

Ministry of Environment, Waters and Forests

ROMANIA REPORT ON THE 2020 UPDATE OF ARTICLE 11 FOR THE MARINE STRATEGY FRAMEWORK DIRECTIVE

https://cdr.eionet.europa.eu/ro/eu/msfd art17/2
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MONITORING STRATEGY	D8 CONTAMINANTS
Description of the	Monitoring in transects perpendicular to coast, evenly distributed
monitoring strategy	and around hotspots. Variation in relation to risk across the area
	(coastal/offshore, pressure related);
Description of the gaps	Maintaining the continuity of contaminants monitoring.
and plans to complete	
the implementation of	
monitoring	
Monitoring	BLKRO-D8_PressureMarEnv_03
programmes that	
contribute to this	BLKRO-D8_PressureMarEnv_05
strategy	

MONITORING PROGRAMME	BLKRO-D8_PressureMarEnv_03 - Contaminant levels - in water/sediment			
Introduction/overview of programme	Heavy metals and organic pollutants (TPH, PAH, OCP, PCB) are measured in seawater (surface horizon), and sediment			
Purpose of programme	Pressures i	Pressures in the marine environment		
Other EU or international policies to which programme contributes	BSC Integra	ated Monitoring and Assessment Programme		
🥥 (2397) Roundcube Webmail :: Inb 🗙 \mid 附 Inbox (343	7) - andra.oros71@gma 🗙 🏻	🧿 ► Europa FM LIVE – Ascultă 📲 🗙 🌏 Reporting on MSFD Article 11 Prc 🗙 🕂 🦳 🛱 🗇	×	
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Image: A state of the state	Temporal Scope	2000-9999	^	
Reporter info	Spatial Scope	Territorial waters	l	
Monitoring Programmes	Marine Reporting Unit	BLK_RO_RG_MT01 BLK_RO_RG_CT BLK_RO_RG_TT03		
BLKRO-D8_PressureMarEnv_03 - Contaminant levels - in water/sediment	Monitoring Purpose	Pressures in the marine environment		
Contaminant levels - in water/sediment BLKRO-D8,9_PressureMarEnv_07 -	Monitoring Type	In-situ sampling coastal In-situ sampling offshore		
Contaminant levels - in species, including seafood	Monitoring Details			
BLKRO-D1,2,4,5,6_SeabedHabitats_08 - Seabed habitats - community characteristics	Monitoring Method	Other monitoring method		
BLKRO-D1,5,7_WaterColumn_01 - Water column – physical characteristics	Monitoring Method Other	IAEA-MEL (1995). Marine Environmental Studies Laboratory, Training Manual on the Measurement of Organochlorine and Petroleum Hydrocarbons in environmental samples; IAEA-MEL (1999). Standard operating procedures for trace metals analyses.		
BLKRO-D1,5,7_WaterColumn_03 - Water column – chemical characteristics	Quality Control	Certified References Material		
BLKRO-D1,4,5_WaterColumn_07 -	Monitoring		*	



Monitoring details				
Ecosystem	Contaminants - non UPBT substances			
components,	Elements Cadmium and its compounds			
anthropogenic	monitored	GES criteria	D8C1 Contami	nant in environment
pressures and activities		addressed	Parameters	Concentration in
monitored			monitored	water,
				Concentration in
				sediment (total)
		Chromium and	d its compound	S
		GES criteria	D8C1 Contami	nant in environment
		addressed	Parameters	Concentration in
			monitored	water,
				Concentration in
				sediment (total)
		Copper and its	s compounds	
		GES criteria	D8C1 Contami	nant in environment
		addressed	Parameters	Concentration in
			monitored	water,
				Concentration in
				sediment (total)
		Lead and its compounds		
		GES criteria	D8C1 Contami	Contaminant in environment
		addressed	Parameters	Concentration in
			monitored	water,
				Concentration in
				sediment (total)
		Nickel and its compounds		
		GES criteria	D8C1 Contami	nant in environment
		addressed	Parameters	Concentration in
			monitored	water,
				Concentration in
				sediment (total)
		Acenaphthene		
		GES criteria	D8C1 Contami	nant in environment
		addressed	Parameters	Concentration in
			monitored	water,
				Concentration in
				sediment (total)
		Acenaphtylene		
		GES criteria	D8C1 Contami	nant in environment
		addressed	Parameters	concentration in
			monitored	water,
				Concentration in
		Alahin		sediment (total)
		Aldrin		
			D8C1 Contami	nant in environment



GES criteria	Parameters	Concentration in
addressed	monitored	water,
		Concentration in
		sediment (total)
Anthracene	L	
GES criteria	D8C1 Contam	inant in environment
addressed	Parameters	Concentration in
	monitored	water.
	monitorea	Concentration in
		sediment (total)
Benz(a)anthra	cene	seament (total)
GES criteria	D8C1 Contam	inant in environment
addressed	Paramotors	Concontration in
audresseu	monitorod	water
	monitoreu	Concentration in
Character		seaiment (total)
Chrysene		
GES criteria	D8C1 Contam	inant in environment
addressed	Parameters	Concentration in
	monitored	water,
		Concentration in
		sediment (total)
DDT, p,p'		
GES criteria	D8C1 Contam	inant in environment
addressed	Parameters	Concentration in
	monitored	water,
		Concentration in
		sediment (total)
Dibenzo(a,h)a	nthracene	
GES criteria	D8C1 Contam	inant in environment
addressed	Parameters	Concentration in
	monitored	water,
		Concentration in
		sediment (total)
Dieldrin		· · · · /
GES criteria	D8C1 Contam	inant in environment
addressed	Parameters	Concentration in
	monitored	water.
	monitored	Concentration in
		sediment (total)
Endrin		
CES critorio	DOC1 Contor	inant in anvironment
des criteria	Daci Contam	
addressed	Parameters	Concentration in
	monitored	water,
		Concentration in
-		sediment (total)
Fluoranthene		
	D8C1 Contam	inant in environment
Fluoranthene	D8C1 Contam	sediment (total) inant in environment



	GES criteria	Parameters	Concentration in	
	addressed	monitored	water,	
			Concentration in	
			sediment (total)	
	Fluorene			
	GES criteria	D8C1 Contam	inant in environment	
	addressed	Parameters	Concentration in	
	addressed	monitored	water	
		monitoreu	Waler,	
			concentration in	
	Commo LICII /	Lindono)	sediment (total)	
		Linuarie)	inant in onvironment	
	GES criteria	Data to the total		
	addressed	Parameters	Concentration in	
		monitored	water,	
			Concentration in	
			sediment (total)	
	Hexachlorobe	nzene		
	GES criteria	D8C1 Contam	inant in environment	
	addressed	Parameters	Concentration in	
		monitored	water,	
			Concentration in	
			sediment (total)	
	Naphthalene			
	GES criteria	D8C1 Contam	inant in environment	
	addressed	Parameters	Concentration in	
		monitored	water,	
			Concentration in	
			sediment (total)	
	Non-dioxin like	e PCB (sum of 6	5 PCB: 28, 52, 101, 138,	
	153 and 180)			
	GES criteria	D8C1 Contam	inant in environment	
	addressed	Parameters	Concentration in	
		monitored	water,	
			Concentration in	
			sediment (total)	
	p,p'-DDD		, <i>,</i>	
	GES criteria	D8C1 Contam	inant in environment	
	addressed	Parameters	Concentration in	
		monitored	water	
		monicorea	Concentration in	
			codimont (total)	
	n n'-DDF			
	CES critoria	DQC1 Contam	inant in onvironment	
	addrossed	Doci Contam	Concontration in	
	auuresseu	monitored		
		monitored	water,	
			Concentration in	
			sediment (total)	
	Petroleum hyd	drocarbons		



	CEC ouitouio	DOC1 Contorn	in a stin a suite support		
	GES criteria	D8C1 Contaminant in environment			
	addressed	Parameters	Concentration in		
		monitored	water,		
			Concentration in		
			sediment (total)		
	Phenanthrene)			
	GES criteria	D8C1 Contam	inant in environment		
	addressed	Parameters	Concentration in		
	addressed	monitored	water		
		monitored	Concontration in		
			concentration in		
	D		sediment (total)		
	Pyrene				
	GES criteria	D8C1 Contam	inant in environment		
	addressed	Parameters	Concentration in		
		monitored	water,		
			Concentration in		
			sediment (total)		
	sum of p,p'-DI	DT (dichlorodip	henyltrichloroethane)		
	and the metal	polites p,p'-DD	D		
	(dichlorodiphe	envldichloroeth	nane) and p.p ² -DDE		
	(dichlorodiphe	, envldichloroeth	vlene)		
	(,			
	GES criteria	D8C1 Contam	inant in environment		
	addressed	Parameters	Concentration in		
		monitored	water,		
			Concentration in		
			sediment (total)		
	ΣΡΔΗ9· anthra	cene: henzo[a]	lanthracene:		
	henzo[ghi]ner	vlene: henzo[a	Invrene: chrysene:		
	fluoranthene:	indeno[1 2 3-c	dlovrene: ovrene:		
	nuoranthene,		ujpyrene, pyrene,		
			inont in on dear and		
	GES criteria	D&CI Contam	mant in environment		
	addressed	Parameters	Concentration in		
		monitored	water,		
			Concentration in		
			sediment (total)		
	Contaminan	ts - UPBT subs	tances		
Elements	Benzo(a)pyrer	ne			
monitored	GES criteria	D8C1 Contam	inant in environment		
	addressed	Parameters	Concentration in		
		monitored	water,		
			Concentration in		
			sediment (total)		
	Benzo(b)fluor	anthene			
	Denzo(b)ndon	D8C1 Contaminant in environment			



