Implementation plans for regional actions in the RAP Noise

Lead country	Germany to le	ad						
	(Estonia and Sweden to contribute to parts of the action)							
	Germany responsible of implementing Task 1							
Date	11 March 202	4						
Contact person								
Affiliation								
E-mail								
Code of action	1							
Action	Improve the quality of data submitted to the HELCOM impulsive noise registry by updating and improving the common HELCOM guidelines for monitoring impulsive noise events in the Baltic Sea.							
Further	Based on the i	reporting to the regi	stry already av	ailable. Main a	im of action is			
specification	to increase the	e completeness, spa	tio-temporal re	esolution and o	juality of			
	submissions to	o the registry.						
Main outcome	Monitoring gu	idelines for impulsiv	e noise events					
Sequential task description	Responsible	Contribution from	Begin date	Due date	Milestone			
1) Revise guidance for reporting pile driving noise	EG-Noise	Lead country	2024	End of 2024	Revised guidance available			
2) Revise guidance for reporting air gun noise	EG-Noise	Lead country	2024	[End of 2024]	Revised guidance available			
3) Adapt guidelines to include other hydroacoustic surveys	EG-Noise	Lead country	2024	[End of 2024]	Topic included in the guidance			
[Discuss and agree with navies on procedures for recording explosions]			To be discussed by the end of 2024					
[Initiate discussion with NATO and/or CPs regarding reporting of sonar]			To be discussed by the end of 2024					

Lead country	Lead needed. CCB to take the lead of Task 1						
	(Poland to contribute with overlaying data on noise sensitive species and noise input on maps)						
Date	11 March 2024						
Contact person							
Affiliation							
E-mail							
Code of action	2						
Action	Improve assessment of impact of impulsive noise by identifying important habitats and biologically sensitive areas and periods in the Baltic Sea region, where the introduction of high-energy impulsive noise is likely to have negative impact.						
Further specification	Based on HELCON 2019), which are t criteria and in coo as EG-MAMA)	1 identified noise se to be delineated bas peration with other	nsitive marine ed on biologio HELCOM wor	e animal speci cal data and s king and exp	es (HELCOM cience-based ert groups (such		
Main outcome	Approved map on	noise sensitive spe	cies in the Bal	tic Sea			
Sequential task description	Responsible	Contribution from	Begin date	Due date	Milestone		
1) Joint workshop (on impulsive and continuous noise related to action 2, 14 and 24) with EG- MAMA, WG BioDiv and WG- FISH (in person, jointly)	Lead country/host Secretariat	EG-Noise EG MaMa WG BioDiv WG Fish	Workshop during second half of 2024				
2) Identify and fund dedicated projects	CPs	Lead country EG-Noise SAMBAH 2 project					

Projects contributing: HORIZON project, where UK is involved, AquaPLAN ("Aquatic Pollution from Light and Anthropogenic Noise: management of impacts on biodiversity"), to begin in January 2024. It will focus on artificial light and noise as well as on underwater noise in relation to further development of the D11 indicator in the EU MSFD.

Lead country	Germany (Co-	-Lead) and Denma	rk (Co-Lead)					
Data	11 March 2024							
Contact nerson	11 Multil 2024							
Affiliation		Carina Juretzek (DE) and Siri Lander Eimegaard (DK)						
Affiliation	BSH and MIIV							
E-mail	<u>Carina.Juretza</u>	<u>ek@bsh.de</u> and <u>sil</u>	<u>ae@mim.dk</u>					
Code of action	3							
Action	Establish com	imon methodolog	y for the asse	essment of ne	egative impact from			
	impulsive noi	se						
Further	Development	and description c	of best praction	ce for assessi	ng potential injury			
specification	and behaviou	iral disturbance (h	abitat loss) ir	n relation to f	or example			
	environmenta	al impact assessme	ents (EIAs) ar	nd strategic ir	npact assessments			
	(SIAs).							
Main outcome	Best practice	document						
Sequential task	Responsible	Contribution	Begin date	Due date	Milestone			
description	Responsible	from	Degin date	Due date	Milestone			
1.0	DK, DE	DE, DK	11/2023	09/2024	Written summary			
Collection/summary					of existing BEP's in			
of existing best					DK, DE finalized			
practices								
2.0 Sharing of 1.0	DK, DE	All CP's (written	09/2024	11/2024	Written summary			
among HELCOM		input expected)			of existing BEP's			
CP's and collection					and contribution			
					finalized			
3.0 Review of		All CP's (written	11/2024	03/2025	Evaluation of BEP			
experience with		input expected)	11,2024	03/2023	application			
BEP's and scientific		par enpercea,			performed			
developments								
4.0 Development of	DK, DE	DK, DE	03/2025	09/2025	Common			
common					methodology			
methodology					recommendations			
recommendations					proposed			
4.0 Review and	DK, DE	All CP's (written	09/2025	11/2025	Common			
finalization of		input expected)			methodology			
common					recommendations			
methodology					developed			
recommendations					-			

Lead country								
Date	11 March 2024							
Contact person								
Affiliation								
E-mail								
Code of action	4							
Action	Further develo	Further develop the HELCOM impulsive noise pre-core indicator towards an						
	operational co	operational core indicator						
Further	This includes c	This includes development of methods to assess environmental status based on the						
specification	indicator as we	ell as definition of thre	esholds and targ	gets.				
Main outcome	HELCOM Core	indicator on impulsive	e underwater no	oise				
Convential tools								
description	Responsible	Contribution from	Begin date	Due date	Milestone			
description 1) Identify gaps preventing acceptance as	Responsible Secretariat; Sea-Based Pressures	Contribution from	Begin date 2023	Due date End of 2023	Milestone			
description 1) Identify gaps preventing acceptance as CORE indicator	Responsible Secretariat; Sea-Based Pressures	Contribution from	Begin date 2023	Due date End of 2023	Milestone			
description 1) Identify gaps preventing acceptance as CORE indicator 2) Evaluate HOLAS3 assessment	Responsible Secretariat; Sea-Based Pressures Lead country	Contribution from EG Noise; Input from EU TG Noise and OSPAR ICG Noise needed	Begin date 2023 Q2 of 2024	Due date End of 2023 End of 2025	Milestone			

