Implementation plans for regional actions in the RAP Noise

Lead country	Germany to le	ad						
	(Estonia ana S	Estonia and Sweden to contribute to parts of the action)						
	Germany resp	Sermany responsible of implementing Task 1						
Date	11 March 202	11 March 2024						
Contact person								
Affiliation								
E-mail								
Code of action	1							
Action	Improve the q	uality of data submi	tted to the HEI	COM impulsiv	e noise registry			
	by updating a	nd improving the co	mmon HELCON	A guidelines fo	r monitoring			
	impulsive nois	e events in the Balti	c Sea.					
Further		reporting to the regi	• •					
specification	to increase the	e completeness, spa	tio-temporal re	esolution and o	quality of			
	submissions to	o the registry.						
Main outcome	Monitoring gu	idelines for impulsiv	e noise events					
Sequential task	Responsible	Contribution from	Begin date	Due date	Milestone			
description								
1) Revise	EG-Noise	Lead country	2024	End of 2024	Revised			
guidance for					guidance			
reporting pile driving noise					available			
2) Revise	EG-Noise	Lead country	2024	[End of	Revised			
guidance for			2024	2024]	guidance			
reporting air gun				,	-			
noise	available							
3) Adapt	EG-Noise	Lead country	2024	[End of	Topic included			
3) Adapt guidelines to	EG-Noise	Lead country	2024	[End of 2024]				
3) Adapt guidelines to include other	EG-Noise	Lead country	2024	-	Topic included			
3) Adapt guidelines to include other hydroacoustic	EG-Noise	Lead country	2024	-	Topic included			
3) Adapt guidelines to include other hydroacoustic surveys	EG-Noise	Lead country		-	Topic included			
3) Adapt guidelines to include other hydroacoustic surveys [Discuss and	EG-Noise	Lead country	To be	-	Topic included			
3) Adapt guidelines to include other hydroacoustic surveys [Discuss and agree with navies	EG-Noise	Lead country	To be discussed by	-	Topic included			
3) Adapt guidelines to include other hydroacoustic surveys [Discuss and agree with navies on procedures	EG-Noise	Lead country	To be	-	Topic included			
3) Adapt guidelines to include other hydroacoustic surveys [Discuss and agree with navies on procedures for recording	EG-Noise	Lead country	To be discussed by the end of	-	Topic included			
3) Adapt guidelines to include other hydroacoustic surveys [Discuss and agree with navies on procedures	EG-Noise	Lead country	To be discussed by the end of	-	Topic included			
3) Adapt guidelines to include other hydroacoustic surveys [Discuss and agree with navies on procedures for recording explosions]	EG-Noise	Lead country	To be discussed by the end of 2024	-	Topic included			
3) Adapt guidelines to include other hydroacoustic surveys [Discuss and agree with navies on procedures for recording explosions] [Initiate	EG-Noise	Lead country	To be discussed by the end of 2024 To be discussed by the end of	-	Topic included			
3) Adapt guidelines to include other hydroacoustic surveys [Discuss and agree with navies on procedures for recording explosions] [Initiate discussion with NATO and/or CPs regarding	EG-Noise	Lead country	To be discussed by the end of 2024 To be discussed by	-	Topic included			
3) Adapt guidelines to include other hydroacoustic surveys [Discuss and agree with navies on procedures for recording explosions] [Initiate discussion with NATO and/or CPs	EG-Noise	Lead country	To be discussed by the end of 2024 To be discussed by the end of	-	Topic included			

Lead country	Lead needed.						
	CCB to take the le	ad of Task 1					
	(Poland to contrib	(Poland to contribute with overlaying data on noise sensitive species and nois					
	input on maps)						
Date	11 March 2024						
Contact person							
Affiliation							
E-mail							
Code of action	2						
Action	Improve assessme	ent of impact of imp	ulsive noise b	v identifving	important		
		gically sensitive are			•		
		iction of high-energ	•				
	impact.	0 0	, 1	,	0		
Further		1 identified noise se	nsitive marine	animal spec	ies (HELCOM		
specification		o be delineated bas		•	•		
		peration with other	-				
	as EG-MAMA)	•		0 1	0 1 (
Main outcome	/	noise sensitive spe	cies in the Bal	tic Sea			
Sequential task		Contribution from			N 4:Lootomo		
description	Responsible	Contribution from	Begin date	Due date	Milestone		
1) Joint	Lead	EG-Noise	Workshop				
workshop (on	country/host	EG MaMa	during				
impulsive and	Secretariat	WG BioDiv	second half				
continuous		WG Fish	of 2024				
noise related to							
action 2 , 14 and 24) with EG-							
MAMA, WG							
BioDiv and WG-							
FISH (in person,							
jointly)							
2) Identify and	CPs	Lead country					
fund dedicated		EG-Noise					
projects		SAMBAH 2					
1	1	project			1		

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.

	1						
Lead country	Germany (Co	Germany (Co-Lead) and Denmark (Co-Lead)					
Date	11 March 2024						
Contact person	Carina Juretzo	ek (DE) and Siri La	nder Elmega	ard (DK)			
Affiliation	BSH and MIN	1					
E-mail	Carina.Juretz	<u>ek@bsh.de</u> and <u>sil</u>	ae@mim.dk				
Code of action	3						
Action	Establish com impulsive noi	-	y for the asse	essment of n	egative impact from		
Further	Development	and description c	of best praction	ce for assess	ing potential injury		
specification	and behaviou	ral disturbance (h	abitat loss) ir	n relation to	for example		
	environmenta	al impact assessm	ents (EIAs) ar	nd strategic i	mpact assessments		
	(SIAs).						
Main outcome	Best practice	document					
Sequential task description	Responsible	Contribution from	Begin 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		
of other BEP					and review by CP's		
3.0 Review of	DK, DE	All CP's (written	11/2024	02/2025	finalized Evaluation of BEP		
experience with	DK, DE	input expected)	11/2024	03/2025	application		
BEP's and scientific		input expected)			performed		
developments					P		
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	4							
Contact person									
Affiliation									
E-mail									
Code of action	4								
Action	Further develo	op the HELCOM impuls	sive noise pre-co	ore indicator tow	vards an				
	operational co	re indicator	-						
Further	This includes d	levelopment of metho	ds to assess en	vironmental stat	us based on the				
specification		ell as definition of thre							
Main outcome		indicator on impulsive							
Sequential task	Responsible	Contribution from	Begin date	Due date	Milestone				
description	neoponoiore		Begin date						
1) Identify gaps	Secretariat;		2023	End of 2023					
preventing	Sea-Based								
acceptance as	Pressures								
CORE indicator									
2) Evaluate	Lead country	EG Noise;	Q2 of 2024	End of 2025					
HOLAS3		Input from EU TG							
assessment		Noise and OSPAR							
		ICG Noise needed							
3) Update	EG Noise	Germany to	In alignment	In alignment					
indicator report		consider leading the	with HOLAS 4	with HOLAS 4					
		task	timeline	timeline					