		GES criteria addressed Benzo(g,h,i)pe GES criteria addressed	Parameters monitored erylene D8C1 Contami Parameters monitored	Concentration in water, Concentration in sediment (total) nant in environment Concentration in water, Concentration in sediment (total)
		Benzo(k)fluora GES criteria addressed	anthene D8C1 Contami Parameters monitored	nant in environment Concentration in water, Concentration in
		l la mha ch la s		seaiment (total)
		Heptachlor		
		GES criteria addressed	D8C1 Contami Parameters monitored	Concentration in water, Concentration in sediment (total)
		Indeno(123-	cd)nyrene	Scament (total)
		GES criteria	D8C1 Contami	nant in environment
		addressed	Parameters monitored	Concentration in water, Concentration in sediment (total)
		PCB 118 (2.3'.4	4.4'.5-pentachl	orobiphenyl)
		GES criteria	D8C1 Contami	nant in environment
		addressed	Parameters monitored	Concentration in water, Concentration in sediment (total)
		Total PAHs (Be Benzo(k)fluora Indeno(1,2,3-c	enzo(a)pyrene, anthene, Benzo cd)pyrene)	Benzo(b)fluoranthene, (ghi)perylene,
		GES criteria	D8C1 Contami	nant in environment
		addressed	Parameters monitored	Concentration in water,
				Concentration in sediment (total)
Spatial zones monitored	Territorial wat	ers		
Start(and end) date of the programme	2000-99999			
Frequency of the monitoring	Yearly			



Type of monitoring	In-situ sampling coastal,
	In-situ sampling offshore
Indicators to which the	8.1 - Contaminants in enviroment
programme	
contributes	

MONITORING PROGRAMME	BLKRO-D8_PressureMarEnv_05 - Contaminant levels - in water/sediment			
Introduction/overview	Heavy meta	lls and organic po	ollutants (TPH, I	PAH, OCP, PCB) are
of programme	measured in seawater (surface horizon), and sediment			
Purpose of programme	Pressures in	the marine envi	ronment	
Other EU or	BSC Integra	ted Monitoring a	nd Assessment	Programme
international policies				
to which programme				
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<u>í</u>	Temporal Scope	2000-9999		
Reporter info	Spatial Scope	Territorial waters		
Monitoring Programmes	Marine Reporting Unit	BLK_RO_RG_TT03 BLK_RO_RG_CT BLK_RO_RG_MT01		
BLKRO-D8_PressureMarEnv_03 - Contaminant levels - in water/sediment BLKRO-D8_PressureMarEnv_05 -	Monitoring Purpose	Pressures in the marine environment	nt	
Contaminant levels - in water/sediment BLKRO-D8,9_PressureMarEnv_07 -	Monitoring In-situ sampling coastal Type In-situ sampling offshore			
Contaminant levels - in species, including seafood	Monitoring Details			
BLKRO-D1,2,4,5,6_SeabedHabitats_08 - Seabed habitats - community characteristics	Monitoring Method	Other monitoring method		
BLKRO-D1,5,7_WaterColumn_01 - Water column – physical characteristics	Monitoring Method Other	IAEA-MEL (1995). Marine Environm Organochlorine and Petroleum Hyd operating procedures for trace meta	nental Studies Laboratory, Training rocarbons in environmental samp als analyses.	g Manual on the Measurement of les; IAEA-MEL (1999). Standard
BLKR0-D1,5,7_WaterColumn_03 - Water column – chemical characteristics BLKR0-D1.4.5_WaterColumn_07 -	Quality Control	Certified Reference Material		
Monitoring details	Monitoring			
Ecosystem		Contaminants	s - non UPBT su	bstances
, components,				
anthropogenic				
pressures and activities	Elements	Cadmium and	its compound	S
monitored	monitored	GES criteria	D8C1 Contam	inant in environment
		addressed	Parameters	Concentration in
			monitored	sediment (total),
				Concentration in water
	Copper and its compounds		water	



GES criteria	D8C1 Contam	inant in environment		
addressed	Parameters	Concentration in		
	monitored	sediment (total).		
	monitorea	Concentration in		
		water		
Chromium an	d its compound			
CES critoria	Deci Contom	is		
GES Criteria	Datamatara			
addressed	Parameters			
	monitored	sediment (total),		
		Concentration in		
		water		
Lead and its c	ompounds			
GES criteria	D8C1 Contam	inant in environment		
addressed	Parameters	Concentration in		
	monitored	sediment (total),		
		Concentration in		
		water		
Nickel and its	compounds			
GES criteria	D8C1 Contam	inant in environment		
addressed	Parameters	Concentration in		
	monitored	sediment (total),		
		Concentration in		
		water		
Acenaphthen	e			
GES criteria	D8C1 Contam	inant in environment		
addressed	Parameters	Concentration in		
	monitored	sediment (total).		
		Concentration in		
		water		
Acenanhtylen	e	nater		
GES criteria	D8C1 Contam	inant in environment		
addressed	Parameters	Concentration in		
uuuresseu	monitored	sediment (total)		
	monitoreu	Concentration in		
		wator		
Aldrin		water		
	DOC1 Contorn	incatio continencet		
GES criteria	D8C1 Contam			
addressed	Parameters	Concentration in		
	monitored	sediment (total),		
		Concentration in		
		water		
Anthracene				
GES criteria	D8C1 Contam	inant in environment		
addressed	Parameters	Concentration in		
	monitored	sediment (total),		
		Concentration in		
		water		
Benz(a)anthra	icene			



GES criteria	D8C1 Contam	inant in environment	
addressed	Parameters Concentration in		
	monitored	sediment (total),	
		Concentration in	
		water	
Chrysene			
GES criteria	D8C1 Contam	inant in environment	
addressed	Parameters	Concentration in	
	monitored	sediment (total),	
		Concentration in	
		water	
DDT, p,p'			
GES criteria	D8C1 Contam	inant in environment	
addressed	Parameters	Concentration in	
	monitored	sediment (total),	
		Concentration in	
	nthun and a	water	
		inant in anvironment	
addrossed	Paramotors		
auuresseu	monitorod	concentration in	
	monitoreu	Concontration in	
		water	
Dieldrin	Watch		
GES criteria	D8C1 Contam	inant in environment	
addressed	Parameters	Concentration in	
	monitored	sediment (total).	
		Concentration in	
		water	
Endrin			
GES criteria	D8C1 Contam	inant in environment	
addressed	Parameters	Concentration in	
	monitored	sediment (total),	
		Concentration in	
		water	
Fluoranthene			
GES criteria	D8C1 Contam	inant in environment	
addressed	Parameters	Concentration in	
	monitored	sediment (total),	
		Concentration in	
Else se se s		water	
Fluorene	DQC1 Conterns	inant in any inana st	
GES criteria	Daci Contam	Concontration in	
addressed	monitored	concentration in	
	monitored	Concontration in	
Gamma LCL	(Lindano)	walei	



GES criteria	D8C1 Contam	inant in environment
addrossod	Parameters Concontration in	
audresseu	monitorod	concentration in
	monitored	sediment (total),
		Concentration in
		water
Hexachlorobe	nzene	
GES criteria	D8C1 Contam	inant in environment
addressed	Parameters	Concentration in
	monitored	sediment (total),
		Concentration in
		water
Naphthalene		
GES criteria	D8C1 Contam	inant in environment
addressed	Parameters	Concentration in
	monitored	sediment (total),
		Concentration in
		water
Non-dioxin lik	e PCB (sum of (6 PCB: 28. 52. 101. 138.
153 and 180)	(
GES criteria	D8C1 Contam	inant in environment
addressed	Parameters	Concentration in
	monitored	sediment (total)
	monitorea	Concentration in
		water
		water
CES critoria	DºC1 Contam	inant in anvironment
GES CITIEITA	Doci Contain	Concentration in
auuresseu	Parameters	
	monitored	Sediment (total),
		Concentration in
		water
p,p'-DDE		
GES criteria	D8C1 Contam	inant in environment
addressed	Parameters	Concentration in
	monitored	sediment (total),
		Concentration in
		water
Petroleum hy	drocarbons	
GES criteria	D8C1 Contam	inant in environment
addressed	Parameters	Concentration in
	monitored	sediment (total),
		Concentration in
		water
Phenanthrene	2	1
GES criteria	D8C1 Contam	inant in environment
addressed	Parameters	Concentration in
addressed	monitored	sediment (total)
	monitored	Concentration in
		wator
		walei