Lead country	Lead needed.	Lead needed.							
	Sweden to support work on other relevant species groups different from marine								
	mammals.								
	Estonia to sup	port.							
Date									
Contact person									
Affiliation									
E-mail									
Code of action	5								
Action	Develop and implement one or more HELCOM impact indicators for impulsive								
	noise	noise							
Further	Based on the current pressure indicator, but with the inclusion of information								
specification	about distribu	about distribution of sensitive species and habitats. This work is a continuation							
	of the work de	of the work described in the noise sensitivity report (HELCOM 2019) and should							
	preferably be	along the same lines	as the impact	indicator curre	ently under				
	development	in OSPAR and in acco	ordance with tl	he recommend	ations by EU				
	TG-NOISE.								
Main outcome	HELCOM (pre-	core) impact indicat	or on impulsiv	e underwater r	noise.				
Sequential task	Responsible	Contribution from	Begin date	Due date	Milestone				
description	Lood	FC Naisas	2025						
1) Evaluate	Lead	EG NOISE;	2025						
indicator		ICG Noise and FU							
indicator		TG Noise							
2) Adapt OSPAR	Lead	EG Noise;	In alignment	In alignment					
indicator, paying		Input from OSPAR	with HOLAS	with HOLAS					
attention to TG-		ICG Noise and EU	4	4					
Noise guidance		TG Noise							
3) Suggest	Lead	EG Noise	In alignment	In alignment					
indicator for one		WG Fish	with HOLAS	with HOLAS					
or more fish			4	4					
species			1						

Links: the action depends on action 1, 2 and 4 (Operational pressure indicator + habitats)

Projects contributing:

- <u>JPI Project SONORA</u> Filling the gap: Thresholds assessment and impact beyond acoustic pressure level linked to emerging blue-growth activities, coordinated by Jaime Ramis Soriano, University of Alicante (Spain).
- Swedish work is ongoing related to risk levels and risk distances for fish, which could be used in the development of this indicator.

11 March 2024 Carina Juretzek BSH Carina.Juretzek@bsh.de 6 Identify Best Available Technologies (BAT) related to the abatement of impulsive noise. Among these collect existing national regulations and guidelines aimed to reduce the impact of underwater impulsive noise on the ecosystems of the Baltic Sea and related observations in order to form relevant HELCOM guidelines. Including noise abatement systems and alternative installation methods for offshore wind farms, spatio-temporal exclusion of UXO clearing and alternatives to detonation, commercial sonars and test/training/exercise of military sonars, alternative seismic sources, and sub-bottom profilers. HELCOM BAT Guidelines K Responsible Contribution from Begin date Due date Milestone
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Lead country	Germany							
Date	11 March 2024							
Contact person	Carina Juretzel	Carina Juretzek						
Affiliation	BSH							
E-mail	Carina.Juretzel	k@bsh.de						
Code of action	7	7						
Action	Increase the us (BAT) in mitiga best practice g	se of Best Environmer tion of impact from ir uidelines in methods	ital Practice (BE npulsive noise b for mitigation o	P) and Best Avail y establishing co f impact from im	able Technology mmon HELCOM pulsive noise			
Further specification	Implementatio	on of the knowledge g	ained from actio	on 6.				
Main outcome								
Sequential task description	Responsible	Contribution from	Begin date	Due date	Milestone			

Please note that due to its linkage with action 6, the implementation plan of this action will be developed at a later stage.

Lead country	Lead needed.							
	Sweden co-lea	Sweden co-leading, Germany and Denmark consider co-leading. Finland						
	considers co-le	considers co-leading if the Aurora Interreg project is granted						
Date	11 March 2024							
Contact person								
Affiliation								
E-mail								
Code of action	8	8						
Action	Improve regio	nal and cross-borde	r coordination	of the spatio-te	mporal			
	planning and p	permitting by establi	ishing a commo	on reporting sys	tem for			
	planned activi	ties likely to produce	e impulsive noi	se.				
Further	This constitute	es an extension of th	e impulsive no	ise registry to i	nclude future			
specification	activities that	are currently only re	ecorded after th	ney occurred.				
Main outcome	Regional plan	ning tool for permitt	ing and reporti	ng planned acti	vities			
Sequential task	Posponsible	Contribution from	Regin data	Due date	Milostopo			
description	Responsible	Contribution from	Begin date	Due date	winestone			
1) Organize a	Lead(s):	EG Noise	First half of	Second half				
workshop to	Sweden	HELCOM-VASAB	2024	of 2024				
plan a pilot	considers co-	MSP WG						
project	leading.	EU TG Noise						
	Germany and							
	leading.							
2) Fund and	Lead		TBD based					
conduct pilot	Secretariat		on the					
project for			outcome of					
example in the			the					
Arkona Basin			workshop					
towards a								
planning tool for								
the regional								
level			TPD based					
3) Establish a			TBD based					
nlanning tool			outcome of					
Planning tool			the possible					
			nroject					

Links: Depends on action 5 (impact indicator)

	1							
Lead country	Finland to contribute							
Date	11 March 2024							
Contact person								
Affiliation								
E-mail								
Code of action	9							
Action	Improve protection of areas, which have already been defined as important							
	or critical habitat for noise sensitive species, by obligating the adoption of							
	adequate operational and technical noise mitigation measures.							
Further	HELCOM (2019) already identified a number of important areas which are							
specification	important for	important for noise sensitive species (such as the core habitat of the critically						
	endangered h	arbour porpoise pop	oulation of the	Baltic proper	or spawning			
	areas of fishes	s using sound for cor	nmunication).					
	If the area is a	Iready protected as	an MPA, this o	an be include	d as part of the			
	management.	This does not imply	that measure	s (such as thos	se identified in			
	action 6) are n	not required in other	areas not spe	cifically prote	cted.			
	Depends on a	ction 6 (BAT) and 10) (common cri	teria)				
Main outcome	HELCOM Reco	mmendations for in	dividual types	of activities				
Sequential task	Responsible	Contribution from	Regin date	Due date	Milestone			
description	Кезропзіліе	contribution from	Deginaate	Buc date	Milestone			
1) Identify and	EG Noise	EG MaMa	Following					
agree on	WG Sea-	EG MPA	completion					
appropriate	based	WG BIODIV	of Action 6					
miligation measures for	pressures							
different activities								
2) Prepare and	Leads tbd	EG-Noise						
submit HELCOM	upon	Secretariat						
Recommendations	completion							
for individual types	of task 1)							
of activities								

Projects and available documentation contributing:

- Comparison between Danish and German guidelines for mitigation of pile driving noise. New project comparing the two sets of guidelines directly through modelling of realistic scenarios for pile driving. Funded by the Danish Energy Agency. Conducted by Aarhus University and NIRAS A/S. To be reported in early 2024. The final report to be ready shortly.
- Input from OSPAR work on the matter expected.
- <u>Best Available Technology (BAT) and Best Environmental Practice (BEP) for Mitigating Three Noise</u> <u>Sources: Shipping, Seismic Airgun Surveys, and Pile Driving, CMS Technical Series Publication No. 46,</u> <u>2023</u>

Lead country	Germany (Co-L	Germany (Co-Lead) and Denmark (Co-Lead)						
Date	11 March 2024							
Contact person	Carina Juretzel	k (DE) and Siri Lander	Elmegaard (DK)					
Affiliation	BSH and MIM							
E-mail	Carina.Juretzel	<u>k@bsh.de</u> and <u>silae@</u>	<u>mim.dk</u>					
Code of action	10	10						
Action	Reduce injury common HELC limits.	Reduce injury and behavioural disturbance from impulsive noise by establishing common HELCOM criteria for injury and disturbance, as well as common exposure limits.						
Further specification	These criteria a established un individual activ	and exposure limits an der point 4, but are o vities generating impu	re not identical perational crite Ilsive noise.	to the GES-thresh ria that can be ap	nolds to be oplied to			
Main outcome								
Sequential task description	Responsible	Contribution from	Begin date	Due date	Milestone			

Please note that due to its linkage with action 3, the implementation plan of this action will be developed at a later stage.