Lead country	Lead needed.						
Lead country		nort work on other	colouant chocia	s arouns diffor	ont from marina		
		Sweden to support work on other relevant species groups different fro mammals.					
Dette	Estonia to sup	port.					
Date							
Contact person							
Affiliation							
E-mail							
Code of action	5						
Action	Develop and in noise	mplement one or mo	ore HELCOM in	npact indicator	s for impulsive		
Further specification	about distribu of the work de preferably be	current pressure indi tion of sensitive spe- escribed in the noise along the same lines in OSPAR and in acco	cies and habita sensitivity rep as the impact	its. This work is ort (HELCOM 2 indicator curre	s a continuation 1019) and should ently under		
Main outcome	HELCOM (pre-	core) impact indicat	or on impulsiv	e underwater r	noise.		
Sequential task description	Responsible	Contribution from	Begin date	Due date	Milestone		
1) Evaluate OSPAR impact	Lead	ead EG Noise; 2025 Input from OSPAR ICG Noise and EU					
indicator							
	Lead	ICG Noise and EU	In alignment with HOLAS 4	In alignment with HOLAS 4			

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.

Lead country	Germany						
Date		11 March 2024					
Contact person	Carina Juretzek						
Affiliation	BSH						
E-mail	-	k@bcb.do					
	<u>Carina.Juretze</u>	<u>ek@bsn.de</u>					
Code of action	6 Identify Deet	Aveilable Technologi			h at a manual of		
Action	impulsive no	Available Technologi ise. Among these coll med to reduce the im	lect existing	national regu	ulations and		
	form relevan	ms of the Baltic Sea a t HELCOM guidelines	S.				
Further	Including nois	e abatement systems a	nd alternativ	e installation	methods for		
specification	offshore wind	farms, spatio-tempora	l exclusion of	UXO clearing	and alternatives		
	to detonation	, commercial sonars an	d test/trainin	g/exercise of	military sonars,		
	alternative se	ismic sources, and sub-	bottom profi	ers.			
Main outcome	HELCOM BAT	Guidelines					
Sequential task description	Responsible	Contribution from	Begin date	Due date	Milestone		
Create and	DE	DE	2022	2022	Summary		
provide a					shared with IC		
summary for BEP					PRESSURE 2-		
& BAT for pile driving in					2022		
Germany							
Complete	DE	All contracting	04.2024	05.2024	Acquire		
questionnaire on		parties, EG Noise	•		information		
national BAT and		• *			basis for a first		
BEP					draft of		
					available		
					BAT/BEP		
Expert-workshop	DE	Interested	06.2024	09.2024	Acquire		
on BAT and		contracting parties			information		
national experiences					and experience basis for draft		
(optional)					BAT guideline		
Create first draft	DE	DE using collected	07.2024	11.2024	HELCOM BAT		
of HELCOM BAT		information from the			guideline		
guideline		questionnaire and			drafted		
_		expert-workshop					
Review and	DE	All contracting parties	12.2024	02.2025	HELCOM BAT		
amendment of					guideline		
the draft					reviewed		
HELCOM BAT							
guideline			02 2025	07 2025			
-		An contracting parties	03.2025	07.2025			
					-		
Finalizing HELCOM BAT guideline	DE	All contracting parties	03.2025	07.2025	HELCOM BAT guideline finalized		

Lead country	Germany				
Date	11 March 2024	1			
Contact person	Carina Juretzel	k			
Affiliation	BSH				
E-mail	Carina.Juretze	k@bsh.de			
Code of action	7				
Action	(BAT) in mitiga best practice g	se of Best Environmention of impact from in uidelines in methods	mpulsive noise for mitigation o	by establishing c of impact from in	ommon HELCOM
Further specification	Implementatio	on of the knowledge g	ained from acti	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.

Considers co-leading if the Aurora Interreg project is granted Date 11 March 2024 Contact person	Lead country	Lead needed. Sweden co-leading, Germany and Denmark consider co-leading. Finland							
Contact person Affiliation E-mail E-mail Code of action 8 Action Improve regional and cross-border coordination of the spatio-temporal planning and permitting by establishing a common reporting system for planned activities likely to produce impulsive noise. Further specification This constitutes an extension of the impulsive noise registry to include future activities that are currently only recorded after they occurred. Main outcome Regional planning tool for permitting and reporting planned activities Sequential task description Responsible Contribution from Begin date Due date Milestone 1) Organize a workshop to project Responsible Contribution from Begin date Due date Milestone 2) Fund and considers colleading. Germany and Denmark to consider colleading. EG Noise First half of 2024 of 2024 of 2024 2) Fund and considers a planning tool for the spation of the workshop Lead Second half of 2024 of 2024 <th></th> <th></th> <th colspan="7">considers co-leading if the Aurora Interreg project is granted</th>			considers co-leading if the Aurora Interreg project is granted						
Affiliation E-mail E-mail Improve regional and cross-border coordination of the spatio-temporal planning and permitting by establishing a common reporting system for planned activities likely to produce impulsive noise. Further This constitutes an extension of the impulsive noise registry to include future activities that are currently only recorded after they occurred. Main outcome Regional planning tool for permitting and reporting planned activities Sequential task description Responsible Contribution from Begin date Due date Milestone 1) Organize a workshop to plan a pilot leading. Lead(s): EG Noise First half of 2024 Second half of 2024 2) Fund and considers coleading. Germany and Denmark to consider coleading. EU TG Noise First half of 2024 Second half of 2024 2) Fund and conduct pilot project for example in the Arkona Basin towards a planning tool for the regional level Secretariat TBD based on the workshop Implement workshop 10) Stablish a regional Implement basis TBD based on the on the spation base Implement base Implement base 2) Fund and conduct pilot project for example in the Arkona Basin towards a planning tool for the regional level Secretariat TBD based on the on t	Date	11 March 202	4						
E-mail Second action 8 Action Improve regional and cross-border coordination of the spatio-temporal planning and permitting by establishing a common reporting system for planned activities likely to produce impulsive noise. Improve regional and cross-border coordination of the spatio-temporal planning and permitting by establishing a common reporting system for planned activities likely to produce impulsive noise. Further specification This constitutes an extension of the impulsive noise registry to include future activities that are currently only recorded after they occurred. Main outcome Regional planning tool for permitting and reporting planned activities Sequential task description Responsible Contribution from Begin date Due date Milestone 1) Organize a workshop to plan a pilot project Lead(s): EG Noise First half of 2024 Second half of 2024 2) Fund and consider co-leading. Germany and Demmark to consider co-leading. TBD based on the outcome of the workshop workshop 2) Fund and conduct pilot project for example in the Arkona Basin towards a planning tool for the regional level Secretariat TBD based on the workshop on the outcome of the workshop 10 workshop Secretariat TBD based on the on the outcome of the workshop on the on the outcome of the workshop on the	Contact person								
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planning tool for the regional level TBD based on the	-			workshop					
the regional level TBD based 3) Establish a on the	towards a								
level TBD based 3) Establish a TBD based regional on the									
3) Establish a TBD based on the	-								
regional on the									
planning tool Outcome of	-								
the persible	planning tool								
the possible project				-					

