VII (Other Matters):

- Noise (impulsive i.e. piling and continuous/ambient i.e. shipping) (Section II B3)
- Ocean Energy (Section II B4)
- Unexploded Ordnance (Section II C8)
- Marine Spatial Planning (Section II D15)

The national reports submitted will inform discussions at the 26th Meeting of the ASCOBANS Advisory Committee (8-12 November 2021).

- All questions apply to the reporting period of 1 January - 31 December 2020.
- Region in the tables refers to the sub-regions as defined by the HELCOM and OSPAR, and Areas refers to the sub-areas as defined by ICES. An overview and maps of these can be found in Annex A. Species can be chosen from the drop-down list provided, based on ASCOBANS species list, see Annex B.
- Throughout the form, please include relevant web links and add rows where applicable.

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.

For any questions, please do not hesitate to contact the Secretariat:

ascobans.secretariat@ascobans.org.

High-level Summary of Key Messages

In your country, for 2020 (Year 1), what does this report reveal about:

- 1. The most successful aspects of implementation of the Agreement?**
 - Marine protected areas where harbour porpoise is pointed out as a valuable species.
 - Abundans Monitoring network still expanding.
 - Health status monitoring expanding.
- 2. The greatest challenges in implementing the Agreement?**
 - Bycatch mitigation
 - Methodology for monitoring effect of measures
 - Protection of mobile threatened species outside protected areas
- 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:

2. Details of the Report Compiler

Name: Susanne Viker
Function: Analyst
Organization: Swedish Agency for Marine and Water Management
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 Does the Report Compiler act as ASCOBANS National Coordinator (i.e. focal point)?
☐ No ☒ Yes

3. Details of contributor(s)

Topic(s) contributed to:
Name:
Function:
Organization:
Postal Address:
Telephone:
Email:

Copy box if needed.

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

B. Disturbance (incl. potential physical impacts)

3. Noise (impulsive i.e. piling and continuous/ambient i.e. shipping)

AIM: to illustrate progress on understanding, monitoring and mitigating negative effects on small cetaceans from underwater noise during the reporting period.

Relevant Resolutions: 9.2, 9.1, **8.11 (Rev.MOP9)**, 8.9, 8.6, 8.4 (Rev.MOP9), 8.3, 7.1, **6.2**, 6.1

Small cetaceans are especially susceptible to underwater noise due to their high responsiveness to sound and wide hearing range. Good environmental status, as defined by the European Union, suggests that the introduction of energy, including underwater noise, is at levels that do not adversely affect the marine environment. Anthropogenic noise pollution has generally increased in recent times and generates a broad range of frequencies due to a wide variety of human activities. Impulsive and continuous noise present different impacts on small cetaceans, which include communicative masking, behavioural response and physiological injury. Noise in marine environments potentially impedes communication, affects distribution and hence feeding and reproduction of small cetaceans. Studies show that not only cetaceans but also fish and other marine life may be negatively impacted by anthropogenic noise.

Parties to ASCOBANS have agreed on implementation of measures through a number of resolutions that (1) highlight the potential impact that noise pollution may have on small cetaceans in the Agreement Area and (2) commit to reduce the pressure presented by underwater noise. The Agreement Area requires improved monitoring, collation of data, and consideration of appropriate mitigation measures.

To better understand the extent to which noise negatively impacts the health of small cetaceans, and to learn about new work relevant to the topic, countries are requested to provide related information.