Lead country	The Secretariat to lead in cooperation with joint contact group of HELCOM and							
	OSPAR representatives							
Date	11 March 202	11 March 2024						
Contact person								
Affiliation								
E-mail								
Code of action	11	11						
Action	Improving acc	essibility and sharing	g of monitoring	g data by oper	ationalisation of			
	the common o	the common database for monitoring data on continuous underwater noise						
Further specification	As decided by	As decided by HOD 55-2019 and implemented by database hosted by ICES.						
Main outcome	Improved regu	ular uploading of nat	ional monitori	ing data to dat	abase			
Sequential task description	Responsible	Contribution from	Begin date	Due date	Milestone			
1) Review experience to date on the database on continuous noise	Secretariat	EG Noise OSPAR ICG Noise	October 2024 (joint HELCOM EG Noise /OSPAR ICG Noise session)	Meeting held	Regular meetings with OSPAR on the topic			

Projects contributing: Poland: "Concept of building metrological infrastructure in the area of underwater acoustics at GUM" project which aims to create a concept and maybe in the future get funds for this kind of infrastructure. This is national project and a website in English can be found. Some information in Polish may also be found here: <u>https://ug.edu.pl/strona/120658/polska-metrologia</u>.

Lead country	Lead needed					
Date	11 March 2024					
Contact person						
Affiliation						
E-mail						
Code of action	12					
Action	Development	of common guideling	es for reportin	g of continu	ous noise levels	
	in the Baltic Se	ea.		0		
Further	Linked to and in progress in connection to establishment of common					
specification	database hosted by ICES.					
Main outcome	Common guid	elines for reporting of	of continuous	noise levels	in the Baltic Sea	
Sequential task					nati i	
description	Responsible	Contribution from	Begin date	Due date	Nillestone	
1) Review experience from HOLAS 3 (lack of spatial coverage in certain areas) and elsewhere (incl. OSPAR)	Lead	EG Noise	Q3 2024	Q4 2024	Review conducted	
2) Contribute to evaluation by TG- Noise			Q3 2024	Q4 2024	EG Noise members are part of the dedicated subgroup on the topic within TG Noise	
3) Identify funding opportunities (consider document 5-4 to IC SEA-BASED PRESSURES 2- 2023)	Lead	Secretariat CPs	Q3 2024	Q4 2024		
4) Conduct intercalibration events (consider document 5-4 to IC SEA-BASED PRESSURES 2- 2023)			2025	2025		
4) Update monitoring guidelines and agree on guidelines for reporting of continuous noise	EG Noise	Lead Secretariat EU TG Noise	To be made available for use at HOLAS 4			

Lead country	Lead needed				
Date	11 March 2024	1			
Contact person					
Affiliation					
E-mail					
Code of action	13				
Action	Increase region	nal coordination an	d managen	nent of continu	uous noise
	sources by est	ablishing a commor	n framewor	k for modellin	g past,
	, present and fu	ture noise levels in	the Baltic.		
Further specification	Continuation o	of the Soundscape p	lanning too	ol developed u	nder the
	BIAS project, a	s decided by HOD 5	55-2019 ¹ . Si	uch modelling	is based on
	AIS and other	relevant informatio	n about sou	urces, such as	source levels
	and frequency	spectra. Includes d	eveloping r	methods to inc	lude noise
	from leisure bo	oats without AIS tra	insmitters a	as well as natu	ral ambient
	noise.				
Main outcome	Common appr	oach for modelling	past, prese	ent and future	noise levels
	in the Baltic Se	a for the developm	ent of region	onal assessme	nts
Sequential task	Responsible	Contribution	Begin	Due date	Milestone
description		from	date		
1) Review experience	Lead	EG NOISE;			Revision is
elsewhere (incl.		FU TG Noise and			conducted
JOMOPANS)		OSPAR ICG Noise			
2) Contribute to	Lead	CPs			EG Noise
evaluation by TG-Noise					members
					are part of
					the
					dedicated
					on the tonic
					within TG
					Noise
3) Provide a description of	EG-Noise	Lead	Aligned		
a common approach for			with		
modelling past, present			HOLAS 4		
and future noise levels in			timeline		
the Baitic Sea enabling					
regional assessments					
4) A common approach	Sea-based	EG Noise	Aligned		
for modelling past,	pressures WG		with		
present and future noise			HOLAS 4		
levels in the Baltic Sea			timeline		
enabling the					
development of regional					
assessments is developed					

¹ Please note that the planning tool was supported by Sweden until two years ago.

Lead country	CCB to take th	e lead of Task 1			
Date	11 March 202	4			
Contact person					
Affiliation					
E-mail					
Code of action	14				
Action	Improve asses habitats and b vulnerable to	sment of impact of biologically sensitive elevated levels of co	continuous no areas and per ntinuous nois	ise by identifyi iods in the Balt e.	ng important ic Sea region,
Further specification	Some informa biological data HELCOM work	tion available (HELC a and science-based king and expert grou	OM 2019). To criteria and in ps (such as EG	be amended b cooperation w -MAMA).	ased on ⁄ith other
	A				
Main outcome	Approved maj	p on noise sensitive :	species in the	Baltic Sea	
Main outcome Sequential task description	Approved map Responsible	Contribution from	Begin date	Due date	Milestone
Main outcome Sequential task description 1) Joint workshop (on impulsive and continuous noise related to action 2, 14 and 24) with EG-MAMA, WG BioDiv and WG- FISH (in person, jointly)	Approved may Responsible Lead country/host Secretariat	Contribution from EG-Noise EG MaMa WG BioDiv WG Fish	Begin date	Due date	Milestone

Links: action 2.