Links: Depends on action 5 (impact indicator)

Lead country	Finland to contribute								
Date	11 March 2024								
Contact person									
Affiliation									
E-mail									
Code of action	9								
Action	Improve prote	ection of areas, whic	h have alread	y been defined	l as important				
	or critical habi	tat for noise sensitiv	ve species, by	obligating the	adoption of				
	adequate ope	rational and technic	al noise mitiga	ation measures	S.				
Further	HELCOM (201	9) already identified	a number of i	important area	as which are				
specification	important for	noise sensitive spec	ies (such as th	e core habitat	of the critically				
	endangered h	arbour porpoise pop	oulation of the	Baltic proper	or spawning				
	areas of fishes	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	ot required in other	r 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 description	Responsible	Contribution from	Begin date	Due date	Milestone				
1) Identify and	EG Noise	EG MaMa	Following						
agree on	WG Sea-	EG MPA	completion						
appropriate	based	WG BioDiv	of Action 6						
mitigation	pressures								
measures for									
different activities	Leads tbd	EG-Noise							
2) Prepare and submit HELCOM	Leads too upon	Secretariat							
		JELIELAIIAL		1	1				
Recommendations									
Recommendations for individual types	completion of task 1)								

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	Denmark (Lea	Denmark (Lead) and Germany (Co-Lead)						
Date	29 October 20	24						
Contact person	Martin Nielser	n (DK), Carina Juretzei	k (DE)					
Affiliation	Danish Enviror	nment Protection Age	ncy, BSH					
E-mail	martn@mstdk	, <u>Carina.Juretzek@bs</u>	h.de					
Code of action	10							
Action		and behavioural dist COM criteria for injury		•				
Further specification	established un	and exposure limits a ider point 4, but are o vities generating imp	operational crit					
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 Secretaria	The Secretariat to lead in cooperation with joint contact group of HELCOM a					
	OSPAR represe	OSPAR representatives					
Date	11 March 202	4					
Contact person							
Affiliation							
E-mail							
Code of action	11						
Action	Improving acc	essibility and sharing	g of monitorin	g data by oper	ationalisation of		
	the common o	database for monito	ring data on co	ntinuous unde	erwater noise		
Further	As decided by	HOD 55-2019 and ir	nplemented b	y database hos	sted by ICES.		
specification				-			
Main outcome	Improved regu	ular uploading of nat	ional monitori	ing data to dat	abase		
Sequential task	Responsible	Contribution from	Begin date	Due date	Milestone		
description	Responsible	Contribution from	Deginuate	Due date	winestone		
1) Review	Secretariat	EG Noise	October	Meeting	Regular		
experience to		OSPAR ICG Noise	2024 (joint	held	meetings with		
date on the database on			HELCOM EG Noise		OSPAR on the		
continuous noise					topic		
continuous noise			/OSPAR ICG Noise				
			session)				
2) Agree on	Lead:	EG-Noise	Continuous	Continuous	Connection		
changes/updates	Denmark,	OSPAR	activity	activity	with action 12		
to the database	Germany	Joint contact					
to the database on continuous	Germany [and Sweden]	Joint contact group made up of					
on continuous		group made up of					
on continuous noise,		group made up of representatives from both HELCOM and					
on continuous noise, coordinated with		group made up of representatives from both					

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>.

	1								
Lead country	Lead needed								
Date	11 March 202	11 March 2024							
Contact person									
Affiliation									
E-mail									
Code of action	12								
Action	Development of common guidelines for reporting of continuous								
	in the Baltic Se	-		8 01 00110110					
Further		in progress in conne	ction to establ	lishment of	common				
specification	database host				common				
Main outcome		elines for reporting	of continuous	noico lovalo	in the Poltic Sea				
	Common guid	ennes for reporting							
Sequential task	Responsible	Contribution from	Begin date	Due date	Milestone				
description	Lood	FC Noise	02 2024	04 2024	Boview				
1) Review	Lead	EG Noise	Q3 2024	Q4 2024	Review conducted				
experience from HOLAS 3 (lack of					conducted				
•									
spatial coverage in certain areas)									
and elsewhere									
(incl. OSPAR)									
2) Contribute to			Q3 2024	Q4 2024	EG Noise				
evaluation by TG-			Q5 2024	Q4 2024	members are				
Noise					part of the				
NOISE					dedicated				
					subgroup on				
					the topic within				
					TG Noise				
3) Identify	Lead	Secretariat	Q3 2024	Q4 2024	I G NOISE				
funding	Leau	CPs	Q5 2024	Q4 2024					
opportunities		CFS							
(consider									
document 5-4 to									
IC SEA-BASED									
PRESSURES 2-									
2023)									
-									
4) Conduct			2025	2025					
intercalibration									
events (consider									
document 5-4 to									
IC SEA-BASED									
PRESSURES 2-									
2023)	FC Noise	Lood	To be mode						
4) Update	EG Noise	Lead	To be made available for						
monitoring		Secretariat							
guidelines and		EU TG Noise	use at						
agree on			HOLAS 4						
guidelines for									
reporting of									
continuous noise									