Questions:**3.1. To which noise registers/databases has your country contributed to date?**

ICES Impulsive Noise Register (for HELCOM and OSPAR Parties)	National registry	Other
<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Applicable	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Not Applicable Specify (e.g. JNCC noise registry):	<input type="checkbox"/> Yes <input type="checkbox"/> No Specify:

3.2. Any instances/issues in the reporting period including information on planned or completed significant developments/activities, including the details of monitoring in place before, during and after the project:

Development/ Individual Activity of impulsive noise (e.g. construction, seismic, sonar)	Status	Environmental Impact Assessment (EIA)	Strategic Environmental Assessment (SEA)	Information on noise management and monitoring			Region
				Regulations/ guidelines exist	Monitoring conducted	Mitigation in place	
Piledriving	Choose an item.	<input type="checkbox"/> No. <input checked="" type="checkbox"/> Yes. Weblinks:	<input checked="" type="checkbox"/> No. <input type="checkbox"/> Yes. Weblinks:	Yes	Yes	Not Required	Choose an item.
Seismic	Choose an item.	<input type="checkbox"/> No. <input type="checkbox"/> Yes. Weblinks:	<input type="checkbox"/> No. <input type="checkbox"/> Yes. Weblinks:	Yes	Yes	Not Required	Choose an item.
Sonar	Choose an item.	<input type="checkbox"/> No. <input type="checkbox"/> Yes. Weblinks:	<input type="checkbox"/> No. <input type="checkbox"/> Yes. Weblinks:	Yes	No	Not Required	Choose an item.

3.3. Relevant new research/work/collaboration on underwater noise in your country.

(List initiatives/ projects (incl. PhD, MSc); publications (reports, theses, papers in journals, books) from any study; web links to other relevant information)

- The TANGO project (funded by Nordic Council and Swedish Transport Administration): This project is investigating the impact of a change in the location of a major shipping lane in the Kattegat to see what impact this has on the detection of harbour porpoises. Data collection (passive acoustic monitoring) began in 2019 and is ongoing in the "pre" stage, with the change in shipping route scheduled to occur on the 1st of July 2020.
- An additional project (funded by WWF) is investigating the impact of underwater noise on harbour porpoise detections in Swedish waters. It also aims to model the impact of wind farm construction on harbour porpoises (report 2020)

3.4. Report on noise management for cumulative impacts, including relevant regulations and guidelines, seismic shot point densities and level of impact deemed acceptable.

No regulations presently, but guidelines are being developed within HELCOM/OSPAR. Guidelines for piledriving in Sweden exists. Other activities have restrictions set case-by-case, taking into account effects on wildlife to some degree. Limited ad-hoc monitoring exists during the activity (report 2020)

3.5. Is the perceived level of pressure from underwater noise in your country increasing, decreasing, staying the same or unknown?

To be done per species basis where applicable.

Species	Increasing	Decreasing	Staying the same	Unknown	Nature of the evidence
HP Harbour porpoise	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Interest in offshore construction is increasing, shipping is increasing, human population size (recreational activities) increasing

Choose an item.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Choose an item.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

☐ **Not applicable.** Comments:

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

B. Disturbance (incl. potential physical impacts)

4. Ocean Energy

AIM: to understand the extent and development of current and planned ocean energy projects, and progress in monitoring and mitigation of their negative effects on small cetaceans during the reporting period.

Relevant Resolutions: 8.11 (Rev.MOP9), 8.9, **8.6**, 8.3, 6.2

Renewable energy is a necessary component of the efforts to supply the energy needs of human populations while combatting climate change. Efforts to harness renewable energy sources, however, should be conducted in a way that does not have a harmful impact on biological diversity and the marine environment. There are potential adverse effects of ocean energy on small cetaceans from such energy projects. In regard to small cetaceans, this can include potential lethal interactions or injury, negative behavioural impacts from displacement and changes in fecundity, calf survival and juvenile and adult mortality. There remains uncertainty regarding quantifying the (magnitude of the) pressure from ocean energy production on small cetaceans.

Parties to ASCOBANS have agreed to introduce precautionary measures and procedures for activities surrounding the development of renewable energy in marine environments in order to minimise and mitigate possible effects on small cetaceans, by following best practices. Parties have committed to investigating such pressures and robustly monitoring and mitigating them through environmental impact assessments. Addressing all aspects relevant to the conservation of protected species in regard to ocean energy and collaboration with other organizations working on or potentially interested in the issue is to the benefit of small cetaceans in the Agreement Area.