	Durana		
	CTC with i		
	GES criteria	D8C1 Contam	inant in environment
	addressed	Parameters	Concentration in
		monitored	sediment (total),
			Concentration in
			water
	sum of p,p'-D	DT (dichlorodip	henyltrichloroethane)
	and the metal	oolites p,p´-DD	D
	(dichlorodiphe	enyldichloroeth	nane) and p,p'-DDE
	(dichlorodiphe	enyldichloroeth	iylene)
	GES criteria	D8C1 Contam	inant in environment
	addressed	Parameters	Concentration in
		monitored	sediment (total),
			Concentration in
			water
	ΣPAH9: anthra	acene; benzo[a]anthracene;
	benzo[ghi]per	ylene; benzo[a]pyrene; chrysene;
	fluoranthene;	indeno[1,2,3-0	d]pyrene; pyrene;
	phenanthrene	2	
	GES criteria	D8C1 Contam	inant in environment
	addressed	Parameters	Concentration in
		monitored	sediment (total),
			Concentration in
			water
Contaminant	s - UPBT substa	nces	
Elements	Benzo(a)pyrer	ne	
monitored	GES criteria	D8C1 Contam	inant in environment
	addressed	Parameters	Concentration in
		monitored	sediment (total),
			Concentration in
			water
	Benzo(b)fluor	anthene	water
	Benzo(b)fluor GES criteria	anthene D8C1 Contam	water inant in environment
	Benzo(b)fluor GES criteria addressed	anthene D8C1 Contam Parameters	water inant in environment Concentration in
	Benzo(b)fluor GES criteria addressed	anthene D8C1 Contam Parameters monitored	water inant in environment Concentration in sediment (total),
	Benzo(b)fluor GES criteria addressed	anthene D8C1 Contam Parameters monitored	water inant in environment Concentration in sediment (total), Concentration in
	Benzo(b)fluor GES criteria addressed	anthene D8C1 Contam Parameters monitored	water inant in environment Concentration in sediment (total), Concentration in water
	Benzo(b)fluor GES criteria addressed Benzo(g,h,i)pe	anthene D8C1 Contam Parameters monitored	water inant in environment Concentration in sediment (total), Concentration in water
	Benzo(b)fluor GES criteria addressed Benzo(g,h,i)pe GES criteria	anthene D8C1 Contam Parameters monitored erylene D8C1 Contam	water inant in environment Concentration in sediment (total), Concentration in water inant in environment
	Benzo(b)fluor GES criteria addressed Benzo(g,h,i)pe GES criteria addressed	anthene D8C1 Contam Parameters monitored erylene D8C1 Contam Parameters	water inant in environment Concentration in sediment (total), Concentration in water inant in environment Concentration in
	Benzo(b)fluor GES criteria addressed Benzo(g,h,i)pe GES criteria addressed	anthene D8C1 Contam Parameters monitored erylene D8C1 Contam Parameters monitored	water inant in environment Concentration in sediment (total), Concentration in water inant in environment Concentration in sediment (total),
	Benzo(b)fluor GES criteria addressed Benzo(g,h,i)pe GES criteria addressed	anthene D8C1 Contam Parameters monitored erylene D8C1 Contam Parameters monitored	water inant in environment Concentration in sediment (total), Concentration in water inant in environment Concentration in sediment (total), Concentration in
	Benzo(b)fluor GES criteria addressed Benzo(g,h,i)pe GES criteria addressed	anthene D8C1 Contam Parameters monitored erylene D8C1 Contam Parameters monitored	water inant in environment Concentration in sediment (total), Concentration in water inant in environment Concentration in sediment (total), Concentration in water
	Benzo(b)fluor GES criteria addressed Benzo(g,h,i)pe GES criteria addressed Benzo(k)fluora	anthene D8C1 Contam Parameters monitored D8C1 Contam Parameters monitored	water inant in environment Concentration in sediment (total), Concentration in water inant in environment Concentration in sediment (total), Concentration in water



		GES criteria addressed Heptachlor GES criteria addressed	Parameters monitored D8C1 Contami Parameters monitored	Concentration in sediment (total), Concentration in water nant in environment Concentration in sediment (total), Concentration in water		
		Indeno(1,2,3,- GES criteria addressed	cd)pyrene D8C1 Contami Parameters monitored	inant in environment Concentration in sediment (total), Concentration in water		
		PCB 118 (2,3', GES criteria addressed	4,4',5-pentachl D8C1 Contami Parameters monitored	orobiphenyl) inant in environment Concentration in sediment (total), Concentration in water		
		Total PAHs (Benzo(a)pyrene, Benzo(b)fluorant Benzo(k)fluoranthene, Benzo(ghi)perylene, Indeno(1,2,3-cd)pyrene)				
		GES criteria addressed	D8C1 Contami Parameters monitored	Concentration in sediment (total), Concentration in water		
Spatial zones monitored	Territorial wat	ers				
Start(and end) date of the programme	2000-9999					
Frequency of the monitoring Type of monitoring	Yearly In-situ sampling coastal,					
Indicators to which the programme contributes	8.1 - Contaminants in enviroment					



MONITORING	D9 CONTAMINANTS IN SEAFOOD	
STRATEGY		
Description of the	Monitoring activities cover Romanian marine waters.	
monitoring strategy	Contaminant levels are assessed mainly in molluscs, sampled from	
	monitoring stations during research cruises.	
Description of the gaps	Expand number of samples and species monitored	
and plans to complete		
the implementation of		
monitoring		
Monitoring	BLKRO-D8,9_PressureMarEnv_07	
programmes that		
contribute to this		
strategy		

MONITORING PROGRAMME	BLKRO-D8,9_PressureMarEnv_07 - Contaminant levels - in species, including seafood		
Introduction/overview of programme	Monitoring activities cover Romanian marine waters. Contaminant levels are assessed mainly in mollusks, and data collected are useful for assessing the concentration of contaminants (bioaccumulation level) in species, including seafood, against regulated thresholds.		
Purpose of programme	Pressures in the marine environment		
Other EU or	Foodstuffs	Regulation,	
international policies to which programme contributes	BSC Integra	ated Monitoring and Assessment Programme	
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<u>í</u>	Temporal Scope	2005-9999	
Reporter info	Spatial Scope	Territorial waters	
Monitoring Programmes	Marine Reporting Unit	BLK_RO_RG_MT01	
BLKRO-D8_PressureMarEnv_03 - Contaminant levels - in water/sediment	Monitoring Purpose	Pressures in the marine environment	
BLKRO-D8_PressureMarEnv_05 - Contaminant levels - in water/sediment	Monitoring Type	In-situ sampling offshore	
BLKRO-D8,9_PressureMarEnv_07 - Contaminant levels - in species, including seafood	Monitoring Details		
BLKRO-D1,2,4,5,6_SeabedHabitats_08 - Seabed habitats - community	Monitoring Method	Other monitoring method	
BLKRO-D1,5,7_WaterColumn_01 - Water column – physical characteristics	Monitoring Method Other	IAEA-MEL (1995). Marine Environmental Studies Laboratory, Training Manual on the Measurement of Organochlorine and Petroleum Hydrocarbons in environmental samples; IAEA-MEL (1999). Standard operating procedures for trace metals analyses.	
BLKRO-D1,5,7_WaterColumn_03 - Water column – chemical characteristics	Quality Control	Certified reference materials	
BLKRO-D1,4,5_WaterColumn_07 -	Monitoring	Yearly	



Monitoring details					
Ecosystem	Contaminants – in seafood				
components,	Elements	Benzo(a)pyrer	ne		
anthropogenic	monitored	GES criteria	D9C1 Contam	inants in seafood	
pressures and activities		addressed	Parameters	CONC-B-Mytilus sp.	
monitored			monitored		
		Cadmium and	its compounds	6	
		GES criteria D9C1 Contaminants in seafood			
		addressed	Parameters	CONC-B-Mytilus sp.	
			monitored		
		Lead and its co	ompounds		
		GES criteria	D9C1 Contam	inants in seafood	
		addressed	Parameters	CONC-B-Mytilus sp.	
			monitored		
		Non-dioxin lik	e PCB (sum of 6	5 PCB: 28, 52, 101, 138,	
		153 and 180)	I		
		GES criteria	D9C1 Contam	inants in seafood	
		addressed	Parameters	CONC-B-Mytilus sp.	
			monitored		
Spatial zones	Territorial wat	ters			
monitored					
Start(and end) date of	2005-9999				
the programme					
Frequency of the	Yearly				
monitoring					
Type of monitoring	In-situ samplir	ng offshore			
Indicators to which the	9.1 - Contamii	nants in seafoo	d		
programme					
contributes					



MONITORING STRATEGY	D5 EUTROPHICATION
Description of the monitoring strategy	Monitoring in transects perpendicular on coast and on fix points, covering entire Romanian shelf, either waters strongly affected by the Danube's freshwater discharges and coastal activities or marine waters, less affected by human activities (to emphasize natural and climatic variability); monitoring on coastal fix station (Cazino Mamaia) starting with 1959, still ongoing, to assess trends based on long-term data series.
Description of the gaps	Improve assessment of variation in relation to risk across the area
and plans to complete	(pressure related);
monitoring	
Monitoring programmes that	BLKRO-D1,5,7_WaterColumn_03
contribute to this strategy	BLKRO-D1,4,5_WaterColumn_07
	BLKRO-D5_PressureMarEnv_02
	BLKRO-D1,2,4,5,6_SeabedHabitats_08
	BLKRO-D1,5,7_WaterColumn_01

MONITORING PROGRAMME	BLKRO-D1,2,4,5,6_SeabedHabitats_08 - Seabed habitats - community characteristics
Introduction/overview of programme	Monitoring activities related to the development of phytobenthic communities in coastal waters
Purpose of programme	Environmental state and impacts
Monitoring details	Data collected from the existing programmes are useful in the MSFD monitoring to assess the state of macroalgae and angiosperms communities and the state of seabed habitats.



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G Google 📑 Facebook 🎰 INTRANET MSFD 🥥	Roundcube Webma 💝 Rock FM	Europa FM LIVE – A Ye Common monitoring strategy	ouTube Music 🔝 Welcome to See	ing	» Other bookmarks		
Ê	Cooperation Implementation						
Papatas info	Temporal Scope	2009-9999					
Nepitering Decrements	Spatial Scope	Coastal waters (WFD)					
BLKRO-D8_PressureMarEnv_03 -	Marine Reporting Unit	BLK_RO_RG_CT					
BLKRO-D8 PressureMarEnv 05 -	Monitoring Purpose	Environmental state and impact	cts				
Contaminant levels - in water/sediment	Monitoring Type	In-situ sampling coastal					
BLKRO-D8,9_PressureMarErv_07 - Contaminant levels - in species, including seafood	Monitoring Details	Data collected from the existing programmes are useful in the MSFD monitoring to assess the state of macroalgae and angiosperms communities and the state of seabed habitats.					
BLKRO-D1,2,4,5,6_SeabedHabitats_08 - Seabed habitats - community	Monitoring Method HELCOM Recommendations and guidelines for benthic habitat monitoring in the Baltic Sea						
characteristics BLKRO-D1,5,7_WaterColumn_01 - Water column	Monitoring Method Other						
BLKRO-D1,5,7_WaterColumn_03 - Water	Quality Control	No validation of data					
column – chemical characteristics	Monitoring Frequency	Monitoring Frequency					
Fcosystem	Futrophicatio	Futrophication					
components.	Elements Benthic babitats - opportunistic macroalgae				ае		
anthropogenic	monitored	GES criteria D5C6 Opportunistic macroalgae of					
pressures and activities		addressed	benthic habita	ats	0		
monitored			Parameters	Biomass pro	roportion		
			monitored	of opportun	istic		
				snecies from	total		
				biomass (%)	riotai		
Contintants	Casatal			DIOITIASS (%)			
spatial zones	Coastal water	S (WFD)					
Ctart(and and) data of	2000 0000						
Start(and end) date of	2009-9999						
the programme							
Frequency of the	Yearly						
monitoring							
Type of monitoring	In-situ samplii	ng coastal					
Indicators to which the	5.6 - Opportu	nistic and perei	nnial species pi	roportion			
programme							
contributes							

MONITORING	BLKRO-D1,5,7_WaterColumn_01 - Water column – physical
PROGRAMME	characteristics
Introduction/overview	Monitoring in transects perpendicular on coast and on fix points,
of programme	covering entire Romanian shelf, either waters strongly affected by
	the Danube's freshwater discharges and coastal activities or
	marine waters, less affected by human activities (to emphasize
	natural and climatic variability);
Purpose of programme	Environmental state and impacts



Monitoring details

Data collected are useful to MSFD monitoring for assessing the physical characteristics of water column habitats and future trends under natural and climatic variability; data are usable in establishing/updating the environmental targets.