Lead country	Lead needed				
Date	11 March 2024	1			
Contact person	11 1/10/11/2024	ł			
Affiliation					
E-mail					
Code of action	13				
Action	-	nal coordination an	-		
		ablishing a commor		k for modelling	g past,
	•	ture noise levels in			
Further specification	Continuation of the Soundscape planning tool developed under the BIAS project, as decided by HOD 55-2019 ¹ . Such modelling is base				
	• •	•		-	
		relevant informatio			
		spectra. Includes d			
		oats without AIS tra	insmitters a	is well as natui	ral ambient
	noise.				
Main outcome		oach for modelling			
	in the Baltic Se	a for the developm	-	onal assessmei	nts
Sequential task	Responsible	Contribution	Begin	Due date	Milestone
description		from	date		Devision is
1) Review experience from HOLAS 3 and	Lead	EG Noise; coordinate with			Revision is conducted
elsewhere (incl.		EU 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
					subgroup
					on the topic
					within TG
3) Provide a description of	EG-Noise	Lead	Aligned		Noise
a common approach for	LG-INDISE	LEau	with		
modelling past, present			HOLAS 4		
and future noise levels in			timeline		
the Baltic Sea enabling			_		
the development of					
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	CCP to take th	e lead of Task 1					
-							
Date	11 March 202	4					
Contact person							
Affiliation							
E-mail							
Code of action	14	14					
Action	Improve asses	mprove assessment of impact of continuous noise by identifying important					
	habitats and b	biologically sensitive	areas and per	iods in the Bal	tic Sea region,		
	vulnerable to	elevated levels of co	ntinuous nois	e.	-		
Further	Some informa	tion available (HELC	OM 2019). To	be amended I	based on		
specification		-	-				
		biological data and science-based criteria and in cooperation with other HELCOM working and expert groups (such as EG-MAMA).					
Main outcome		p on noise sensitive s					
Sequential task							
description	Responsible	Contribution from	Begin date	Due date	Milestone		
1) Joint workshop	Lead	EG-Noise					
(on impulsive and	country/host	EG MaMa					
(on impulsive and continuous noise	country/host Secretariat						
continuous noise related to action		EG MaMa					
continuous noise related to action 2, 14 and 24) with		EG MaMa WG BioDiv					
continuous noise related to action 2, 14 and 24) with EG-MAMA, WG		EG MaMa WG BioDiv					
continuous noise related to action 2, 14 and 24) with EG-MAMA, WG BioDiv and WG-		EG MaMa WG BioDiv					
continuous noise related to action 2, 14 and 24) with EG-MAMA, WG BioDiv and WG- FISH (in person,		EG MaMa WG BioDiv					
continuous noise related to action 2, 14 and 24) with EG-MAMA, WG BioDiv and WG- FISH (in person, jointly)	Secretariat	EG MaMa WG BioDiv WG Fish					
continuous noise related to action 2, 14 and 24) with EG-MAMA, WG BioDiv and WG- FISH (in person, jointly) 2) Identify and		EG MaMa WG BioDiv WG Fish Lead country					
continuous noise related to action 2, 14 and 24) with EG-MAMA, WG BioDiv and WG- FISH (in person, jointly)	Secretariat	EG MaMa WG BioDiv WG Fish					

Links: action 2.

11 March 2024					
15					
stablishment	of a common metho	odology for as	sessment of im	pact of	
ctivities gene	rating continuous no	oise.			
pplies to for e	example shipping, of	ffshore wind f	arms, offshore	installations,	
onstruction w	orks (other than pile	e driving and s	similar impulsiv	ve sources) and	
ffshore infras	tructure, etc.				
uidelines for	assessment of impa	ct of activities	generating co	ntinuous noise.	
esponsible	Contribution from	Begin date	Due date	Milestone	
ead	EG Noise	Q4 2025	Q2 2026		
ead	EG NOISE	•	•		
		tentatively	tentatively		
	tablishment tivities generory oplies to for e onstruction w fshore infras uidelines for esponsible	itablishment of a common metho stivities generating continuous no oplies to for example shipping, of onstruction works (other than pile fshore infrastructure, etc. uidelines for assessment of impa esponsible Contribution from ad EG Noise	itablishment of a common methodology for associativities generating continuous noise. Soplies to for example shipping, offshore wind from struction works (other than pile driving and softshore infrastructure, etc. Juidelines for assessment of impact of activities Soponsible Contribution from Begin date ad EG Noise Q4 2025	itablishment of a common methodology for assessment of im trivities generating continuous noise. oplies to for example shipping, offshore wind farms, offshore onstruction works (other than pile driving and similar impulsiv fshore infrastructure, etc. uidelines for assessment of impact of activities generating con esponsible Contribution from Begin date Due date ad EG Noise Q4 2025 Q2 2026 ad EG Noise Q3 2026 Q4 2026	

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.

Land same	Demonstrative						
Lead country	Denmark tbc						
Date	11 March 202	4					
Contact person							
Affiliation							
E-mail							
Code of action	16						
Action	Further develo	Further develop the HELCOM continuous low-frequency noise pre-core					
	indicator towa	indicator towards an operational core indicator.					
Further	This includes of	This includes development of methods to assess environmental status based on					
specification	the indicator (the indicator (action 15) as well as definition of thresholds and targets.					
Main outcome	HELCOM core	indicator continuou	s low-frequency	/ noise			
Sequential task description	Responsible	Contribution from	Begin date	Due date	Milestone		
1) Identify gaps preventing acceptance as CORE indicator	Secretariat		Q4 2023	Q4 2023	Review conducted		
2) Evaluate HOLAS 3 assessment	Lead country	EG Noise	Q2 2024	Q3 2024			
3) Update indicator report	EG Noise	Lead country	In alignment with HOLAS 4	In alignment with HOLAS 4			

Lead country	Donmark /Co					
Leaa country	Denmark (Co-Lead) (Contributions by Estonia and Sweden)					
Date	5.11.2024	by Estoria and Swed				
Contact person	Kim Lundgree	n				
Affiliation	Danish Environmental Protection Agency					
E-mail	kilun@mst.dk					
Code of action	17					
Action	17 Increase the knowledge and encourage data sharing on impact of noise by supporting					
	research on sources and effects of continuous noise on marine biota					
Further	Impact studies as detailed in the HELCOM science agenda. Encourage exchange					
specification	· ·	rmation about continu		•		
		pectrum characteristi		-,,	0	
		to action S57b) in the				
		-		any of yoscal cla	u down	
	-	supporting pilot proje other operational me				
	-	end of 2026. Results of				
		anization (IMO) for fol			iternational	
	_					
Main outcome		contribute to scientifi		e discussions and	decisions	
	regarding nois	e reducing actions an	d programmes			
Sequential task description	Responsible	Contribution from	Begin date	Due date	Milestone	
1) Specific	DK	SE, EE	12/2020	04/2024	Report shared	
research project		- /			with EG Noise	
on re-routing in					and Sea-based	
Kattegat					Pressures to	
(TANGO). The					support further	
project investigates how					work on the subject	
splitting a big					Subject	
shipping route						
into two smaller						
affects						
surrounding noise levels and harbor						
porpoise activity.						
2) Investigation	SE	SE	11/2022	08/2023	Report published	
into potential	-				and shared with	
policy measures					EG NOISE & ICG	
that the Swedish					NOISE:	
authorities could					Management	
adopt to lower URN, including					<u>measures to</u> <u>reduce</u>	
speed					continuous	
restrictions. The					underwater	
report presents					noise from	
an					shipping	
interdisciplinary						
analysis using a case study of an						
area in the						
southern Kattegat						
with a shipping						
lane and						
significant						
conservation value.						
value.	1	1	1	1		