It is of particular interest to ASCOBANS to understand current and ongoing renewable energy projects in the Agreement Area, mitigation measures and procedures in use and other work relevant to the topic. Countries are requested to provide information relevant to their activities.

Questions:**4.1. Please enter wind energy farm data into the table below.**

Name of wind farm	Operational date (or foreseen grid connection date)	Area	Output (megawatts per turbine)	Number of turbines	How were the individual wind turbines installed in the seabed?	Was scour protection used?	Noise mitigation during construction used? (multiple ticks possible)	If the wind farm is floating, how was it anchored?	Other mitigation used in pre-/post-construction	Additional information
	dd/mm/yy	Choose an item.			Choose an item.	Choose an item.	<input type="checkbox"/> Single bubble curtains <input type="checkbox"/> Double bubble curtains <input type="checkbox"/> Acoustic deterrent devices <input type="checkbox"/> Time/area closures <input type="checkbox"/> Other, please specify:			
	dd/mm/yy	Choose an item.			Choose an item.	Choose an item.	<input type="checkbox"/> Single bubble curtains <input type="checkbox"/> Double bubble curtains <input type="checkbox"/> Acoustic deterrent devices <input type="checkbox"/> Time/area closures <input type="checkbox"/> Other, please specify:			

4.2. Please enter wave power installation data into the table below.

Name of installation	Operational date (or foreseen grid connection date)	Area	Output (megawatts per turbine)	Number of turbines	How is the installation anchored?	Was scour protection used?	Mitigation used in pre-/during/post-construction	Additional information
	dd/mm/yy	Choose an item.				Choose an item.		
	dd/mm/yy	Choose an item.				Choose an item.		

4.3. Please enter tidal energy installation data into the table below.

Name of installation	Operational date (or foreseen grid connection date)	Area	Output (megawatts per turbine)	Number of turbines	Type	Collision mitigation	Other mitigation used in pre-/during/post-construction	Additional information
	dd/mm/yy	Choose an item.			Choose an item.	Choose an item.		
	dd/mm/yy	Choose an item.			Choose an item.	Choose an item.		

4.4. Please enter tidal lagoon/barrage installation data into the table below.

Name of installation	Operational date (or foreseen grid connection date)	Area	Output (megawatts per turbine)	Number of turbines	Type	Collision mitigation	Other mitigation used in pre-/during/post-construction	Additional information
	dd/mm/yy	Choose an item.			Choose an item.	Choose an item.		
	dd/mm/yy	Choose an item.			Choose an item.	Choose an item.		

4.5. Has there been any other instances/issues related to ocean energy during the reporting period in your country?☒ **No.**☐ **Yes.**

Please provide details:

4.6. How is the pressure managed, incl. relevant regulations / guidelines and the year of implementation (current and planned)?**4.7. Relevant new research/work/collaboration on ocean energy in your country.**

(List initiatives/ projects (incl. PhD, MSc); publications (reports, theses, papers in journals, books) from any study; web links to other relevant information)

4.8. Mark the perceived level of pressure from ocean energy in your country to the table below.

For example, active construction of new developments could increase the pressure, while decommissioning or addition of mitigation measures to pre-existing projects could decrease the pressure.

Energy type	Status in 2020 relative to previous years	Nature of the evidence
Wind energy	Choose an item.	
Wave power	Choose an item.	
Tidal energy	Choose an item.	
Tidal lagoon/barrage	Choose an item.	

Comments:

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

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

8. Unexploded Ordnance

AIM: to provide information on the mitigation, management and potential negative impacts of unexploded ordnance on small cetaceans during the reporting period.
Relevant Resolutions: 8.11 (Rev.MOP9), 8.9, 8.8, 8.3

Unexploded chemical and conventional munitions present a threat to small cetaceans. Hazards exist from unexploded munitions, which release chronic contaminants, and upon detonation, which is physically hazardous from extreme underwater noise and a sudden release of toxic substances. Unexploded ordnance is a notable threat in many areas, such as the Baltic Sea, where the quantity is unknown, though estimates are high. Information on disposal, state of corrosion and quantities of dumped munition is limited, as are meaningful data on the measured environmental impacts. The significance of this pressure's impact on small cetaceans requires further quantification. However, it is clear that mitigation measures are necessary to support alternatives to detonations, and when no alternative is feasible, to reduce negative impacts on small cetaceans.