Lead country					
Date	11 March 202	4			
Contact person					
Affiliation					
E-mail					
Code of action	15				
Action	Establishment	of a common meth	odology for as	sessment of im	pact of
	activities gene	rating continuous no	oise.		
Further	Applies to for	example shipping, o	ffshore wind f	arms, offshore	installations,
specification	construction v	vorks (other than pil	e driving and s	similar impulsiv	e sources) and
	offshore infras	structure, etc.			
Main outcome	Guidelines for	assessment of impa	ct of activities	generating co	ntinuous noise.
Sequential task description	Responsible	Contribution from	Begin date	Due date	Milestone
1) Compile and evaluate national guidelines and current practice	Lead	EG Noise	Q4 2025	Q2 2026	
2) To draft guidelines (possible HELCOM Recommendation)	Lead	EG Noise	Q3 2026 tentatively	Q4 2026 tentatively	

Links: depends on 17 (effects studies)

Projects contributing:

- <u>JPI Project ORCHESTRA</u> Ecosystem responses to constant offshore sound spectra, coordinated by Maarten Boersma, Alfred Wegener Institute for Polar and Marine Research (Germany).
- <u>JPI Project PURE WIND</u>-Impact of sound on marine ecosystems from offshore wind energy generation, coordinated by Ana Širović, Norwegian University of Science and Technology (Norway). The Gdynia Maritime University is part of the consortium of the PURE WIND JPI Ocean project.
- Energy Island North Sea and North Sea Lot 1 offshore wind farms. Strategic Impact Assessments of
 potential areas for wind farm development. Includes passive acoustic monitoring of cetaceans,
 monitoring of current underwater noise levels and modelling of future underwater noise levels.
 Funded by Energinet.dk. Conducted by NIRAS A/S and Aarhus University. To be reported in 2024 and
 2025.
- Strategic mapping of potential sites for offshore wind development in Danish waters, including mapping of marine mammal abundance and modelling of future underwater noise pressure layers.
 Funded by the Danish Energy Agency. Conducted by NIRAS A/S, Aarhus University, DMI and others.
 To be reported in 2024-2025.
- An Estonian project on effects of offshore wind turbine noise on Baltic herring with the University of Tartu (marine biology) and Tallinn University of Technology (acoustics). The project aims at using a robotic boat to map fish distribution around low-frequency sound source; the boat is equipped with hydrogen batteries for extended reproduction of low frequency noise as well as with a particle motion sensor.
- WindSound (project in Sweden with the Swedish Defence Research Institute (FOI) and the Royal Institute of Technology (KTH), 2024-2026), that will carry out measurements and modelling of the radiated operational noise (both sound pressure and sound particle motion) in the water and vibrations in the seabed from a large offshore wind farm (OWF). This work will form the basis of a framework and guidance for how the acoustic footprint from an OWF in an EIA should be estimated and how a monitoring program should be implemented, both regarding sound in water and vibrations in the seabed. The project will also ensure that the framework delivers the necessary data

for the Swedish Navy to be able to carry out its own risk analyses on the impact on the defence capability.

Lead country	Denmark tbc				
Date	11 March 202	4			
Contact person					
Affiliation					
E-mail					
Code of action	16				
Action	Further develo	op the HELCOM cont	inuous low-frea	quency noise pre	e-core
	indicator towa	ards an operational o	ore indicator.		
Further	This includes o	levelopment of met	hods to assess e	environmental st	atus based on
specification	the indicator (action 15) as well as	definition of th	resholds and tai	gets.
Main outcome	HELCOM core	indicator continuou	s low-frequency	/ noise	
Sequential task	Responsible	Contribution from	Begin date	Due date	Milestone
description	Responsible	contribution noin	Degin date	Due date	Whestone
1) Identify gaps	Secretariat		Q4 2023	Q4 2023	Review
preventing					conducted
acceptance as					
CORE indicator					
2) Evaluate	Lead country	EG Noise	Q2 2024	Q3 2024	
HOLAS 3					
assessment					
3) Update	EG Noise	Lead country	In alignment	In alignment	
indicator report		1	with HOLAS 4	with HOLAS 4	

Lead country	Lead needed.				
	Estonia to sup	port.			
	Sweden to sup	port work on other r	elevant species	groups differen	t from marine
	mammals.				
	Finland may b	e able to contribute			
Date	11 March 202	4			
Contact person					
Affiliation					
E-mail					
Code of action	18				
Action	Develop and in	mplement one or mo	ore HELCOM im	pact indicators f	or continuous
	low-frequency	v noise.			
Further	Based on the o	current pressure indi	cator (action 16	5), but with the i	nclusion of
specification	information al	pout distribution of s	ensitive species	s and habitats (a	ction 14).
Main outcome	HELCOM impa	ct indicator (pre-cor	e) for continuo	us low-frequenc	y noise
Sequential task	Responsible	Contribution from	Begin date	Due date	Milestone
description	neoponoiore		begin date		initestone
1) Evaluate	Lead	EG Noise	Q3 2024	Q1 2025	
HOLAS 3 and					
FU TG Noise					
2) Test indicator	Lead of	EG Noise:	In alignment	In alignment	
towards HOLAS 4	indicator	Input from EU TG	with HOLAS 4	with HOLAS 4	
		Noise, OSPAR ICG			
		Noise and			
		additional projects			
3) To draft	Lead of	EG Noise	In alignment	In alignment	
indicator report	indicator	50 11 :	with HOLAS 4	with HOLAS 4	
4) Test indicator	Lead of	EG NOISE	In alignment	In alignment	
IN HOLAS 4	indicator		with HOLAS 4	with HULAS 4	

Links: Depends on action 13 (noise maps), 14 (habitats), 15 (assessment methods), 16 (pressure indicator) and 17 (effects studies).

Projects contributing:

- <u>JPI Project DEUTERONOISE</u> Characterization of maritime noise in different European basins and its impact on ecological relevant deuterostome invertebrates, coordinated by Lucia Manni, University of Padua (Italy).
- <u>JPI Project DIAPHONIA</u> Diagnostic framework to assess and predict the impact of underwater noise on marine species, coordinated bby Sandro Mazzariol, University of Padua (Italy).
- "BIODIVERSEA LIFE-IP Project Sub-Action A8.2 Underwater noise and effects on fish and invertebrates": it is an 8 years project, which contains a Finnish national project sub-task description on underwater noise measurements and experiments to assess impacts of underwater noise. Available here: <u>https://www.metsa.fi/en/project/biodiversea-eng/</u>

Lead country	Germany				
Date	8 March 2024				
Contact person	Susanne Heitn	nüller and Nicole Hei	ibeck		
Affiliation	Federal Mariti	ime and Hydrograph	ic Agency (BSH)		
E-mail	susanne.heitm	nueller@bsh.de and	nicole.heibeck@	bsh.de	
Code of action	19				
Action	Expand and im measures to re guidelines on continuous no justification, a	nprove the existing a educe the impact of management. Suitat ise should be identit nd taking into accou	nd potential op continuous nois ble technical me fied (BAT/BEP), nt socioeconom	erational and se to form a ba asures to redu based on a sci nic impacts.	technical asis for common uce input of entific
Further specification	Collection of e new informati HELCOM scier	experience from HEL on through research nce agenda.	COM members and developme	and abroad an ent, as detaile	d collection of d in the
Main outcome	Management	Guidelines and BAT/	'BEP		
Sequential task description	Responsible	Contribution from	Begin date	Due date	Milestone
National project (work package 1)	Germany		November 2022	March 2024	Project Report -> Inventory of mitigation measures
Identification of Management Guidelines and BAT/BEP	Germany	All CPs, EG Noise	March 2024	2025	Management Guidelines and BAT/BEP