3) Regular updates to Sea- based pressures Working Group on national and international research activities contributing to this action	All Contracting Parties	All Contracting Parties	Continuous	Continuous	Updated information on research activities available.
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Lead country	Lead needed.						
Leuu country		Estonia to support.					
		Sweden to support work on other relevant species groups different from marine					
	mammals.						
		Finland may be 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	6), but with the i	nclusion of		
specification	information al	bout 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	Responsible	Contribution from	Degin date	Due date	whiestone		
1) Evaluate	Lead	EG Noise	Q3 2024	Q1 2025			
HOLAS 3 and							
guidance from							
EU 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		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 HOLAS 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 Heitmüller and Nicole Heibeck							
Affiliation	Federal Mariti	Federal Maritime and Hydrographic Agency (BSH)						
E-mail		susanne.heitmueller@bsh.de and nicole.heibeck@bsh.de						
Code of action	19							
Action	measures to re guidelines on continuous no	Expand and improve the existing and potential operational and technical measures to reduce the impact of continuous noise to form a basis for common guidelines on management. Suitable technical measures to reduce input of continuous noise should be identified (BAT/BEP), based on a scientific justification, and taking into account socioeconomic impacts.						
Further specification		ion through research		Collection of experience from HELCOM members and abroad and collection of new information through research and development, as detailed in the				
Main outcome	Management Guidelines and BAT/BEP							
	Management	Guidelines and BAT	/BEP					
Sequential task description	Management Responsible	Guidelines and BAT/ Contribution from	BEP Begin date	Due date	Milestone			
				Due date March 2024	Milestone Project Report -> Inventory of mitigation measures			

Lead country	Load pooded	Sweden considering	loading				
Lead country		from CCB in connect	-	t project on m	itiaation		
	measures.		lion with a pil	η μισμέςς στη πη	ligation		
		ny likaly contribute					
Dete		ry likely contribute.					
Date	11 March 2024						
Contact person							
Affiliation							
E-mail							
Code of action	20						
Action	Reduction of e	elevated continuous	noise levels in	noise sensitive	e and		
	biologically im	portant areas in the	Baltic Sea by	adoption of gui	delines on		
	management,	based on the "HELC	OM input to t	he establishme	nt of		
	environmenta	I targets for underw	ater noise" (2	018). The envir	onmental		
	targets for un	derwater noise shou	Ild take into ad	count the targ	et values set by		
	TG Noise at El	J level		_	-		
Further	Implementatio	on of knowledge gai	ned under act	ion 19.			
specification							
Main outcome	Management	guidelines (possible	HELCOM Reco	ommendation)	on continuous		
	noise in noise	sensitive and biolog	ically importa	nt areas in the	Baltic Sea.		
Sequential task	Responsible	Contribution from	Begin date	Due date	Milestone		
description	Responsible	Contribution from	Deginuate	Due uate	whiestone		
1) Evaluate	Lead		Q4 2024	Q1 2025			
results of action	Lead		Q4 2024	Q1 2025			
results of action 19 and pilot	Lead		Q4 2024	Q1 2025			
results of action 19 and pilot studies							
results of action 19 and pilot studies 2) Evaluate IMO	Lead	EG Noise	Q4 2024 Q4 2024	Q1 2025 Q4 2026			
results of action 19 and pilot studies 2) Evaluate IMO guidelines and		EG Noise Maritime WG					
results of action 19 and pilot studies 2) Evaluate IMO guidelines and applicability to							
results of action 19 and pilot studies 2) Evaluate IMO guidelines and applicability to Baltic bearing in							
results of action 19 and pilot studies 2) Evaluate IMO guidelines and applicability to Baltic bearing in mind its							
results of action 19 and pilot studies 2) Evaluate IMO guidelines and applicability to Baltic bearing in mind its experience							
results of action 19 and pilot studies 2) Evaluate IMO guidelines and applicability to Baltic bearing in mind its experience building phase							
results of action 19 and pilot studies 2) Evaluate IMO guidelines and applicability to Baltic bearing in mind its experience building phase and, if relevant,							
results of action 19 and pilot studies 2) Evaluate IMO guidelines and applicability to Baltic bearing in mind its experience building phase and, if relevant, inform IMO							
results of action 19 and pilot studies 2) Evaluate IMO guidelines and applicability to Baltic bearing in mind its experience building phase and, if relevant,							
results of action 19 and pilot studies 2) Evaluate IMO guidelines and applicability to Baltic bearing in mind its experience building phase and, if relevant, inform IMO accordingly	Lead	Maritime WG	Q4 2024	Q4 2026			
results of action 19 and pilot studies 2) Evaluate IMO guidelines and applicability to Baltic bearing in mind its experience building phase and, if relevant, inform IMO accordingly 3) Conduct	Lead	Maritime WG	Q4 2024	Q4 2026			
results of action 19 and pilot studies 2) Evaluate IMO guidelines and applicability to Baltic bearing in mind its experience building phase and, if relevant, inform IMO accordingly 3) Conduct workshops with	Lead	Maritime WG	Q4 2024	Q4 2026			
results of action 19 and pilot studies 2) Evaluate IMO guidelines and applicability to Baltic bearing in mind its experience building phase and, if relevant, inform IMO accordingly 3) Conduct workshops with stakeholders to	Lead	Maritime WG	Q4 2024	Q4 2026			
results of action 19 and pilot studies 2) Evaluate IMO guidelines and applicability to Baltic bearing in mind its experience building phase and, if relevant, inform IMO accordingly 3) Conduct workshops with stakeholders to establish	Lead	Maritime WG	Q4 2024	Q4 2026			
results of action 19 and pilot studies 2) Evaluate IMO guidelines and applicability to Baltic bearing in mind its experience building phase and, if relevant, inform IMO accordingly 3) Conduct workshops with stakeholders to establish consensus on regulation 4) Write and	Lead	Maritime WG	Q4 2024	Q4 2026			
results of action 19 and pilot studies 2) Evaluate IMO guidelines and applicability to Baltic bearing in mind its experience building phase and, if relevant, inform IMO accordingly 3) Conduct workshops with stakeholders to establish consensus on regulation	Lead	Maritime WG Secretariat	Q4 2024	Q4 2026 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	Lead needed.					
		e lead of Task 1 in co	nnection with	a nilot project o	on mitigation	
	-	vell as on material to			-	
	funding availa		waras raising	awareness, aep		
		ry likely contribute.				
Date	11 March 202					
Contact person						
Affiliation						
E-mail						
Code of action	21					
Action	Inciting nation	al and voluntary act	ions with respe	ect to raising av	wareness of ship	
	and boat oper	ators and cooperation	on with shippir	ng companies a	nd boat owners	
	on speed man	agement for their ve	essels including	different aspe	ects of adjusting	
	and planning f	or vessel speed and	engine load op	otimised for the	e reduction of	
	underwater no	oise.				
Further	This can includ	le installing monitor	ing systems at	strategic locati	ions (for	
specification	example at ou	ter approaches to po	orts) with real-	time feedback	to the ship's	
	crew, to raise	awareness and to ai	d in optimizing	vessel and eng	gine operations	
	for reduced ur	nderwater noise radi	ation.			
Main outcome	Information ma	terial inciting nationa	al and voluntar	y actions to rea	duce	
	underwater no	oise		-		
Sequential task	Responsible	Contribution from	Begin date	Due date	Milestone	
description					Willestone	
1) Workshop to	ССВ	CPs	Q3 2024	Q4 2024		
1) Workshop to identify the type	CCB considering					
1) Workshop to identify the type of material	ССВ					
1) Workshop to identify the type of material needed to raise	CCB considering					
1) Workshop to identify the type of material needed to raise awareness	CCB considering					
1) Workshop to identify the type of material needed to raise	CCB considering					
1) Workshop to identify the type of material needed to raise awareness depending on the targeted stakeholders and	CCB considering					
1) Workshop to identify the type of material needed to raise awareness depending on the targeted stakeholders and sharing of	CCB considering					
1) Workshop to identify the type of material needed to raise awareness depending on the targeted stakeholders and sharing of national	CCB considering					
1) Workshop to identify the type of material needed to raise awareness depending on the targeted stakeholders and sharing of national experiences (e.g.	CCB considering					
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	CCB considering					
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,	CCB considering					
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	CCB considering					
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				
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) 2) Develop information material inciting	CCB considering leading	CPs				
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) 2) Develop information material inciting national and	CCB considering leading	CPs				
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) 2) Develop information material inciting national and voluntary actions	CCB considering leading	CPs				
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) 2) Develop information material inciting national and voluntary actions to reduce	CCB considering leading	CPs				
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) 2) Develop information material inciting national and voluntary actions to reduce underwater	CCB considering leading	CPs				
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) 2) Develop information material inciting national and voluntary actions to reduce underwater noise, including	CCB considering leading	CPs				
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) 2) Develop information material inciting national and voluntary actions to reduce underwater	CCB considering leading	CPs				