In the ASCOBANS Area, millions of tons of unexploded ordnance are present in the marine environment and thousands of sea users, such as fishermen, encounter such munitions every year. Parties have agreed on resolutions to support (1) research investigating the pressure on marine animals and habitat and (2) mitigation measures regarding effects of disintegrating submerged munitions on the marine environment. Parties are to strive towards providing relevant information to required bodies and supporting efforts to address the negative implications from this pressure in other regional and international organizations and waters.

Questions:

8.1. To which registers/databases covering conventional and chemical munitions has your country contributed to date?

<input type="checkbox"/> OSPAR	<input type="checkbox"/> None	<input type="checkbox"/> Unknown
<input type="checkbox"/> HELCOM	<input type="checkbox"/> Other, please state:	

8.2. How many UXOs were detonated / released at sea?

- ☐ **1-9**
☐ **10-49**
☐ **50-99**
☐ **100+**

Provide link to database if available:

8.3. Have there been any other instances/issues related to the issue of unexploded ordnance during the reporting period in your country?

- ☐ **No.**
☐ **Yes.**

Please provide details:

8.4. How is the issue of unexploded ordnances being managed?

(incl. mitigation measures, relevant regulations/guidelines, year of implementation; may include planned management)

8.5. Relevant new research/work/collaboration on the issue of unexploded ordnance in your country.

(List initiatives/ projects (incl. PhD, MSc); publications (reports, theses, papers in journals, books) from any study; web links to other relevant information)

8.6. Is the perceived level of pressure from unexploded ordnance in your country:

<input type="checkbox"/> Increasing	<input type="checkbox"/> Decreasing	<input type="checkbox"/> Staying the same	<input type="checkbox"/> Unknown
Please provide the nature of the evidence where applicable:			

☐ Not applicable. Comments:

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

D. Management of Cumulative Impacts

15. Marine Spatial Planning

AIM: to provide information on existing and proposed marine spatial plans and processes during the reporting period that may impact small cetaceans.
Relevant Resolutions 9.1, 8.9, 8.6, 8.3

A growing demand for use of maritime space increases pressure on ecosystems and marine resources. Marine ecosystems with good environmental status provide notable benefits to a number of economic outputs. Implementation of an integrated spatial planning and management approach can better mitigate negative impacts from maritime activities on marine environments. Spatial planning can support sustainable marine development through coordinated, coherent and transparent decision-making and the encouragement and identification of multi-purpose uses in relevant projects. Marine spatial planning is essential when selecting the most appropriate siting for marine-based projects. Particular attention should be given to critical habitat and relevant species, such as small cetaceans, in order to achieve good environmental status.

ASCOBANS Parties have agreed on a number of resolutions that support the integration of marine spatial planning into development processes. Small cetaceans benefit from good marine spatial planning and this is highlighted in the resolutions. Countries are requested to provide information relevant to their country in this regard.

Questions:

15.1. Please provide information in regard to current and foreseen marine spatial planning.

National plans(s) and processes in force:	No
National plan(s) and processes in preparation:	Yes, in preparation by Government
Further information, including links to online resources and maps where available:	Marine Spatial Planning - Swedish Agency for Marine and Water Management (havochvatten.se)
Transboundary plans(s) and processes in force:	No, but Pan Baltic MSP cooperation
Transboundary plan(s) and processes in preparation:	
Further information, including links to online resources and maps where available:	

15.2. Have there been any other instances/issues in your country regarding marine spatial planning during the reporting period?

☒ No.

☐ Yes.