Lead country	Lead needed.	Sweden considering	leading.		
	Possible input	from CCB in connect	ion with a pilo	t project on mi	tigation
	measures.			1 5	5
	Finland can ve	ry likely contribute.			
Date	11 March 202	4			
Contact person					
Affiliation					
E-mail					
Code of action	20				
Action	Reduction of e	elevated continuous	noise levels in	noise sensitive	and
	biologically im	portant areas in the	Baltic Sea by a	adoption of gui	delines on
	management,	based on the "HELC	, OM input to th	ne establishme	nt of
	environmenta	l targets for underw	, ater noise" (20)18). The envir	onmental
	targets for un	derwater noise shou	Id take into ac	, count the targe	et values set by
	TG Noise at El	Jlevel		0	· · · · · · · · · · · · · · · · · · ·
Further	Implementatio	on of knowledge gair	ned under acti	on 19.	
specification					
Main outcome	Management	guidelines (possible	HELCOM Reco	mmendation)	on continuous
	noise in noise	sensitive and biolog	ically importar	nt areas in the l	Baltic Sea.
Sequential task	Posponsible	Contribution from	Pogin data	Duo data	Milostono
description	Responsible	Contribution from	begin date	Due date	whiestone
1) Evaluate	Lead		Q4 2024	Q1 2025	
results of action					
19 and pilot					
Studies	Lood	FC Noise	04 2024	04 2020	
2) Evaluate IIVIO	Lead	EG NOISE	Q4 2024	Q4 2026	
applicability to					
Baltic bearing in					
mind its					
experience					
building phase					
and, if relevant,					
inform IMO					
accordingly					
accordingly 3) Conduct	Lead	Secretariat	2027	2027	
accordingly 3) Conduct workshops with	Lead	Secretariat	2027	2027	
accordingly 3) Conduct workshops with stakeholders to	Lead	Secretariat	2027	2027	
accordingly 3) Conduct workshops with stakeholders to establish	Lead	Secretariat	2027	2027	
accordingly 3) Conduct workshops with stakeholders to establish consensus on regulation	Lead	Secretariat	2027	2027	
accordingly 3) Conduct workshops with stakeholders to establish consensus on regulation 4) Write and	Lead EG-Noise	Secretariat	2027	2027	
accordingly 3) Conduct workshops with stakeholders to establish consensus on regulation 4) Write and submit HELCOM	Lead EG-Noise	Secretariat	2027 2027	2027 2027	

Projects and available documentation contributing:

- TANGO project: study of the effect on underwater soundscapes by rerouting a major shipping lane into the Baltic. Link to end report: http://dce2.au.dk/pub/SR535.pdf
- Swedish Institute for the Marine Environment Report No. 2023:3 (2023-08-22)². Management Measures to
 - Reduce Continuous Underwater Noise from Shipping. Available here:

² By: Mathias Andersson, Swedish Defence Research Agency, FOI; Rickard Bensow, Chalmers University of Technology; Dag Glebe, IVI Swedish Environmental Research Institute; Ida-Maja Hassellöv, Chalmers University of Technology; Emilia Lalander, Swedish Defence Research Agency, FOI; David Langlet, Uppsala University; Kjell Larsson, Linnaeus University; Lars-Göran Malmberg, University Of Gothenburg; Eva-Lotta Sundblad, Swedish Institute for the Marine Environment; Mikael Svedendahl, Swedish Defence Research Agency, FOI.

<u>https://havsmiljoinstitutet.se/publikationer/havsmiljoinstitutets-rapportserie/atgarder-for-att-minska-undervattensbuller-fran-fartygstrafik</u> (please note that the report is available in English, even though the landing page is not). The project covers:

- legal aspects of underwater noise from shipping;
- cavitation noise generation and its impact on ship propulsion design and operation;
- modelling of ships as point sources of noise; and
- a case study on the effect of restricting ship speed.
- Swedish Environmental Research Institute report C743, (2023)³. Underwater noise from fairways policies, incentives and measures to reduce the environmental impact. Available here: https://www.ivl.se/english/ivl/publications/publications/underwater-noise-from-fairways---policies-incentives-and-measures-to-reduce-the-environmental-impact.html. The project covers:
 - overview of noise from ships;
 - overview of effects on marine life;
 - ship noise mitigation techniques;
 - stakeholder analysis and network activities;
 - fairway design for reduced noise transmission; and
 - a financial incentive for underwater noise reduction in Swedish waters.
- Report about the rerouting in Kattegat (2022): <u>https://www.foi.se/rest-api/report/FOI-R--5334--SE</u>
- Silent@Sea IVL project funded by Trafikverket, 4,5 Mkr, which ends in late 2023. The report will be published in English. The project is organizing a seminar on ship noise, with a focus on electrical and LNG ships to be held on 7 November 2023. Available here: https://comm.ri.se/b/v?event=1962&ucrc=8B76B84035&utm_campaign=Welcome+to+a+seminar+on+ship+noise%2c+with+a+focus+on+electrical+and+LNG+ships-SMTF+Nyheter&utm_medium=email&utm_source=lime-newsletter
- <u>Best Available Technology (BAT) and Best Environmental Practice (BEP) for Mitigating Three Noise</u> <u>Sources: Shipping, Seismic Airgun Surveys, and Pile Driving, CMS Technical Series Publication No. 46, 2023</u>

³ By: Torbjörn Johansson, Sara Sköld, Carl Andersson, Anna-Sara Krång, Hulda Winnes, Cecilia Andersson and Sabina Hoppe.

Lead country Date	Lead needed. CCB taking the measures as w funding availa Finland can ve 11 March 202	e lead of Task 1 in con vell as on material to ble. ery likely contribute. 4	nnection with wards raising	a pilot project c awareness, dep	on mitigation pending on
Contact person	11 11101 011 202	<u>.</u>			
Affiliation					
E-mail					
Code of action	21				
Action	Inciting nation and boat oper on speed man and planning f underwater no	al and voluntary acti ators and cooperatic agement for their ve or vessel speed and oise.	ions with respons on with shippir essels including engine load op	ect to raising av ng companies a g different aspe ptimised for the	wareness of ship nd boat owners octs of adjusting e reduction of
Further specification	This can incluc example at ou crew, to raise for reduced ur	te installing monitori iter approaches to po awareness and to aid nderwater noise radi	ing systems at orts) with real- d in optimizing ation.	strategic locati time feedback vessel and eng	ons (for to the ship's gine operations
Main outcome	Information ma underwater no	terial inciting nationa	al and voluntar	y actions to red	duce
Sequential task description	Responsible	Contribution from	Begin date	Due date	Milestone
1) Workshop to					
identify the type of material needed to raise awareness depending on the targeted stakeholders and sharing of national experiences (e.g. from roundtables, IMO)	CCB considering leading	CPs	Q3 2024	Q4 2024	

Projects contributing:

- CCB together with research institutions from Germany, Latvia and Poland are involved in the <u>Red</u> <u>Noise Baltship</u> project working on awareness raising and establishing dialogue with relevant stakeholders. CCB is also working on a bigger project application to pilot mitigation measures and invited Contracting Parties to take part in the project application.
- The INCITESHIP project (IVL and FOI in Sweden is lead with support from SMHI and Aarhus University (DK)) will demonstrates how an incentive system that can be used to reward quiet ships based on

their underwater radiated noise level and its relation to newly developed thresholds for impact on marina animals. The system includes a new type of measurement station for quality-assured and cost-effective noise measurements of ships in commercial traffic.