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.

I and according	1						
Lead country	Lead needed						
Date	11 March 202	11 March 2024					
Contact person							
Affiliation							
E-mail							
Code of action	22						
Action	Enhance Baltion	Enhance Baltic Sea wide cooperation of port authorities to introduce nove					
	initiatives, suc	h as harbour fee sys	tems, in order	to set incer	tives for		
		, et vessel operation.					
Further	, ,	ncouver (2017), ECH	O Program				
specification							
Main outcome	Implementation	n plan for port authori	ties to introdu	ce initiatives	towards		
	voluntary quie	et vessel operations.					
Sequential task	Descentible	Contribution from	Desir data	Due date	Milestone		
description	Responsible	Contribution from	Begin date	Due date	willestone		
1) Conduct a	Lead	Secretariat	Q1 2025	Q2 2025			
stakeholder		EG Noise					
workshop to		Maritime WG					
share the							
Vancouver							
experience							
2) Define areas in	CPs	Lead	Q2 2025	Q3 2026			
the Baltic Sea and		EG Noise					
conduct pilot		Maritime WG					
studies in these							
areas							
3) Draft	Lead	EG Noise					
implementation		Maritime WG					
plan /							
management recommendations							

Lead country	Lead needed						
Date	11 March 202	4					
Contact person							
Affiliation							
E-mail							
Code of action	23	23					
Action	ecosystems bu	Identification of other noise sources with significant impact on the marine ecosystems but not covered by the measures targeting impulsive and continuous noise					
Further	This includes,	but is not limited to,	sources with	main energy a	above 10 kHz:		
specification		, military and non-m					
		ydroacoustic instrur	•		,		
Main outcome	1 0 /						
Sequential task description	Responsible	Contribution from	Begin date	Due date	Milestone		
1) Review sources (document prepared by EG Noise and submitted to IC Sea-based pressures session	Lead	EG Noise	Q2 2024	Q3 2024	Living document to be prepared for the IC RAP NOISE 2-2024		

	1				
Lead country	CCB to take the lead of Task 1.				
	Finland can very likely contribute				
Date	11 March 2024	4			
Contact person					
Affiliation					
E-mail					
Code of action	24				
Action	in the Baltic Se	of important habitat ea region, vulnerable hose covered by exis	to elevated le	vels of noise fr	•
Further specification		ogical data and scient 1 working and expert		•	eration with
Main outcome					
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, WG- FISH, HELCOM VASAB-MSP WG (in person, jointly)	Lead country/host Secretariat	EG-Noise EG MaMa WG BioDiv WG Fish HELCOM VASAB- MSP WG	Workshop during second half of 2024		
2) Identify and fund dedicated projects	CPs	Lead country EG-Noise SAMBAH 2 project			