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Î	Scope	195	9-9999						Î
	Spatial Scope	Terr	itorial waters						
Reporter info	Marine Reporting Unit	BLK BLK	_RO_RG_CT _RO_RG_MT01						
BLKRO-D8_PressureMarEnv_03 - Contaminant levels - in water/sediment	Monitoring Purpose	Env	ironmental state and impacts						
BLKRO-D8_PressureMarEnv_05 - Contaminant levels - in water/sediment	Monitoring Type	Visu	al observation						
BLKRO-D8,9_PressureMarEnv_07 - Contaminant levels - in species, including seafood	Monitoring Details	Monitoring Data collected are useful to MSFD monitoring for assessing the physical characteristics of water column habitats and future trends under natural and climatic variability; data are usable in establishing/updating the environmental targets.							
BLKRO-D1,2,4,5,6_SeabedHabitats_08 - Seabed habitats - community characteristics	Monitoring HELCOM Recommendations and guidelines for benthic habitat monitoring in the Baltic Sea								
BLKRO-D1,5,7_WaterColumn_01 - Water column – physical characteristics	Monitoring Method Other								
BLKRO-D1,5,7_WaterColumn_03 - Water column – chemical characteristics	Quality Control	No	validation of data						ł
BLKRO-D1,4,5_WaterColumn_07 -	Monitoring Frequency	Yea	rly						Ŧ
Ecosystem	Eutrophicat	ior	า						
components,	Elements		Transparency						
anthropogenic	monitored		GES criteria	D5C4 Photic limit					
pressures and activities			addressed	Parameters	Transparen	су	of	-	
monitored				monitored	water				
Spatial zones	Territorial w	/at	ers						_
monitored									
Start(and end) date of	1959-9999								
the programme									
Frequency of the	Yearly								
monitoring									
Type of monitoring	Visual obser	rva	ition						
Indicators to which the	5.4 - Transp	ar	ency					-	
programme			·						
contributes									



MONITORING PROGRAMME	BLKRO-D1,5,7_WaterColumn_03 - Water column – chemical characteristics				
Introduction/overview	Monitoring in transects perpendicular on coast and on fix points,				
of programme	covering entire Romanian shelf, either waters strongly affected by				
	the Danube's freshwater discharges and coastal activities or				
	marine waters, less affected by human activities (to emphasize				
	natural and climatic variability); monitoring on coastal fix station				
	(Cazino Mamaia) starting with 1959, still ongoing, to assess				
	trends based on long-term data series.				
Purpose of programme	Environmental state and impacts				
Monitoring details	Data collected are useful to MSFD monitoring for assessing the				
	chemical characteristics of water column habitats and future				
	trends under natural and climatic variability; data are usable in				
	establishing/updating the environmental targets.				
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Reporter info	Temporal Scope	1959-9999
BLKRO-D8_PressureMarEnv_03 - Contaminant levels - in water/sediment	Spatial Scope	Territorial waters EEZ (or similar)
BLKRO-D8_PressureMarEnv_05 - Contaminant levels - in water/sediment	Marine Reporting Unit	BLK_RO_RG_CT BLK_RO_RG_MT01 BLK_RO_RG_TT03
Contaminant levels - in species, including seafood	Monitoring Purpose	Environmental state and impacts
BLKRO-D1,2,4,5,6_SeabedHabitats_08 - Seabed habitats - community characteristics	Monitoring Type	In-situ sampling coastal In-situ sampling offshore
BLKRO-D1,5,7_WaterColumn_01 - Water column – physical characteristics	Monitoring Details	Data collected are useful to MSFD monitoring for assessing the chemical characteristics of water column habitats and future trends under natural and climatic variability; data are usable in establishing/updating the environmental targets.
column – chemical characteristics BLKRO-D1,4,5_WaterColumn_07 -	Monitoring Method	Other monitoring method
Plankton blooms (biomass, frequency) BLKRO-D5_PressureMarEnv_02 -	Monitoring Method Other	nutrients - Grashhoff et al, 1998 onboard oxygen - Winkler method (Grasshoff et al., 1998) CTD oxygen, pH - UNESCO, 1988 TOC - Suzuki and Sugimura, 1988
water column	Quality Control	Control charts. Cartified References Material OLIASIMEME CTD calibration

Ecosystem	Eutrophication	า		
components,	Elements	DIP		
anthropogenic	monitored	GES criteria D5C1 Nutrient concentrations		
pressures and activities		addressed Parameters Concentration in		
monitored			monitored	water
		DIN		
		GES criteria	ria D5C1 Nutrient concentrations	
		addressed	d Parameters Concentration in monitored water	
		Dissolved oxy	ygen (O2)	
		GES criteria	D5C5 Dissolved oxygen	
		addressed	concentration	
			Parameters	Concentration in
			monitored	water



Spatial zones	Territorial waters,
monitored	EEZ (or similar)
Start(and end) date of	1959-9999
the programme	
Frequency of the	6-monthly
monitoring	
Type of monitoring	In-situ sampling coastal,
	In-situ sampling offshore
Indicators to which the	5.1.1 - DIP,
programme	5.1.2 - DIN,
contributes	5.5 - Bottom dissolved oxygen

	BLKRO-D1,4,5_WaterColumn_07 - Plankton blooms (biomass, frequency)		
Introduction/overview of programme	Monitoring in transects perpendicular on coast, covering the Romanian shelf, either waters strongly affected by the Danube's freshwater discharges and coastal activities or marine waters, less affected by eutrophication); Monitoring on coastal fix station (Cazino Mamaia) starting with 1959, still ongoing, to assess trends based on long-term data series; Ad hoc monitoring of bloom events		
Purpose of programme	Environme	ntal state and impacts	
Monitoring details	Data collected are useful in MSFD monitoring for assessing the extent of eutrophication and natural and climatic variability; data are usable in establishing/updating the environmental targets		
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Ecosystem	Eutrophication			
components,	Elements	Chlorophyll-a		
anthropogenic	monitored	GES criteria	D5C2 Chlorop	hyll-a concentration
pressures and activities		addressed	Parameters	Concentration in
monitored			monitored	water
		Noctiluca scin	tillans	
		GES criteria	D5C3 Harmful	algal blooms
		addressed	Parameters	BIOM
			monitored	
Spatial zones	Territorial wat	ters		
monitored				
Start(and end) date of	1959-9999			
the programme				
Frequency of the	6-monthly			
monitoring				
Type of monitoring	In-situ sampling coastal,			
	In-situ samplir	ng offshore		
Indicators to which the	5.2 - Chloroph	ıyll a <i>,</i>		
programme	5.3 - Noctiluca	a scintillans bio	mass	
contributes				

MONITORING PROGRAMME	BLKRO-D5_PressureMarEnv_02 - Nutrient and organic matter levels - in water column
Introduction/overview of programme	Monitoring in transects perpendicular to coast, evenly distributed and around hotspots.
Purpose of programme	Pressures in the marine environment
Monitoring details	Data collected are useful to MSFD monitoring for assessing the level of the nutrients pressure in the marine environment; data are usable in establishing/updating pressure's targets.



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Contaminant levels - in water/sediment	Temporal Scope	1985-9999			· · · · ·
BLKRO-D8_PressureMarEnv_05 - Contaminant levels - in water/sediment	Spatial Scope	Territorial waters			
BLKRO-D8,9_PressureMarEnv_07 - Contaminant levels - in species, including seafood	Marine Reporting Unit	BLK_RO_RG_CT BLK_RO_RG_TT03 BLK_RO_RG_MT01			
BLKRO-D1,2,4,5,6_SeabedHabitats_08 - Seabed habitats - community characteristics	Monitoring Purpose	Pressures in the marine enviro	nment		
BLKRO-D1,5,7_WaterColumn_01 - Water column – physical characteristics	Monitoring Type	In-situ sampling coastal In-situ sampling offshore			
BLKRO-D1,5,7_WaterColumn_03 - Water column – chemical characteristics	Monitoring Details	Data collected are useful to MSFD monitoring for assessing the level of the nutrients pressure in the marine environment; data are usable in establishing/updating pressure's targets.			sure in the
BLKRO-D1,4,5_WaterColumn_07 - Plankton blooms (biomass, frequency)	Monitoring Method	Other monitoring method			
BLKRO-D5_PressureMarEnv_02 - Nutrient and organic matter levels - in water column	Monitoring Method Other	Grasshoff et al, 1998 (nutrients	s) Suzuki and Sugimura, 1988 (T	OC)	
BLKRO-D10_PressureMarEnv_13 - Litter	Quality Control	Control charts, Certified References Material QUASIMEME			
on coast, water surface, seabed	Monitoring Frequency	6-monthly			
Ecosystem	Eutrophicatio	n			
components,	Elements	DIP			
anthropogenic	monitored	onitored GES criteria D5C1 Nutrient concentrations			ions
pressures and activities		addressed	Parameters	Concentrat	ion in
monitored			monitored	water	
		DIN			
		GES criteria	D5C1 Nutrien	t concentrat	ions
		addressed	Parameters	Concentrat	ion in
			monitored	water	
Spatial zones monitored	Territorial wa	ters			
Start(and end) date of	1985-9999				
Frequency of the	6-monthly				
monitoring					
Type of monitoring	In-situ sampling coastal,				
Indicators to which the	5.1.1 - DIP				
programme	5.1.2 - DIN				
contributes					