Lead country	Lead needed					
Date	11 March 202	4				
Contact person						
Affiliation						
E-mail						
Code of action	22					
Action	Enhance Baltio	c Sea wide cooperati	on of port aut	horities to in	ntroduce novel	
	initiatives, suc	h as harbour fee sys	tems, in order	r to set incer	tives for	
	voluntary quie	voluntary quiet vessel operation.				
Further	See Port of Vancouver (2017), ECHO Program					
specification						
Main outcome	Implementation	n plan for port authori	ties to introdu	ce initiatives	towards	
	voluntary quie	t vessel operations.				
Sequential task	Responsible	Contribution from	Begin date	Due date	Milestone	
description						
	_			1		
1) Conduct a	Lead	Secretariat	Q1 2025	Q2 2025		
1) Conduct a stakeholder	Lead	Secretariat EG Noise	Q1 2025	Q2 2025		
1) Conduct a stakeholder workshop to	Lead	Secretariat EG Noise Maritime WG	Q1 2025	Q2 2025		
1) Conduct a stakeholder workshop to share the Vancouver	Lead	Secretariat EG Noise Maritime WG	Q1 2025	Q2 2025		
1) Conduct a stakeholder workshop to share the Vancouver experience	Lead	Secretariat EG Noise Maritime WG	Q1 2025	Q2 2025		
1) Conduct a stakeholder workshop to share the Vancouver experience 2) Define areas in	Lead	Secretariat EG Noise Maritime WG Lead	Q1 2025 Q2 2025	Q2 2025		
1) Conduct a stakeholder workshop to share the Vancouver experience 2) Define areas in the Baltic Sea and	Lead CPs	Secretariat EG Noise Maritime WG Lead EG Noise	Q1 2025 Q2 2025	Q2 2025 Q3 2026		
1) Conduct a stakeholder workshop to share the Vancouver experience 2) Define areas in the Baltic Sea and conduct pilot	Lead CPs	Secretariat EG Noise Maritime WG Lead EG Noise Maritime WG	Q1 2025 Q2 2025	Q2 2025 Q3 2026		
1) Conduct a stakeholder workshop to share the Vancouver experience 2) Define areas in the Baltic Sea and conduct pilot studies in these	Lead CPs	Secretariat EG Noise Maritime WG Lead EG Noise Maritime WG	Q1 2025 Q2 2025	Q2 2025 Q3 2026		
 Conduct a stakeholder workshop to share the Vancouver experience Define areas in the Baltic Sea and conduct pilot studies in these areas 	Lead CPs	Secretariat EG Noise Maritime WG Lead EG Noise Maritime WG	Q1 2025 Q2 2025	Q2 2025 Q3 2026		
1) Conduct a stakeholder workshop to share the Vancouver experience 2) Define areas in the Baltic Sea and conduct pilot studies in these areas 3) Draft	Lead CPs Lead	Secretariat EG Noise Maritime WG Lead EG Noise Maritime WG EG Noise	Q1 2025 Q2 2025	Q2 2025 Q3 2026		
 Conduct a stakeholder workshop to share the Vancouver experience Define areas in the Baltic Sea and conduct pilot studies in these areas Draft implementation 	Lead CPs Lead	Secretariat EG Noise Maritime WG Lead EG Noise Maritime WG EG Noise Maritime WG	Q1 2025 Q2 2025	Q2 2025 Q3 2026		
 Conduct a stakeholder workshop to share the Vancouver experience Define areas in the Baltic Sea and conduct pilot studies in these areas Draft implementation plan / 	Lead CPs Lead	Secretariat EG Noise Maritime WG Lead EG Noise Maritime WG EG Noise Maritime WG	Q1 2025 Q2 2025	Q2 2025 Q3 2026		
1) Conduct a stakeholder workshop to share the Vancouver experience 2) Define areas in the Baltic Sea and conduct pilot studies in these areas 3) Draft implementation plan / management	Lead CPs Lead	Secretariat EG Noise Maritime WG Lead EG Noise Maritime WG EG Noise Maritime WG	Q1 2025 Q2 2025	Q2 2025 Q3 2026		

Lead country Lead needed Date 11 March 2024 Contact person Affiliation E-mail Code of action 23 Action Identification of other noise sources with significant impact on the marine ecosystems but not covered by the measures targeting impulsive and continuous noise Each Each Each
Date 11 March 2024 Contact person
Contact person Affiliation E-mail Code of action 23 Action Identification of other noise sources with significant impact on the marine ecosystems but not covered by the measures targeting impulsive and continuous noise Ended The back have the bac
Affiliation E-mail Code of action 23 Action Identification of other noise sources with significant impact on the marine ecosystems but not covered by the measures targeting impulsive and continuous noise Early The target is
E-mail Code of action 23 Action Identification of other noise sources with significant impact on the marine ecosystems but not covered by the measures targeting impulsive and continuous noise Early The balance of the b
Code of action 23 Action Identification of other noise sources with significant impact on the marine ecosystems but not covered by the measures targeting impulsive and continuous noise
Action Identification of other noise sources with significant impact on the marine ecosystems but not covered by the measures targeting impulsive and continuous noise
ecosystems but not covered by the measures targeting impulsive and continuous noise
continuous noise
Further This includes, but is not limited to, sources with main energy above 10 kHz:
specification echosounders, military and non-military sonars, sub-bottom profilers, net
pingers, and hydroacoustic instruments.
Main outcome
Sequential task Responsible Contribution from Regin date Due date Milestone
description description
1) ReviewLeadEG NoiseQ2 2024Q3 2024Living
sources document to be
(document prepared for
prepared by EG the IC RAP
Noise and NOISE 2-2024
Sea-based
for the session

Lead country	CCB to take th	e lead of Task 1.			
	Finland can ve	ry likely contribute			
Date	11 March 202	4			
Contact person					
Affiliation					
E-mail					
Code of action	24				
Action	Identification	of important habitat	s and biologica	ally sensitive are	eas and periods
	in the Baltic Se	ea region, vulnerable	to elevated le	vels of noise fr	om other
	sources than t	hose covered by exis	ting pressure	indicators.	
Further	Based on biolo	gical data and scien	ce-based crite	ria and in coope	eration with
specification	other HELCON	1 working and expert	groups (such	as EG-MAMA)	
Main outcome					
Sequential task	Posponsiblo	Contribution from	Rogin data	Duo data	Milostopo
description	Responsible	Contribution from	Degin uate	Due date	whiestone
1) Joint	Lead	EG-Noise	Workshop		
workshop (on	country/host	EG MaMa	during		
impulsive and	Secretariat	WG BioDiv	second half		
continuous noise		WG Fish	of 2024		
related to action		HELCOM VASAB-			
2, 14 and 24)		MSP WG			
WG BioDiv WG					
FISH HELCOM					
VASAB-MSP WG					
(in person,					
jointly)					
jointly) 2) Identify and	CPs	Lead country			
jointly) 2) Identify and fund dedicated	CPs	Lead country EG-Noise			