Lead country	Sweden to lea	d.					
		-	tion with a nild	ot project on m	itiaation		
	measures.	Possible input from CCB in connection with a pilot project on mitigation					
		Finland can very likely contribute					
Date	6 November 2	, ,					
	o November 2	024					
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	commendations for r	oise caused by	leisure boats.			
Sequential task	Responsible	Contribution from	Regin date	Due date	Milestone		
description	Responsible	Contribution from	Begin date	Due date	Milestone		
description 1) Undertake a	Responsible Lead	Contribution from EG Noise	Begin date tbd	Due date tbd	Milestone		
description 1) Undertake a project to review					Milestone		
description 1) Undertake a project to review and produce new					Milestone		
description 1) Undertake a project to review and produce new information on					Milestone		
description 1) Undertake a project to review and produce new information on the potential					Milestone		
description 1) Undertake a project to review and produce new information on the potential impact of noise					Milestone		
description 1) Undertake a project to review and produce new information on the potential impact of noise caused by leisure					Milestone		
description 1) Undertake a project to review and produce new information on the potential impact of noise caused by leisure boats		EG Noise	tbd	tbd	Milestone		
description 1) Undertake a project to review and produce new information on the potential impact of noise caused by leisure boats 2) Develop					Milestone		
description 1) Undertake a project to review and produce new information on the potential impact of noise caused by leisure boats 2) Develop management		EG Noise	tbd	tbd	Milestone		
description1) Undertake aproject to reviewand produce newinformation onthe potentialimpact of noisecaused by leisureboats2) Developmanagementrecommendations,		EG Noise	tbd	tbd	Milestone		
description 1) Undertake a project to review and produce new information on the potential impact of noise caused by leisure boats 2) Develop management		EG Noise	tbd	tbd	Milestone		
description 1) Undertake a project to review and produce new information on the potential impact of noise caused by leisure boats 2) Develop		EG Noise	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	4			
Contact person					
Affiliation					
E-mail					
Code of action	26				
Action	Development under measure	of HELCOM indicator e 23.	s suitable for m	onitoring noise s	ources identified
Further specification	-	tors cover impulsive s not include echoso			
Main outcome					
Sequential task description	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 202	11 March 2024					
Contact person							
Affiliation							
E-mail							
Code of action	27						
Action		of common guidelin her sources not cove			chosounders,		
Further	Such as to app	ly to environmental	impact assess	ments (EIAs) an	d assessment of		
specification	environmenta	l status (GES).					
Main outcome							
Sequential task description	Responsible	Contribution from	Begin date	Due date	Milestone		
Contracting Parties to provide information on these projects to the Secretariat				Continuous			
To review the information	1						

Lead country	Denmark (Co-L	_ead)				
Date	5.11.2024					
Contact person	Kim Lundgreer	า				
Affiliation	Danish Enviror	mental Protection Ag	gency			
E-mail	kilun@mst.dk					
Code of action	28					
Action	Support for res	search on pressure ar noise sources.	nd impact from	echosounders ar	nd other low-level,	
Further specification	pressures from activities/vesse assessment of	As detailed in the HELCOM science agenda regarding improved knowledge of pressures from sources currently not monitored, such as recreational activities/vessels, echosounders, sonars and sub-bottom profilers, to support assessment of impact both on small scale (EIAs on specific projects) and large scale (sub-basin scale).				
	Action related	to action S57c) in the	BSAP:			
	environment; s limitations and fish-finders. Ba implementing establishing a bodies and aim underwater no sounders and f	By 2027 Mapping the contribution of recreational craft to the noise in the marine environment; supporting studies on efficiency of mitigation measures, such as speed limitations and time-area restrictions; and studies on impact from echo sounders and fish-finders. Based on available evidence and new results, developing guidelines for implementing regulation to reduce impact on sensitive species. Simultaneously, establishing a discussion with the industry and relevant international standardization bodies and aiming at developing industry or/and application standards for underwater noise emissions of engines with respect to recreational craft echo- sounders and fish finders, which can be utilized in national regulation of activities in marine protected areas (MPAs) and other noise sensitive areas in the Baltic Sea.				
Main outcome	sources, that a	ributions to increase re not monitored. Th ow to account for oth	is will feed into	and enable pote		
Sequential task description	Responsible	Contribution from	Begin date	Due date	Milestone	
1) Research pilot project aiming to quantify the pressure from echosounders as measured at Danish noise monitoring stations. The pilot project has been initiated.	DK		07/2022	12/2024	Report shared with EG Noise and Sea-based pressures to support further work on the subject	
2) Regular updates to Sea- based pressures Working Group on national and international research activities contributing to this action	All Contracting Parties	All Contracting Parties	Continuous	Continuous	Updated information on research activities available.	

Lead country							
Date	11 March 202	11 March 2024					
Contact person							
Affiliation							
E-mail							
Code of action	29						
Action	agreeing on co	Reduce the impact from acoustic deterrent devices by developing and agreeing on common guidelines and regulation of the design and use of deterrent devices					
Further	Action propos	ed for BSAP update					
specification							
Main outcome							
Sequential task	Responsible	Contribution from	Begin date	Due date	Milestone		
description	Responsible	contribution from	Deginaate	Buc uute	Willestone		
1) Review national guidelines and empirical evidence in cooperation with WG Fish (responsible for the implementation	Lead	EG Noise					