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MONITORING	D10 LITTER
STRATEGY	
Description of the	Beach litter - monitoring on the beaches - at least 1 section of
monitoring strategy	coastline of 100 m on lightly to moderately littered beaches and
	50 m on heavily littered beaches (per selected site);
	Seafloor litter - monitoring in transects, covering the Romanian
	shelf waters (assessed along with demersal fish monitoring)
Description of the gaps	Need to improve frequency and monitoring transects
and plans to complete	
the implementation of	
monitoring	
Monitoring	BLKRO-D10_PressureMarEnv_13
programmes that	
contribute to this	BLKRO-D10_PressureMarEnv_14
strategy	

MONITORING PROGRAMME	BLKRO-D10_PressureMarEnv_13 - Litter - characteristics and abundance/volume on coast, water surface, seabed		
Introduction/overview of programme	Monitoring on the beaches - at least 1 section of coastline of 100 m on lightly to moderately littered beaches and 50 m on heavily littered beaches (per selected site)		
Purpose of programme	Pressures in the marine environment		
Monitoring details	Data collected are useful in the MSFD monitoring for assessing the litter on the beaches, thus for establishing/updating targets and and GES		
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BLKRO-D1,2,4,5,6_SeabedHabitats_08 - Seabed habitats - community characteristics BLKRO-D1,5,7_WaterColumn_01 - Water column – physical characteristics	Spatial Scope Terrestrial part of MS Marine Reporting Unit BLK_RO_RG_CT Monitoring Purpose Pressures in the marine environment		
BLKRO-D1,5,7_WaterColumn_03 - Water column – chemical characteristics BLKRO-D1,4,5_WaterColumn_07 - Plankton blooms (biomass, frequency)	Monitoring Type In-situ sampling land/beach Monitoring Data collected are useful in the MSFD monitoring for assessing the litter on the beaches thus for		
BLKRO-D5_PressureMarEnv_02 - Nutrient and organic matter levels - in water column	Details establishing/updating targets and and GES Monitoring Method Other monitoring method		
BLKRO-D10_PressureMarEnv_13 - Litter - characteristics and abundance/volume on coast, water surface, seabed BLKRO-D10_PressureMarEnv_14 - Litter - characteristics and abundance/volume on coast, water surface, seabed	Monitoring Method Other JRC, 2013. Guidance on Monitoring of marine litter in European Seas. A guidance document within the Common Implementation Strategy for the Marine Strategy Framework Directive. MSFD Technical Subgroup on Marine Litter. 128 p http://publications.jrc.ec.europa.eu/repository/bitstream/JRC83985/lb-na-26113-en- n.pdf; Black Sea Commission, 2009. Marine Litter in the Black Sea Region. Black Sea Commission Publications http://www.blacksea-commission.org/_publ-ML.asp; Coastwatch method - http://coastwatch.org/europe/		

22 | MARINE STRATEGY FRAMEWORK DIRECTIVE – Monitoring strategies

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Quality Control No validation of data

BLKRO-D3_Mobile SpeciesFish_09 -



Ecosystem	Litter in the environment			
components,	Elements	nts Litter in the environment		
anthropogenic	monitored	GES criteria D10C1 Litter (excluding micro-litte		
pressures and activities		addressed	Parameters	Amount on coastline
monitored			monitored	
Spatial zones	Terrestrial par	t of MS		
monitored				
Start(and end) date of	2013-9999			
the programme				
Frequency of the	Yearly			
monitoring				
Type of monitoring	In-situ samplir	ng land/beach		
Indicators to which the	10.1.1 - Numb	er of litter iten	ns per 100m be	ach
programme				
contributes				

MONITORING PROGRAMME	BLKRO-D10_PressureMarEnv_14 - Litter - characteristics and abundance/volume on coast, water surface, seabed		
Introduction/overview of programme	Monitoring in transects, covering the Romanian shelf waters (along with demersal fish monitoring)		
Purpose of programme	Pressures in the marine environment		
Monitoring details	Data collected are usable in the MSFD monitoring for assessing the litter on the seafloor (alterations of seabed habitats), thus for establishing/updating targets and GES		
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BLKRO-D5_PressureMarEnv_02 - Nutrient and organic matter levels - in water column	Temporal Scope	2013-9999	
BLKRO-D10_PressureMarEnv_13 - Litter - characteristics and abundance/volume on coast, water surface, seabed	Spatial Scope	Territorial waters	
BLKRO-D10_PressureMarEnv_14 - Litter	Marine Reporting Unit	BLK_RO_RG_MT01	
on coast, water surface, seabed	Monitoring Purpose	Pressures in the marine environment	
BLRRO-D3_Mobile SpeciesFish_09 - Mobile species – distribution, abundance and/or biomass	Monitoring Type	In-situ sampling offshore	
BLKRO-D3_Mobile SpeciesFish_11 - Mobile species – population characteristics	Monitoring Details	Data collected are usable in the MSFD monitoring for assessing the litter on the seafloor (alterations of seabed habitats), thus for establishing/updating targets and GES	
BLKRO-D1,3_Mobile SpeciesFish_13 - Mobile species – mortality/injury rates	Monitoring Method	Other monitoring method	
from fisheries (targeted and/or incidental) BLKRO-D1_Mobile SpeciesMammals_04 - Mobile species – mortality/injury rates from fisheries (targeted and/or incidental)	Monitoring Method Other	JRC, 2013. Guidance on Monitoring of marine litter in European Seas. A guidance document within the Common Implementation Strategy for the Marine Strategy Framework Directive. MSFD Technical Subgroup on Marine Litter. 128 p http://publications.jrc.ec.europa.eu/repository/bitstream/JRC83985/lb-na-26113-en- n.pdf; Black Sea Commission, 2009, Marine Litter in the Black Sea Region. Black Sea Commission Publications http://www.blacksea-commission.org/_publ-ML.asp;	
BLKRO-D1,2,4_Mobile SpeciesFish_08 - Mobile species – distribution, abundance	Quality Control	No validation of data	

23 | MARINE STRATEGY FRAMEWORK DIRECTIVE – Monitoring strategies



Ecosystem	Litter in the environment			
components,	Elements	Litter in the environment		
anthropogenic	monitored	GES criteria D10C1 Litter (excluding micro-litte		
pressures and activities		addressed	Parameters	Amount on seabed
monitored			monitored	
Spatial zones	Territorial wat	ters		
monitored				
Start(and end) date of	2013-9999			
the programme				
Frequency of the	Yearly			
monitoring				
Type of monitoring	In-situ samplir	ng offshore		
Indicators to which the	10.1.2 - Weigł	nt of litter per r	n2 of seabed	
programme				
contributes				



MONITORING	D3 COMMERCIAL FISH AND SHELLFISH		
STRATEGY			
Description of the	Monitoring in transects perpendicular to coast; Monitoring the		
monitoring strategy	fishing practiced along of the coastline		
Description of the gaps	Data collected in the frames of CFP-DC-MAP, Habitats, BSC will be		
and plans to complete	used in the MSFD monitoring to assess the state of the fish		
the implementation of	population and to improve existing targets		
monitoring			
Monitoring	BLKRO-D3_Mobile SpeciesFish_09		
programmes that			
contribute to this	BLKRO-D3_Mobile SpeciesFish_11		
strategy			
	BLKRO-D1,3 Mobile SpeciesFish 13		

MONITORING PROGRAMME	BLKRO-D3_Mobile SpeciesFish_09 - Mobile species – distribution, abundance and/or biomass						
Introduction/overview	Monitoring	in transects perpendicular to coast;					
of programme	wonitoring	Monitoring the fishing practiced along of the coastline.					
Purpose of programme	Environmen	Environmental state and impacts					
Other EU or	Data Collect	ion Framework Multi-Annual Plan (Common Fisheries					
international policies	Policy),						
to which programme	Habitats Dir	ective,					
contributes	BSC Integrat	ed Monitoring and Assessment Programme					
Monitoring details	Data collect	Data collected in the frames of CFP-DC-MAP, Habitats, BSC will be					
	used in the	used in the MSFD monitoring to assess the state of the fish					
	population and to improve existing targets.						
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Nutrient and organic matter levels - in water column	Spatial Scope	EEZ (or similar)					
BLKRO-D10_PressureMarEnv_13 - Litter - characteristics and abundance/volume on coast, water surface, seabed	Marine Reporting Unit	BLK_R0_RG_CT BLK_R0_RG_TT03 BLK_R0_RG_MT01					
BLKRO-D10_PressureMarEnv_14 - Litter - characteristics and abundance/volume on coast, water surface, seabed	Monitoring Purpose						
BLKRO-D3_Mobile SpeciesFish_09 - Mobile species – distribution, abundance and/or biomass	Monitoring Type In-situ sampling coastal In-situ sampling offshore						
BLKRO-D3_Mobile SpeciesFish_11 - Mobile species – population characteristics	Monitoring Details	Monitoring Data collected in the frames of CFP-DC-MAP, Habitats, BSC will be used in the MSFD monitoring to assess the state of the fish population and to improve existing targets.					
BLKRO-D1,3_Mobile SpeciesFish_13 -	Monitoring Method	Other monitoring method					
from fisheries (targeted and/or incidental)	Monitoring Method Other	Romanian National Programme for data collection and management of fisheries data 2014-2020 http://www.rmri.ro/Home/Downloads/Publications.Other/Fishery_data_collection_ro.pdf					

According to ICES WKACCU Report, 2008 (Romanian National Programme for data collection and management of fisheries data 2011-2013) GFCM, 2018. GFCM Data Collection Reference Framework (DCRF), Version: 19.1;

Quality Control

BLKRO-D1_Mobile SpeciesMammals_04 - Mobile species – mortality/injury rates from fisheries (targeted and/or incidental)

BLKRO-D1,2,4_Mobile SpeciesFish_08 -Mobile species – distribution, abundance



Ecosystem	Commercially exploited fish and shellfish				
components,	Elements	Sprattus sprattus			
anthropogenic	monitored	GES criteria	D3C2 Spawnir	ng stock biomass (SSB)	
pressures and activities		addressed	Parameters	Biomass of Spawning	
monitored			monitored	Stock (SSB)	
Spatial zones	EEZ (or similar	EEZ (or similar)			
monitored					
Start(and end) date of	2000-9999				
the programme					
Frequency of the	6-monthly				
monitoring					
Type of monitoring	In-situ sampling coastal,				
	In-situ samplir	ng offshore			
Indicators to which the	3.2 - Spawning	g stock biomass	5		
programme					
contributes					

MONITORING PROGRAMME	BLKRO-D3_Mobile SpeciesFish_11 - Mobile species – population characteristics
Introduction/overview	Monitoring in transects perpendicular to coast;
of programme	Monitoring the fishing practiced along of the coastline.
Purpose of programme	Environmental state and impacts
Other EU or	Data Collection Framework Multi-Annual Plan (Common Fisheries
international policies	Policy),
to which programme	Habitats Directive,
contributes	BSC Integrated Monitoring and Assessment Programme
Monitoring details	Data collected in the frames of CFP-DC-MAP, Habitats, BSC will be used in the MSFD monitoring to assess the state of the fish population and to improve existing targets.