Lead country	Lead needed.				
	Possible input	from CCB in connect	tion with a pilo	ot project on m	itigation
	measures.	•			2
	Finland can ve	ry likely contribute			
Date	11 March 202	4			
Contact person					
Affiliation					
E-mail					
Code of action	25				
Action	Compile and a	ssess available infor	mation about	potential impa	act caused by
	noise from leis	sure boats			
Further	As detailed in	the HELCOM science	e agenda		
specification					
Main outcome	Management re	ecommendations for n	oise caused by	leisure boats.	
Sequential task	Responsible	Contribution from	Begin date	Due date	Milestone
Sequential task description	Responsible	Contribution from	Begin date	Due date	Milestone
Sequential task description 1) Undertake a	Responsible Lead	Contribution from EG Noise	Begin date tbd	Due date tbd	Milestone
Sequential task description 1) Undertake a project to review and produce new	Responsible Lead	Contribution from EG Noise	Begin date tbd	Due date tbd	Milestone
Sequential task description 1) Undertake a project to review and produce new information on	Responsible Lead	Contribution from EG Noise	Begin date tbd	Due date tbd	Milestone
Sequential task description 1) Undertake a project to review and produce new information on the potential	Responsible Lead	Contribution from EG Noise	Begin date tbd	Due date tbd	Milestone
Sequential task description 1) Undertake a project to review and produce new information on the potential impact of noise	Responsible Lead	Contribution from EG Noise	Begin date tbd	Due date tbd	Milestone
Sequential task description 1) Undertake a project to review and produce new information on the potential impact of noise caused by leisure	Responsible Lead	Contribution from EG Noise	Begin date tbd	Due date tbd	Milestone
Sequential task description 1) Undertake a project to review and produce new information on the potential impact of noise caused by leisure boats	Responsible Lead	Contribution from EG Noise	Begin date tbd	Due date tbd	Milestone
Sequential task description 1) Undertake a project to review and produce new information on the potential impact of noise caused by leisure boats 2) Develop	Responsible Lead	Contribution from EG Noise EG Noise	Begin date tbd tbd	Due date tbd	Milestone
Sequential task description 1) Undertake a project to review and produce new information on the potential impact of noise caused by leisure boats 2) Develop management	Responsible Lead	Contribution from EG Noise EG Noise	Begin date tbd tbd	Due date tbd tbd	Milestone
Sequential task description 1) Undertake a project to review and produce new information on the potential impact of noise caused by leisure boats 2) Develop management recommendations,	Responsible Lead	Contribution from EG Noise EG Noise	Begin date tbd tbd	Due date tbd tbd	Milestone
Sequential task description 1) Undertake a project to review and produce new information on the potential impact of noise caused by leisure boats 2) Develop management recommendations, based on the	Responsible	Contribution from EG Noise EG Noise	Begin date tbd tbd	Due date tbd tbd	Milestone
Sequential task description 1) Undertake a project to review and produce new information on the potential impact of noise caused by leisure boats 2) Develop management recommendations, based on the outputs of the	Responsible	Contribution from EG Noise EG Noise	Begin date tbd tbd	Due date tbd tbd	Milestone

Projects contributing:

- Swedish Project title: "Environmental Impact of underwater noise from leisure boats quantifying impact and estimating efficiency of measures (2022-2024)". Available here: https://www.ivl.se/vart-erbjudande/forskning/vatten/miljopaverkan-fran-fritidsbatars-undervattensbuller.html. It is a national funded project that studies the radiated noise from recreational boats. There are no deliveries yet available, but a lot of fieldwork has been performed.
- <u>DEMASK project</u> Development and evaluation of noise management strategies to keep the North Sea healthy, started in January 2024, will run for three years. The aim of the project is to bring together policy makers, scientists, non-governmental organizations (NGOs), and the maritime industry in the management of the underwater soundscape of the North Sea. The project will enable stakeholders to facilitate a well-managed soundscape and strengthen the marine ecosystem. DEMASK will develop an approach for defining policy scenarios for underwater noise management and a method to quantify the effectiveness of those scenarios to mitigate noise pollution and its effects on marine life.

Lead country							
Date	11 March 2024						
Contact person							
Affiliation							
E-mail							
Code of action	26						
Action	Development under measure	of HELCOM indicator e 23.	s suitable for m	onitoring noise so	ources identified		
Further specification	Existing indica noise, but doe pingers, etc.	Existing indicators cover impulsive noise under 10 kHz and continuous low-frequency noise, but does not include echosounders, most sonars and sub-bottom profilers, net ningers, etc.					
Main outcome							
Sequential task description	Responsible	Responsible Contribution from Begin date Due date Milestone					
1) Develop and fund pilot/development projects 2) 3)							

To be considered at a later stage, once action 23 is implemented.

Lead country						
Date	11 March 2024					
Contact person						
Affiliation						
E-mail						
Code of action	27					
Action	Development	of common guidelin	es for assessir	ng impact from e	chosounders,	
	sonars and ot	her sources not cove	ered by 2.1 and	d 2.2		
Further	Such as to app	oly to environmental	impact assess	sments (EIAs) an	d assessment of	
specification	environmenta	l status (GES).				
Main outcome						
Sequential task description	Responsible	Contribution from	Begin date	Due date	Milestone	
Contracting				Continuous		
Parties to						
provide						
information on						
these projects to						
the Secretariat						
To review the						
information						
from national						
projects and						
decide on						
hased on this						
information						

Lead country					
Date	11 March 2024				
Contact person					
Affiliation					
E-mail					
Code of action	29				
Action	Reduce the im	pact from acoustic	deterrent devi	ces by develop	ing and
	agreeing on co	ommon guidelines a	nd regulation (of the design a	nd use of
	deterrent dev	ices			
Further	Action propos	ed for BSAP update			
specification					
Main outcome					
Main outcome					
Sequential task	Responsible	Contribution from	Begin date	Due date	Milestone
Sequential task description	Responsible	Contribution from	Begin date	Due date	Milestone
Sequential task description 1) Review	Responsible Lead	Contribution from EG Noise	Begin date	Due date	Milestone
Sequential task description 1) Review national	Responsible Lead	Contribution from EG Noise	Begin date	Due date	Milestone
Sequential task description 1) Review national guidelines and	Responsible Lead	Contribution from EG Noise	Begin date	Due date	Milestone
Sequential task description 1) Review national guidelines and empirical evidence in	Responsible Lead	Contribution from EG Noise	Begin date	Due date	Milestone
Sequential task description 1) Review national guidelines and empirical evidence in cooperation with	Responsible Lead	Contribution from EG Noise	Begin date	Due date	Milestone
Sequential task description 1) Review national guidelines and empirical evidence in cooperation with WG Fish	Responsible Lead	Contribution from EG Noise	Begin date	Due date	Milestone
Sequential task description 1) Review national guidelines and empirical evidence in cooperation with WG Fish (responsible for	Responsible Lead	Contribution from EG Noise	Begin date	Due date	Milestone
Sequential task description 1) Review national guidelines and empirical evidence in cooperation with WG Fish (responsible for the	Responsible Lead	Contribution from EG Noise	Begin date	Due date	Milestone
Sequential task description 1) Review national guidelines and empirical evidence in cooperation with WG Fish (responsible for the implementation	Responsible Lead	Contribution from EG Noise	Begin date	Due date	Milestone