Please provide details:

15.3. Relevant new research/work/collaboration on marine spatial planning in your country.

Swedish cumulative impact assessment method Symphony:
<https://www.havochvatten.se/en/swam/eu-international/marine-spatial-planning/symphony---a-tool-for-ecosystem-based-marine-spatial-planning.html>
 - EU-project MSP-project: <http://www.panbalticscope.eu/> eg project on marine green infrastructure: <http://www.panbalticscope.eu/wp-content/uploads/2019/12/GreenInfrastructure-brochure-print-FINAL.pdf>

(2019)

Section VII: Other Matters

A. Other information or comments important for the Agreement:¹

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B. Difficulties in implementing the Agreement:

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C. Burning issues:

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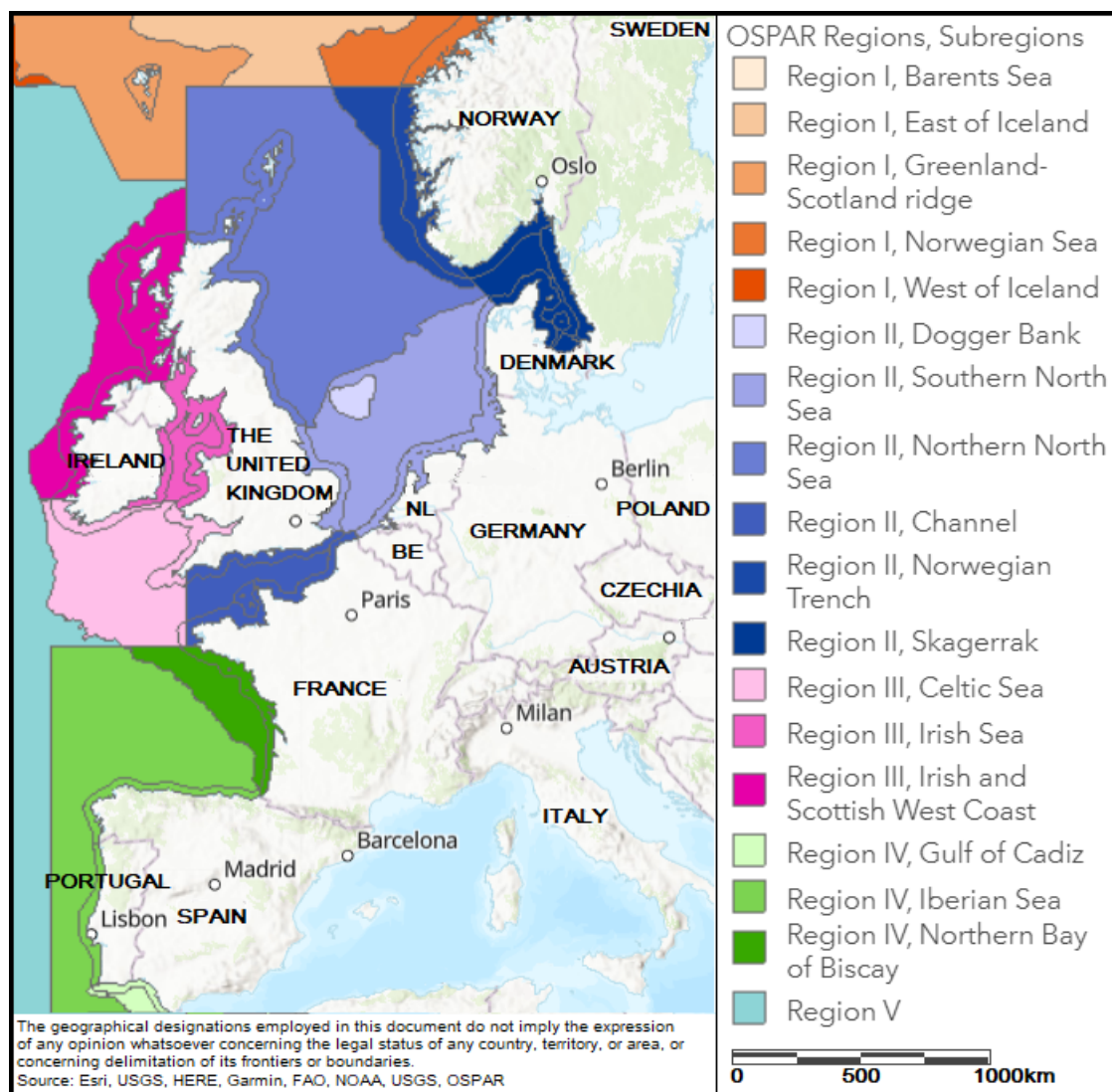
¹ Opportunity to include other information relevant to the topics covered in this form but which are missing.