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BLKRO-D5_PressureMarEnv_02 - Nutrient and organic matter levels - in	Spatial Scope	2000-9999				
water column	Spatial Scope	EEZ (or similar)				
BLKRO-D10_PressureMarEnv_13 - Litter - characteristics and abundance/volume on coast, water surface, seabed	Marine Reporting Unit	BLK_RO_RG_CT BLK_RO_RG_TT03 BLK_RO_RG_MT01				
BLKRO-D10_PressureMarEnv_14 - Litter - characteristics and abundance/volume on coast, water surface, seabed	Monitoring Purpose	Environmental state and impacts				
BLKRO-D3_Mobile SpeciesFish_09 - Mobile species – distribution, abundance and/or biomass	Monitoring Type	In-situ sampling coastal In-situ sampling offshore				
BLKRO-D3_Mobile SpeciesFish_11 - Mobile species – population characteristics	Monitoring Details	Data collected in the frames of CF assess the state of the fish population	P-DC-MAP, Habitats, BSC will be tion and to improve existing targe	used in the MSFD monitoring	g to	
BLKRO-D1,3_Mobile SpeciesFish_13 -	Monitoring Method	Other monitoring method				
from fisheries (targeted and/or incidental) BLKRO-D1_Mobile SpeciesMammals_04	Monitoring Method Other	Romanian National Programme fo http://www.rmri.ro/Home/Download	r data collection and managemer ds/Publications.Other/Fishery_da	nt of fisheries data 2014-2020 ta_collection_ro.pdf		
- Mobile species – mortality/injury rates from fisheries (targeted and/or incidental) BLKRO-D1,2,4_Mobile SpeciesFish_08 - Mobile species – distribution, abundance	Quality Control According to ICES WKACCU Report, 2008 (Romanian National Programme for dat management of fisheries data 2011-2013) GFCM, 2018. GFCM Data Collection Re (DCRF), Version: 19.1;				nd ework	
Ecosystem	Commerciall	ly exploited fish and shellfish				
components,	Elements	Sprattus sprattus				
anthropogenic	monitored	d GES criteria D3C3 Population age/size				
pressures and activities		addressed	distribution			
monitored			Parameters	Age distribu	tion	
			monitored			
		Engraulis encrasicolus				
		GES criteria	D3C3 Populat	ion age/size		
		addressed	distribution			
			Parameters	Age distribut	tion	
			monitored			
Spatial zones monitored	EEZ (or simila	ar)				
Start(and end) date of	2000-9999					
the programme						
Frequency of the	6-monthly					
monitoring	,					
Type of monitoring	In-situ samp	ling coastal,				
	In-situ samp	ling offshore				
Indicators to which the	3.3 - Age of f	3.3 - Age of first sexual maturity stage				
programme						
contributes						



MONITORING PROGRAMME	BLKRO-D1,3_Mobile SpeciesFish_13 - Mobile species – mortality/injury rates from fisheries (targeted and/or incidental)						
Introduction/overview of programme	Monitoring in transects perpendicular to coast; Monitoring the fishing practiced along of the coastline.						
Purpose of programme	Environmen	ntal	state and imp	oacts			
Other EU or international policies to which programme contributes	Data Collect Policy), Habitats Dir BSC Integra	Data Collection Framework Multi-Annual Plan (Common Fisheries Policy), Habitats Directive, BSC Integrated Monitoring and Assessment Programme					
Monitoring details	Data collected in the frames of CFP-DC-MAP, BSC will be used in the MSFD monitoring to assess the state of the fish population and to improve existing targets. Romania will use the data from completed logbooks, for the parameters on fishing effort by techniques. Additional, in ports and fishery points will be distributed questionnaires.						
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BLKRO-D5_PressureMarEnv_02 - Nutrient and organic matter levels - in water column	Temporal Scope	2000-9	9999				
BLKRO-D10_PressureMarEnv_13 - Litter - characteristics and abundance/volume	Spatial Scope	EEZ (d	EEZ (or similar)				
on coast, water surface, seabed BLKRO-D10_PressureMarEnv_14 - Litter - characteristics and abundance/volume	Marine Reporting Unit	BLK_RO_RG_TT03 BLK_RO_RG_MT01					
on coast, water surface, seabed	Monitoring Purpose		nvironmental state and impacts				
BLKRO-D3_Mobile SpeciesFis5_U9 - Mobile species – distribution, abundance and/or biomass	Monitoring Type	In-situ In-situ	⊢situ sampling coastal				
BLKRO-D3_Mobile SpeciesFish_11 - Mobile species – population characteristics BLKRO-D1,3_Mobile SpeciesFish_13 -	Monitoring Details	Data of the for the	collected in the frames of CFP- fish population and to improve parameters on fishing effort b	DC-MAP, BSC will be used in the existing targets. Romania will us y techniques. Additional, in ports	he MSFD monitoring to assess the state use the data from completed logbooks, ts and fishery points will be distributed		
Mobile species – mortality/injury rates from fisheries (targeted and/or incidental)	Monitoring Method	Other	Uther monitoring method				
Mobile species – motality/injury rates from fisheries (targeted and/or incidental)	Monitoring Method Other	Roman http://v	nian National Programme for c www.rmri.ro/Home/Downloads	lata collection and management c /Publications.Other/Fishery_data_	f fisheries data 2014-2020 collection_ro.pdf		
BLKRO-D1,2,4_Mobile SpeciesFish_08 - Mobile species – distribution, abundance	Quality Control	Accord	ding to ICES WKACCU Report	i, 2008 (Romanian National Progr	amme for data collection and		
Ecosystem	Commercial	lly e	exploited fish a	and shellfish			
components,	Elements		Sprattus sprat	tus			
anthropogenic	monitored	(GES criteria	D3C1 Fishing r	nortality rate (F)		
pressures and activities			addressed	Parameters	Mortality rate		
monitored				monitored			
			Engraulis encrasicolus				
			GES criteria	D3C1 Fishing r	nortality rate (F)		
		i	addressed	Parameters	Mortality rate		
				monitored			



		Squalus acant	hias				
		GES criteria	D3C1 Fishing r	mortality rate (F)			
		addressed	Parameters	Mortality rate			
			monitored				
		Merlangius merlangus					
		GES criteria D3C1 Fishing mortality rate (F)					
		addressed	Parameters	Mortality rate			
			monitored				
		Mullus barbatus					
		GES criteria	teria D3C1 Fishing mortality rate (F)				
		addressed	Parameters	Mortality rate			
			monitored				
	Demersal she	Demersal shelf fish					
	Elements	Squalus acant	hias				
	monitored	GES criteria	D1C1 Mortalit	y rate from incidental			
		addressed	by-catch				
			Parameters	Mortality rate			
			monitored				
		CEC oritoria D1C1 Montality rate from insidental					
		GES criteria addressed		y rate from incluental			
		auuresseu	Dy-catch Darameters	Mortality rate			
			monitored	wortanty rate			
Snatial zones	FEZ (or similar	-)	monitored				
monitored		,					
Start(and end) date of	2000-9999						
the programme							
Frequency of the	Monthly						
monitoring							
Type of monitoring	In-situ samplir	ng coastal,					
	In-situ samplir	ng offshore					
Indicators to which the	3.1 - Fishing m	nortality rate,					
programme	1.1.2 - Fishing mortality rate in marine waters						
contributes							



MONITORING	D11 ENERGY, INCLUDING UNDERWATER NOISE
STRATEGY	
Description of the	Descriptor 11 on Romanian territorial waters is at the beginning.
monitoring strategy	So far, the initial state has been achieved on water bodies for
	2016 - 2017 period. For Descriptor 11, the good ecological status
	and threshold levels for underwater noise were Not assessed.
Description of the gaps	The impulse noise register has begun. The inventory of the
and plans to complete	sources of impulsive noise is necessary for the creation of Impulse
the implementation of	Noise Registers on the Romanian Black Sea shelf. This inventory is
monitoring	a first step in setting current levels and trends, as recommended
	by the MSFD -TG Noise Technical Group. For D11C1, good
	ecological status and threshold levels for underwater noise were
	Not assessed.
	D11C2 in Romanian territorial waters is at the beginning. So far,
	the initial state of D11 has been achieved on water bodies. The
	underwater noise was monitored with specific equipment. The
	results indicate that the current noise level on the Romanian Black
	Sea continental shelf justifies further investigations. For D11C2,
	good ecological status and threshold levels for underwater noise
	were not defined.
Monitoring	BLKRO-D11_PressureMarEnv_15
programmes that	
contribute to this	BLKRO-D11_PressureMarEnv_16
strategy	