Lead country	Germany to contribute and CCB to co-lead						
Date	11 March 2024						
Contact person							
Affiliation							
E-mail							
Code of action	31						
Action	Establish platfo	orms to share best pra	actices on policy	options within	member states		
	and between a	authorities, the private	e sector and NG	O's. Improve pu	ublic awareness, so		
	that political d	ecision makers, local	administrations	and civil society	y are adequately		
	informed abou	it the underwater noi	se challenges.				
Further	For example, is	ssuing a bulletin on be	est practices and	policy options	in the region and		
specification	in the world.						
Main outcome							
Sequential task	Pernonsible	Contribution from	Begin date	Due date	Milestone		
description	Responsible	Contribution from	Deginuate	Due date	whiestone		
Share national	All CPs		Q4 2024 (SBP	Continuous			
experiences as we			4-2024)				
as other							
experiences to EG							
Sea-based							
pressures							
Evaluate how to	All CPs		Q1 2025 (SBP	Q4 2025			
build an online			5-2025)				
platform							

Lead country	No lead needed (Secretariats and Chair to lead)				
Date	11 March 2024				
Contact person					
Affiliation					
E-mail					
Code of action	32				
Action	Strengthen th	e cooperation with	OSPAR on deve	lopment of com	mon and/or
	compatible in	dicators, databases	and assessmen	t methodologies	5
Further	As agreed on a	an overall level in th	e 2018 HELCON	Л Brussels decla	ration
specification					
Main outcome					
Sequential task	Posponsiblo	Contribution from	Bogin data	Duo data	Milostopo
description	Responsible	Contribution from	begin uate	Due uale	whiestone
1) Conduct	EG-Noise	OSPAR ICG Noise	Continuous	Continuous	Joint meetings
regular joint					
including ICES					
Including ICES					

Lead country	No lead needed						
Date	11 March 2024						
Contact person							
Affiliation							
E-mail							
Code of action	33						
Action	Maintain and	strengthen coopera	tion with the E	uropean Union	expert group		
	TG-Noise on is	ssues of mutual inte	rest				
Further	In particular to	o assure consistency	/ in developme	nt of indicators	and criteria		
specification	and methods	for establishing thre	sholds and tar	gets			
Main outcome							
Sequential task description	Responsible Contribution from Begin date Due date Milestone						
1) Assure	CPs	CPs Secretariat Continuous Continuous EG Noise					
exchange of					members are		
information					part of TG		
between					Noise		
representatives							

Lead country	Lead needed.							
	Possible input from CCB in connection with a pilot project on mitigation measures.							
	Finland may be	e able to contribute.						
Date	11 March 2024	11 March 2024						
Contact person								
Affiliation								
E-mail								
Code of action	34							
Action	Reduce the im	pact from leisure boat	ts by establishin	g a discussion wi	th producers of			
	echosounders	and fishfinders with t	he goal of intro	ducing standards	for noise			
	emission from	echosounders, fishfin	ders and engine	es of leisure boat	S.			
Further	This aims for e	This aims for example at installing on/relates to the ability to turn off and adjust						
specification	source level and frequency of echosounders and fish-finders, as well as developing							
	industry standards for underwater noise emissions for boat engines.							
Main outcome								
Sequential task description	Responsible	Contribution from	Begin date	Due date	Milestone			

To be considered at a later stage in conjunction with additional action on leisure boat (action 25).

Lead country	Lead needed.	Lead needed.				
	CCB to contrib	ute. Finland can very l	likely contribute	if the Aurora Int	erreg project is	
	granted					
Date						
Contact person						
Affiliation						
E-mail						
Code of action	35					
Action	Reduce the im	pact from underwater	r explosions in c	onnection to mu	nition clearance,	
	by developing	international guidelin	es for the safe r	emoval and deto	onation of	
	ammunition. T	he guidelines should l	pe established t	hrough consultat	tion with the	
	Ministry of Det	fence of the Russian F	ederation and N	NATO and lead ac	tions for use of	
	noise mitigatio	on technologies and or	perating practic	es in the Baltic Se	ea.	
Further	Initiate discuss	ions on the use of noi	se mitigation m	easures, as well	as informing	
specification	nature protect	ion institutions about	planned deton	ations and mitiga	ition methods.	
	Including, but	not limited to, discuss	ions on deterre	nt measures, aba	atement	
	technologies, s	spatio-temporal plann	ing of clearance	e operations in re	lation to	
	ecosystem sen	sitivity. Initiate discus	sions on feasibi	lity of reducing t	he impact on	
	biota without o	compromising navigat	ional safety.		·	
Main outcome						
Sequential task	Despensible	Contribution from	Desin data	Due dete	Milectore	
description	Responsible	Contribution from	Begin date	Due date	willestone	
1) Conduct		EG Submerged				
workshop with		Relevant projects				
representatives						
from national						
navies and other						
2) Poviow						
empirical						
evidence for						
BAT/BEP and						
national						
guidelines		1	1	1	1	
3) Draft HELCOM						

Links: Connected with action BSAP action S34.

Projects and activities contributing:

- Finnish application to an Aurora Interreg call, where the main focus of the project for 2025-2027 would be EIAs from marine explosions (potentially also piling, but this is tbc). If the project is funded, Finland would be happy to contribute to impulsive noise actions, particularly related to explosions, EIAs, and also modelling and measuring noise from impulsive sources/explosions. Aurora Interreg region does not cover all the Baltic Sea, but it would be ideal to align this project with HELCOM RAP Noise.
- A joint ACCOBAMS-ASCOBANS workshop with navies and NATO (workname) envisged to take place on 8-9 October 2024 in Toulon. The workshop will build on the ACCOBAMS 2019 workshop on sonars and cetacean interactions (report here) and include ASCOBANS <u>AC26/AP3</u> request to "consider navies' mitigation protocols for use of military sonar and management of other activities that can contribute to potentially harmful underwater noise, including the removal and/or detonation of Unexploded Ordnance (UXO); and solutions for acoustic monitoring and bycatch mitigation (deterrent devices) in synergy with national security activities".