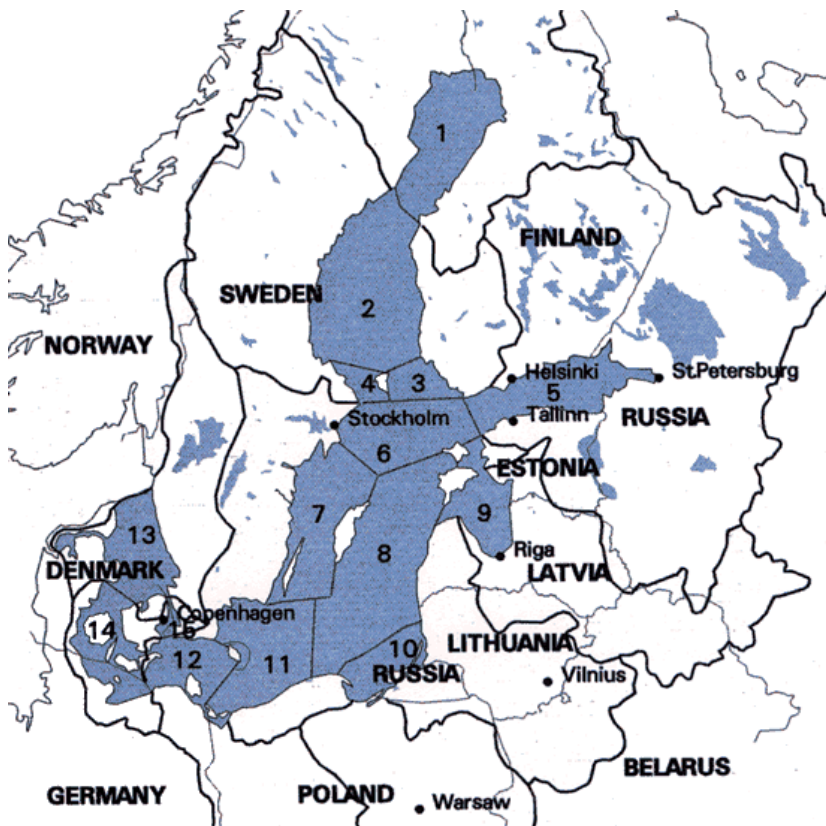
Annex A: Overview of the sub-regions as defined by OSPAR and HELCOM, and areas as defined by ICES.

Drop-down menu sub-regions OSPAR and HELCOM

Choose an item.