MONITORING PROGRAMME	BLKRO-D11_PressureMarEnv_15 - Impulsive underwater noise - distribution, frequency and levels
Introduction/overview of programme	Descriptor 11 on Romanian territorial waters is at the beginning. So far, the initial state has been achieved on water bodies for 2016 - 2017 period. For Descriptor 11, the good ecological status and threshold levels for underwater noise were Not assessed. The impulse noise register has begun. The inventory of the sources of impulsive noise is necessary for the creation of Impulse Noise Registers on the Romanian Black Sea shelf. This inventory is a first step in setting current levels and trends, as recommended by the MSFD -TG Noise Technical Group. For D11C1, good ecological status and threshold levels for underwater noise were Not assessed.
Purpose of programme	Pressures in the marine environment
Monitoring details	



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characteristics	Implementation						
BLKRO-D1,2,4_WaterColumn_05 - Pelagic habitats – community	Temporal Scope	201	6-9999				
BLKRO-D1,6,7_SeabedHabitats_02 -	Spatial Scope	Terr	itorial waters				
Seabed habitats - physical and chemical characteristics	Marine Reporting Unit	BLK	_RO_RG_MT01				
BLKRO-D2_PressureMarEnv_01 - Non- indigenous species - abundance and/or biomass	Monitoring Purpose	Pres	ssures in the marine environment	t			
BLKRO-D1,4,6_SeabedHabitats_01 - Seabed habitats - distribution and extent	Monitoring Type	In-si	tu sampling offshore				
BLKRO-D1,2,3,4,6_SeabedHabitats_05 - Seabed habitats - community	Monitoring Details						
characteristics BLKRO-D11 PressureMarEnv 15 -	Monitoring Method	Monitoring Method Guidance on monitoring impulsive underwater noise					
Impulsive underwater noise - distribution, frequency and levels	Monitoring Method Other						
BLKRO-D11_PressureMarEnv_16 - Continuous underwater noise - distribution, frequency and levels	Quality Control	Nov	validation of data				
	Monitoring Frequency	As r	needed				
Ecosystem	Impulsive s	ou	nd in water				
components,	Elements		Not Applicable	9			
anthropogenic	monitored		GES criteria	D11C1 Anthro	pogenic imp	uls	ive
pressures and activities			addressed	sound	1		
monitored				Parameters	Level of sou	ind	
				monitored			
Spatial zones	Territorial v	vat	ers	1	1		
monitored							
Start(and end) date of	2016-9999						
the programme							
Frequency of the	As needed						
monitoring							
Type of monitoring	In-situ sam	In-situ sampling offshore					

MONITORING PROGRAMME	BLKRO-D11_PressureMarEnv_16 - Continuous underwater noise - distribution, frequency and levels
Introduction/overview	Descriptor 11 on Romanian territorial waters is at the beginning.
of programme	So far, the initial state has been achieved on water bodies for
	2016 - 2017 period. For Descriptor 11, the good ecological status
	and threshold levels for underwater noise were Not assessed.
	D11C2 in Romanian territorial waters is at the beginning. So far,
	the initial state of D11 has been achieved on water bodies. The
	underwater noise was monitored with specific equipment. The
	results indicate that the current noise level on the Romanian Black
	Sea continental shelf justifies further investigations. For D11C2,
	good ecological status and threshold levels for underwater noise
	were not defined.
Purpose of programme	Pressures in the marine environment



Monitoring details					
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characteristics	Temporal 20 Scope	16-9999			·
Pelagic habitats – community characteristics	Spatial Scope	rritorial waters			
BLKRO-D1,6,7_SeabedHabitats_02 - Seabed habitats - physical and chemical	Marine Reporting Unit	K_RO_RG_MT01			
BLKRO-D2_PressureMarEnv_01 - Non-	Monitoring Purpose	ressures in the marine environmen	t		
biomass	Monitoring Type	-situ sampling offshore			
BLKRO-D1,4,6_SeabedHabitats_01 - Seabed habitats - distribution and extent	Monitoring Details				
BLKRO-D1,2,3,4,6_SeabedHabitats_05 - Seabed habitats - community characteristics	Monitoring Method	uidance on monitoring continuous	underwater noise		
BLKRO-D11_PressureMarEnv_15 - Impulsive underwater noise - distribution, frequency and levels	Monitoring Method Other				
BLKRO-D11_PressureMarEnv_16 -	Quality Control No validation of data				
distribution, frequency and levels	Monitoring A: Frequency	s needed			
-	Data	<i>c</i>			· · ·
Ecosystem	Continuous lo	ow frequency so	bund		
components,	Elements	Not Applicable	e		
anthropogenic	monitored	GES criteria	D11C2 Anthro	pogenic cont	inuous
pressures and activities		addressed	low-frequency	/ sound	
monitored			Parameters	Underwater	sound
			monitored	level	
Spatial zones	Territorial wa	iters			
monitored					
Start(and end) date of	2016-9999				
the programme					
Frequency of the	As needed				
monitoring					
Type of monitoring	In-situ sampling offshore				



MONITORING	D1 BIODIVERSITY - MAMMALS
STRATEGY	
Description of the	Monitoring of number of incidents on the beaches along the
monitoring strategy	coast; Monitoring by
	quantifying bycatch (or damage) on a fishery-by-fishery basis.
Description of the gaps	Incidental caught and stranded individuals are investigated all
and plans to complete	around the year (not regularly), in different sites.
the implementation of	
monitoring	
Monitoring	
programmes that	BLKRO-D1_Mobile SpeciesMammals_04
contribute to this	
strategy	

MONITORING PROGRAMME	BLKRO-D1_Mobile SpeciesMammals_04 - Mobile species – mortality/injury rates from fisheries (targeted and/or incidental)				
Introduction/overview	Monitoring of number of incidents on the beaches along the				
of programme	coast;				
	Monitoring by quantifying bycatch (or damage) on a fishery-by- fishery basis				
Purpose of programme	Environmental state and impacts				
Other EU or	Habitats Directiv	ve			
international policies					
to which programme					
contributes					
Monitoring details	Incidental caugh	nt and stranded individuals are investigated all			
	around the year	· (not regularly), in different sites			
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characteristics	Implementation	۵			
BLKRO-D1,3_Mobile SpeciesFish_13 - Mobile species – mortality/injury rates	Temporal Scope	2010-9999			
from fisheries (targeted and/or incidental)	Spatial Scope	Terrestrial part of MS Territorial waters			
- Mobile species – mortality/injury rates from fisheries (targeted and/or incidental)	Marine Reporting Unit	BLK_RO_RG_MT01			
BLKRO-D1,2,4_Mobile SpeciesFish_08 - Mobile species – distribution, abundance	Monitoring Purpose	Environmental state and impacts			
BLKRO-D1, 4_Mobile SpeciesFish_10 -	Monitoring Type	Visual observation Administrative data collection			
characteristics BLKRO-D1.2.4.5 WaterColumn 04 -	Monitoring Details	Incidental caught and stranded individuals are investigated all around the year (not regularly), in different sites			
Pelagic habitats – community characteristics	Monitoring Method	Other monitoring method			
BLKRO-D1,2,4_WaterColumn_05 - Pelagic habitats – community characteristics	Monitoring Method Other	Draft Protocol for data collection on bycatch and depredation in the ACCOBAMS Region, 2008			
BLKRO-D1.6.7 SeabedHabitats 02 -	Quality Control	No validation on the data			
Seabed habitats - physical and chemical characteristics	Monitoring Frequency	As needed			
RLKDO D2 ProssureMarEny 01 Non	Data Management	· · · · · · · · · · · · · · · · · · ·			



Ecosystem	Small toothed	cetaceans				
components,	Elements	Delphinus delphis				
anthropogenic	monitored	GES criteria	D1C1 Mortalit	y rate from incidental		
pressures and activities		addressed	by-catch			
monitored			Parameters	Mortality		
			monitored	(weight/volume;		
				number of		
				individuals)		
		Phocoena pho	coena			
		GES criteria	D1C1 Mortalit	y rate from incidental		
		addressed	by-catch			
			Parameters	Mortality		
			monitored	(weight/volume;		
				number of		
				individuals)		
		Tursiops truncatus				
		GES criteria	GES criteria D1C1 Mortality rate from inci addressed by-catch			
		addressed				
			Parameters	Mortality		
			monitored	(weight/volume;		
				number of		
				individuals)		
Spatial zones	Terrestrial par	rt of MS,				
monitored	Territorial wat	ters				
Start(and end) date of	2010-9999					
the programme						
Frequency of the	As needed					
monitoring						
Type of monitoring	Visual observation,					
	Administrative	itive data collection				
Indicators to which the	1.1 - Mortality	rate from inci	dental by-catch	1		
programme						
contributes						



MONITORING	D1 Biodiversity - reptiles		
STRATEGY			
Description of the	Descriptor not relevant for Member State's waters		
monitoring strategy			
Description of the gaps	Monitoring for this descriptor is not relevant		
and plans to complete			
the implementation of			
monitoring			

MONITORING STRATEGY	D1 Biodiversity - birds
Description of the	Descriptor not relevant for Member State's waters
monitoring strategy	
Description of the gaps	Monitoring for this descriptor is not relevant
and plans to complete	
the implementation of	
monitoring	

MONITORING	D1 Biodiversity - cephalopods		
STRATEGY			
Description of the	Descriptor not relevant for Member State's waters		
monitoring strategy			
Description of the gaps	Monitoring for this descriptor is not relevant		
and plans to complete			
the implementation of			
monitoring			

MONITORING STRATEGY	D4 FOOD WEBS/D1 BIODIVERSITY - ECOSYSTEMS		
Description of the	Lack of data. For Descriptor 4, the good ecological status and		
monitoring strategy	threshold levels were Not assessed.		
Description of the gaps	Lack of data		
and plans to complete			
the implementation of			
monitoring			