Lead country	The Secretaria	t assisted by German	NV				
Date	4.11.2024		<i>y</i>				
Contact person	-	d Susanne Heitmüller	~				
Affiliation				hic Agancy			
E-mail	Secretariat and Federal Maritime and Hydrographic Agency marta.ruiz@helcom.fi; Susanne.Heitmueller@bsh.de						
	30						
Code of action							
Action	Strengthen coordination with IMO on the development of actions, as appropr to reduce underwater noise from commercial shipping and cooperate with ot						
		relevant actors as needed in the development of technical and operational					
		duce such noise in lir					
Further		t is not limited to, dis			· ·		
specification	-	as on shipping's cont			•		
		oise on marine specie					
		egulate the emission			al or restricted to		
	sensitive areas	s) without compromise	sing navigation	al safety.			
	Discuss feasibi	lity of systems provid	ding real-time f	eedback to brid	ge about noise		
	emissions fron	n the ship.					
Main outcome							
Sequential task	Descripto	Contribution	Destin data	Due dete	B.d:La starts		
description	Responsible	from	Begin date	Due date	Milestone		
1) Collection of	Contracting			2025	Documents		
lessons	parties				submitted to		
learned/best	•				MARITIME		
practices in the							
implementation of							
the revised IMO							
Guidelines							
2) Discussion of	HELCOM			2026	Feedback to		
submitted material	Secretariat			2020	contracting		
by EG-Noise and	Scoletanat				parties		
Maritime Working					parties		
Group							
•	Contracting			20264	Desuments		
3) Submission of	Contracting			20264	Documents		
3) Submission of lessons	Contracting Parties			20264	submitted to		
3) Submission of lessons learned/best	-			20264			
3) Submission of lessons learned/best practices in the	-			20264	submitted to		
3) Submission of lessons learned/best practices in the implementation of	-			20264	submitted to		
3) Submission of lessons learned/best practices in the implementation of the revised IMO	-			20264	submitted to		
3) Submission of lessons learned/best practices in the implementation of the revised IMO Guidelines to MEPC	-			20264	submitted to		
3) Submission of lessons learned/best practices in the implementation of the revised IMO Guidelines to MEPC 83-85	Parties				submitted to MEPC 83-85		
3) Submission of lessons learned/best practices in the implementation of the revised IMO Guidelines to MEPC 83-85 4) Keeping track of	Parties	Contracting	2025	2026 ⁴	submitted to MEPC 83-85		
3) Submission of lessons learned/best practices in the implementation of the revised IMO Guidelines to MEPC 83-85 4) Keeping track of the developments	Parties Germany and the	Contracting Parties	2025		submitted to MEPC 83-85 To be updated after the		
3) Submission of lessons learned/best practices in the implementation of the revised IMO Guidelines to MEPC 83-85 4) Keeping track of the developments and outputs of	Parties	-	2025		submitted to MEPC 83-85 To be updated after the conclusion of		
3) Submission of lessons learned/best practices in the implementation of the revised IMO Guidelines to MEPC 83-85 4) Keeping track of the developments	Parties Germany and the	-	2025		submitted to MEPC 83-85 To be updated after the		
3) Submission of lessons learned/best practices in the implementation of the revised IMO Guidelines to MEPC 83-85 4) Keeping track of the developments and outputs of	Parties Germany and the	-	2025		submitted to MEPC 83-85 To be updated after the conclusion of		
3) Submission of lessons learned/best practices in the implementation of the revised IMO Guidelines to MEPC 83-85 4) Keeping track of the developments and outputs of	Parties Germany and the	-	2025		submitted to MEPC 83-85 To be updated after the conclusion of the MEPC		
3) Submission of lessons learned/best practices in the implementation of the revised IMO Guidelines to MEPC 83-85 4) Keeping track of the developments and outputs of	Parties Germany and the	-	2025		submitted to MEPC 83-85 To be updated after the conclusion of the MEPC Experience		
3) Submission of lessons learned/best practices in the implementation of the revised IMO Guidelines to MEPC 83-85 4) Keeping track of the developments and outputs of	Parties Germany and the	-	2025		submitted to MEPC 83-85 To be updated after the conclusion of the MEPC Experience Building Phase		

⁴ The ultimate deadline is MEPC 85 but submission to MEPC 83 and 84 should be made earlier, if documents are available.

		of underwater
		radiated noise
		from shipping
		to address
		adverse
		impacts on
		marine life

This action is connected to actions 17, 19, 20, 21, 22 and 28; the link comes from the output from these actions which are of relevance to IMO.

Lead country	Germany to co	ntribute and CCB to c	o-lead					
Date	11 March 2024	11 March 2024						
Contact person								
Affiliation								
E-mail								
Code of action	31							
Action	and between a	orms to share best pro outhorities, the private	e sector and NG	O's. Improve pu	ublic awareness, so			
	•	ecision makers, local and the underwater noi		and civil society	y are adequately			
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 description	Responsible	Contribution from	Begin date	Due date	Milestone			
Share national experiences as we as other experiences to EG Noise and WG Sea-based pressures	All CPs		Q4 2024 (SBP 4-2024)	Continuous				
Evaluate how to build an online platform	All CPs		Q1 2025 (SBP 5-2025)	Q4 2025				

Lead country	No lead neede	No lead needed (Secretariats and Chair to lead)					
Date	11 March 202	4					
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	A Brussels decla	ration		
specification							
Main outcome							
Sequential task	Responsible	Contribution from	Begin date	Due date	Milestone		
description	Responsible	Contribution from	Degin uate	Due date	whilestone		
1) Conduct	EG-Noise	OSPAR ICG Noise	Continuous	Continuous	Joint meetings		
regular joint							
meetings,							
including ICES							

Lead country	No lead neede	No lead needed					
Date	11 March 202	4					
Contact person							
Affiliation							
E-mail							
Code of action	33						
Action		strengthen coopera ssues of mutual inte		uropean Union	expert group		
Further specification	· ·	o assure consistency for establishing thre	•		and criteria		
Main outcome							
Sequential task description	Responsible	Contribution from	Begin date	Due date	Milestone		
1) Assure exchange of information between representatives	CPs	Secretariat	Continuous	Continuous	EG Noise members are part of TG Noise		

Lead country	Lead needed.						
	Possible input	Possible input from CCB in connection with a pilot project on mitigation measures.					
	Finland may be	e able to contribute.					
Date	11 March 2024	4					
Contact person							
Affiliation							
E-mail							
Code of action	34						
Action	echosounders	pact from leisure boa and fishfinders with t echosounders, fishfin	he goal of intro	ducing standards	for noise		
Further	This aims for e	xample at installing o	n/relates to the	ability to turn of	f and adjust		
specification	source level ar	nd frequency of echos	ounders and fis	h-finders, as well	as developing		
	industry stand	ards for underwater n	oise 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.				
,	CCB to contribute. Finland can very likely contribute if the Aurora Interreg project is				
	granted				
Date					
Contact person					
Affiliation					
E-mail					
Code of action	35				
Action	Reduce the impact from underwater explosions in connection to munition clearance, by developing international guidelines for the safe removal and detonation of ammunition. The guidelines should be established through consultation with the Ministry of Defence of the Russian Federation and NATO and lead actions for use of noise mitigation technologies and operating practices in the Baltic Sea.				
Further	Initiate discussions on the use of noise mitigation measures, as well as informing				
specification	nature protection institutions about planned detonations and mitigation methods.				
	Including, but not limited to, discussions on deterrent measures, abatement				
	technologies, spatio-temporal planning of clearance operations in relation to				
	ecosystem sensitivity. Initiate discussions on feasibility of reducing the impact on				
	biota without compromising navigational safety.				
Main outcome			1		
Sequential task description	Responsible	Contribution from	Begin date	Due date	Milestone
1) Conduct		EG Submerged			
workshop with		Relevant projects			
representatives from national					
navies and other					
stakeholders					
stakeholders 2) Review					
2) Review empirical					
2) Review empirical evidence for					
2) Review empirical evidence for BAT/BEP and					
2) Review empirical evidence for BAT/BEP and national					
2) Review empirical evidence for BAT/BEP and					

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".