OSPAR Region I Arctic Waters <input type="checkbox"/> Norwegian Sea OSPAR Region II Greater North Sea <input type="checkbox"/> Dogger Bank <input type="checkbox"/> Southern North Sea <input type="checkbox"/> Northern North Sea <input type="checkbox"/> Channel <input type="checkbox"/> Norwegian Trench <input type="checkbox"/> Skagerrak OSPAR Region III Celtic Sea <input type="checkbox"/> Celtic Sea <input type="checkbox"/> Irish Sea <input type="checkbox"/> Irish & Scottish W. Coast	OSPAR Region IV Bay of Biscay and Iberian Coast <input type="checkbox"/> N. Bay of Biscay <input type="checkbox"/> Iberian Sea <input type="checkbox"/> Gulf of Cadiz OSPAR Region V Wider Atlantic <input type="checkbox"/> HELCOM <input type="checkbox"/> Bothnian Bay <input type="checkbox"/> Bothnian Sea <input type="checkbox"/> Archipelago Sea <input type="checkbox"/> Åland Sea	HELCOM cont. <input type="checkbox"/> Gulf of Finland <input type="checkbox"/> Northern Baltic Proper <input type="checkbox"/> Western Gotland Basin <input type="checkbox"/> Eastern Gotland Basin <input type="checkbox"/> Gulf of Riga <input type="checkbox"/> Gdansk Basin <input type="checkbox"/> Bornholm Basin <input type="checkbox"/> Arkona Basin <input type="checkbox"/> Kattegat <input type="checkbox"/> Belt Sea <input type="checkbox"/> The Sound
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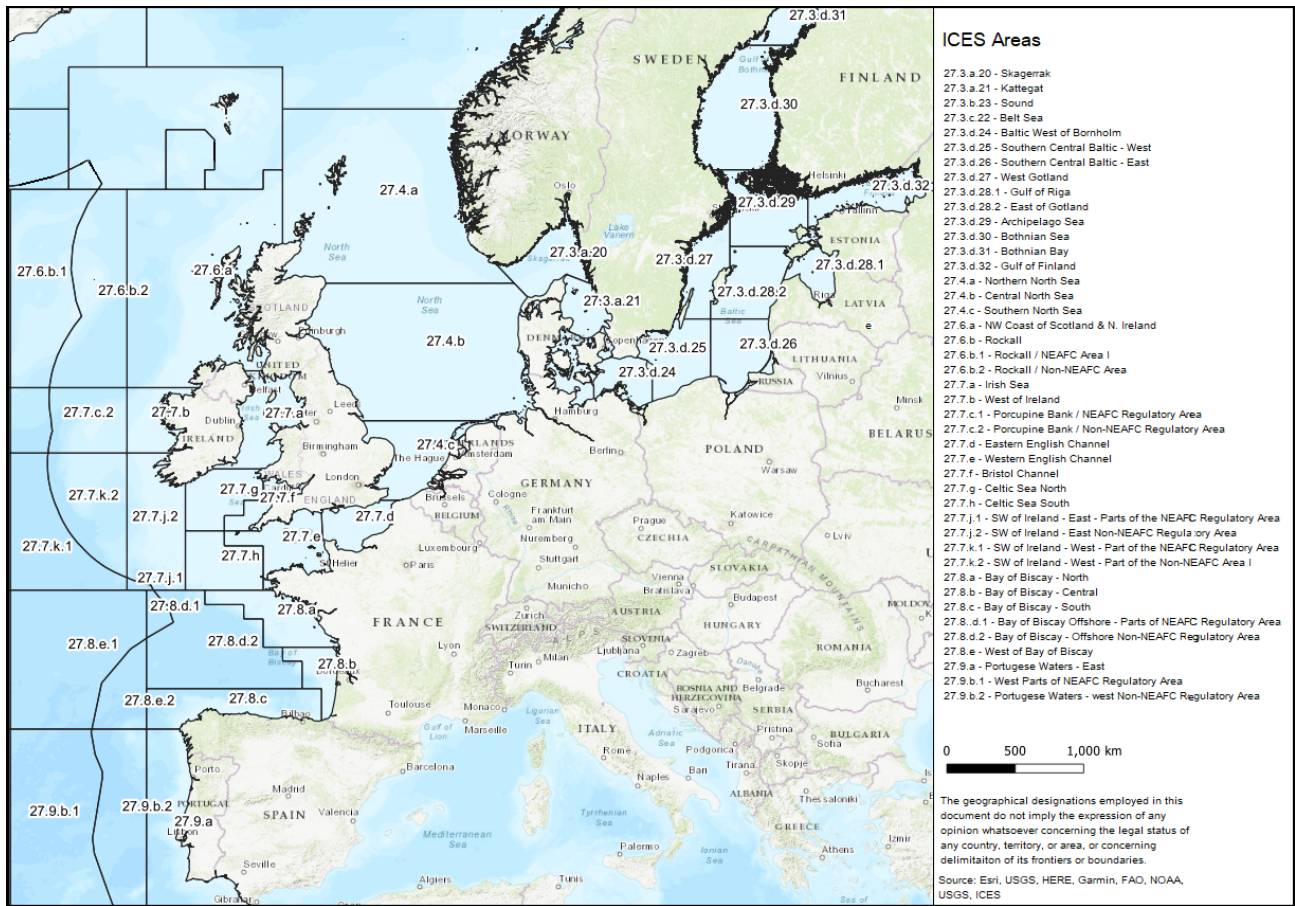
A map of the Baltic Sea drainage basins (catchment area), and marine subdivisions, including basins.

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

Drop-down menu of ICES Areas

Choose an item.

Area	Area Description	Area	Area Description
27.3	Skagerrak, Kattegat, Sound, Belt and Baltic Seas	27.7.b	West of Ireland
27.3.a	Skagerrak and Kattegat	27.7.c	Porcupine Bank
27.3.a.20	Skagerrak	27.7.c.1	Porcupine Bank / NEAFC Reg. Area
27.3.a.21	Kattegat	27.7.c.2	Porcupine Bank / Non-NEAFC Reg. Area
27.3.b.c	Sound and Belt Sea	27.7.d	Eastern English Channel
27.3.b.23	Sound	27.7.e	Western English Channel
27.3.c.22	Belt Sea	27.7.f	Bristol Channel
27.3.d	Baltic Sea	27.7.g	Celtic North Sea
27.3.d.24	Baltic West of Bornholm	27.7.h	Celtic Sea South
27.3.d.25	Southern Central Baltic – West	27.7.j	SW of Ireland – East
27.3.d.26	Southern Central Baltic – East	27.7.j.1	SW of Ireland – East – Parts of the NEAFC Reg. Area
27.3.d.27	West of Gotland	27.7.j.2	SW of Ireland – East – Non-NEAFC Reg. Area
27.3.d.28.1	Gulf of Riga	27.7.k	SW of Ireland - West
27.3.d.28.2	East of Gotland	27.7.k.1	SW of Ireland – West – Part of the NEAFC Reg. Area
27.3.d.29	Archipelago Sea	27.7.k.2	SW of Ireland – West – Part of the Non-NEAFC Area I
27.3.d.30	Bothnian Sea	27.8	Bay of Biscay
27.3.d.31	Bothnian Bay	27.8.a	Bay of Biscay North
27.3.d.32	Bay of Finland	27.8.b	Bay of Biscay Central
27.4	North Sea	27.8.c	Bay of Biscay South
27.4.a	Northern North Sea	27.8.d	Bay of Biscay Offshore
27.4.b	Central North Sea	27.8.d.1	Bay of Biscay Offshore – Part of the NEAFC Reg. Area
27.4.c	Southern North Sea	27.8.d.2	Bay of Biscay Offshore – Non-NEAFC Reg. Area
27.6	Rockall, NW Coast of Scotland and N. Ireland	27.8.e	Wet of Bay of Biscay
27.6.a	NW Coast of Scotland and N. Ireland	27.9	Portuguese Waters
27.6.b	Rockall	27.9.a	Portuguese Waters – East
27.6.b.1	Rockall / NEAFC Reg. Area I	27.9.b	Portuguese Water - West
27.6.b.2	Rockall / Non-NEAFC Reg. Area	27.9.b.1	Portuguese waters – West Part of the NEAFC Reg. Area
27.7	Irish Sea, West of Ireland, Porcupine Bank, Eastern and Western English Channel, Bristol Channel, Celtic Sea North and South, and Southwest of Ireland – East and West	27.9.b.2	Portuguese waters – Non-NEAFC Reg. Area
27.7.a	Irish Sea		



Annex B: Species covered by ASCOBANS

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

Drop down menu small cetacean species:

Choose an item.