MONITORING	D1 BIODIVERSITY - FISH			
STRATEGY				
Description of the	Monitoring in transects perpendicular to coast; Monitoring the			
monitoring strategy	fishing practiced along of the coastline.			
Description of the gaps	Data collected in the frame of CFP-DC-MAP and BSC will be used			
and plans to complete	in the MSFD monitoring to assess the fish mortality/injury rates			
the implementation of	from fisheries (targeted and/or incidental)			
monitoring				
Monitoring	BLKRO-D1,2,4_Mobile SpeciesFish_08			
programmes that				
contribute to this	BLKRO-D1, 4_Mobile SpeciesFish_10			
strategy				
	BLKRO-D1,3_Mobile SpeciesFish_13			

MONITORING PROGRAMME	BLKRO-D1,2,4_Mobile SpeciesFish_08 - Mobile species – distribution, abundance and/or biomass			
Introduction/overview of programme	Monitoring in transects perpendicular to coast; monitoring the fishing practiced along of the coastline			
Purpose of programme	Environmental state and impacts			
Other EU or international policies to which programme contributes	Data Collection Framework Multi-Annual Plan (Common Fisheries Policy), General Fisheries Commission for the Mediterranean			
Monitoring details	Data collected in the frames of Habitats, BSC will be used in the MSFD monitoring to assess the state of the fish population and to provide GES and targets			
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characteristics	Temporal Scope	2000-9999		
BLKRO-D1,3_Mobile SpeciesFish_13 - Mobile species – mortality/injury rates from fisheries (targeted and/or incidental)	Spatial Scope	EEZ (or similar)		
BLKRO-D1_Mobile SpeciesMammals_04 - Mobile species – mortality/injury rates from fictures(targeted and/or incidental)	Marine Reporting Unit	BLK_RO_RG_MT01		
BLKRO-D1,2,4_Mobile SpeciesFish_08 -	Monitoring Purpose	Environmental state and impacts		
and/or biomass BLKRO-D1, 4_Mobile SpeciesFish_10 -	Monitoring Type	In-situ sampling offshore Administrative data collection		
Mobile species – population characteristics	Monitoring Details	Data collected in the frames of Habitats, BSC will be used in the MSFD monitoring to assess the state of the fish population and to provide GES and targets		
BLKRO-D1.2,4,5_WaterColumn_04 - Pelagic habitats – community characteristics	Monitoring Method	Other monitoring method		
BLKRO-D1,2,4_WaterColumn_05 - Pelagic habitats – community characteristics	Monitoring Method Other	Romanian National Programme for data collection and management of fisheries data 2014-2020 http://www.rmri.ro/Home/Downloads/Publications.Other/Fishery_data_collection_ro.pdf		
BLKRO-D1,6,7_SeabedHabitats_02 - Seabed habitats - physical and chemical characteristics	Quality Control	According to ICES WKACCU Report, 2008 (Romanian National Programme for data collection and management of fisheries data 2011-2013) GFCM, 2018. GFCM Data Collection Reference Framework (DCRF), Version: 19.1;		
RI KDO D2 BroccureMarEny 01 Non	Monitoring	e manifely		



Ecosystem	Demersal shelf fish			
components,	Elements	Squalus acanthias		
anthropogenic	monitored	GES criteria D1C2 Population abundance		
pressures and activities		addressed	Parameters	BIOM-SSB
monitored			monitored	
		Merlangius m	erlangus	
		GES criteria	D1C2 Populati	on abundance
		addressed	Parameters	BIOM-SSB
			monitored	
Spatial zones	EEZ (or similar)			
monitored				
Start(and end) date of	2000-9999			
the programme				
Frequency of the	6-monthly			
monitoring				
Type of monitoring	In-situ sampling offshore,			
	Administrative data collection			
Indicators to which the	1.2.2 - Spawning stock abundance			
programme				
contributes				

MONITORING PROGRAMME	BLKRO-D1, 4_Mobile SpeciesFish_10 - Mobile species – population characteristics
Introduction/overview of programme	Monitoring in transects perpendicular to coast; monitoring the fishing practiced along of the coastline.
Purpose of programme	Environmental state and impacts
Other EU or international policies to which programme contributes	Data Collection Framework Multi-Annual Plan (Common Fisheries Policy), General Fisheries Commission for the Mediterranean
Monitoring details	Data collected in the frames of Habitats, BSC will be used in the MSFD monitoring to assess the state of the fish population and to provide GES and targets.



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BLKRO-D1,3_Mobile SpeciesFish_13 - Mobile species – mortality/injury rates from fibbarise (targated and/or incidental)	Spatial Scope	EEZ (or similar)				
BLKRO-D1_Mobile SpeciesMammals_04	Marine Reporting Unit	BLK_RO_RG_MT01				
from fisheries (targeted and/or incidental)	Monitoring Purpose	Environmental state and impacts				
BLKRO-D1,2,4_Mobile SpeciesFish_08 - Mobile species – distribution, abundance and/or biomass	Monitoring Type	In-situ sampling offshore Administrative data collection				
BLKRO-D1, 4_Mobile SpeciesFish_10 - Mobile species – population characteristics	Monitoring Details	Data collected in the frames of Hal the fish population and to provide	bitats, BSC will be used in the MS GES and targets.	SFD monitoring to assess the state of		
BLKRO-D1,2,4,5_WaterColumn_04 - Pelagic habitats – community characteristics	Monitoring Method	Other monitoring method				
BLKRO-D1,2,4_WaterColumn_05 - Pelagic habitats – community	Monitoring Method Other	Romanian National Programme fo http://www.rmri.ro/Home/Download	r data collection and managemer ds/Publications.Other/Fishery_da	t of fisheries data 2014-2020 a_collection_ro.pdf		
BLKRO-D1,6,7_SeabedHabitats_02 - Seabed habitats - physical and chemical characteristics	Quality Control according to ICES WKACCU Report, 2008 (Romanian National Programme for data collection and management of fisheries data 2011-2013) GFCM, 2018. GFCM Data Collection Reference Framework (DCRF), Version: 19.1;					
BLKRO-D2_PressureMarEnv_01 - Non-	Monitoring Frequency	6-monthly				
Ecosystem	Demersal sh	elf fish				
components,	Elements	Squalus acant	Squalus acanthias			
anthropogenic	monitored	GES criteria D1C3 Population demographic				
pressures and activities		addressed	characteristics	5		
monitored			Parameters	Age distribution		
			monitored			
		Merlangius m	erlangus			
		GES criteria	D1C3 Populat	ion demographic		
		addressed	characteristics	5		
			Parameters	Age distribution		
			monitored	0		
Spatial zones monitored	EEZ (or similar)					
Start(and end) date of	2000-9999					
the programme						
Frequency of the	6-monthly					
monitoring	omontiny					
Type of monitoring	In-situ sampling offshore, Administrative data collection					
Indicators to which the	1.3 - Age of the first maturity stage					
programme						
contributes						



MONITORING PROGRAMME	BLKRO-D1,3_Mobile SpeciesFish_13 - Mobile species – mortality/injury rates from fisheries (targeted and/or incidental)					
Introduction/overview	Monitoring in transects perpendicular to coast;					
of programme	Monitoring the fishing practiced along of the coastline.					
Purpose of programme	Environmen	ta	I state and imp	acts		
Other EU or	Data Collect	io	n Framework N	Aulti-Annual Pla	an (Common Fisheries	
international policies	Policy),					
to which programme	Habitats Dir	ec	tive,		_	
contributes	BSC Integrat	ec	d Monitoring a	nd Assessment	Programme	
wonitoring details	the MSED m	eu	in the frames	OI CFP-DC-IVIA	, BSC WIII be used in	
	and to impr		A existing targe	ss the state of	the fish population	
	Romania wi	U v	ise the data fro	om completed l	oghooks for the	
	parameters	or	n fishing effort	by techniques.	Additional. in ports	
	and fishery		ints will be dis	tributed question	onnaires.	
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BLKRO-D1,3_Mobile SpeciesFish_13 -	Temporal Scope	Soundcube Webma V Rock FM Q Europa FM LIVE – A V You lube Music M Welcome to Seeing V Control Composed Temporal Scope				
from fisheries (targeted and/or incidental)	Spatial Scope EEZ (or similar)					
BLKRO-D1_Mobile SpeciesMammals_04 - Mobile species – mortality/injury rates from fisheries (targeted and/or incidental)	Marine Reporting Unit BLK_RO_RG_CT BLK_RO_RG_TT03 BLK_RO_RG_MT01 Monitoring Purpose Environmental state and impacts Monitoring Type In-situ sampling coastal In-situ sampling offshore					
BLKRO-D1,2,4_Mobile SpeciesFish_08 - Mobile species – distribution, abundance and/or biomass						
BLKRO-D1, 4_Mobile SpeciesFish_10 - Mobile species – population characteristics						
BLKRO-D1,2,4,5_WaterColumn_04 - Pelagic habitats – community characteristics	Monitoring Details Data collected in the frames of CFP-DC-MAP, BSC will be used in the MSFD monitoring to assess the state of the fish population and to improve existing targets. Romania will use the data from completed logbooks, for the parameters on fishing effort by techniques. Additional, in ports and fishery points will be distributed			MSFD monitoring to assess the state e the data from completed logbooks, and fishery points will be distributed		
BLKRO-D1,2,4_WaterColumn_05 - Pelagic habitats – community characteristics	Monitoring Method	Othe	er monitoring method			
BLKRO-D1,6,7_SeabedHabitats_02 - Seabed habitats - physical and chemical characteristics	Monitoring Method Other	Ron http:	nanian National Programme for c //www.rmri.ro/Home/Downloads/	tata collection and management of Publications.Other/Fishery_data_	of fisheries data 2014-2020 collection_ro.pdf	
BLKRO-D2_PressureMarEnv_01 - Non-	Quality Control	Acc	ording to ICES WKACCU Report	, 2008 (Romanian National Progr	amme for data collection and	
Ecosystem	Commercial	ly	exploited fish a	and shellfish		
components,	Elements		Sprattus sprat	tus		
anthropogenic	monitored		GES criteria	D3C1 Fishing r	nortality rate (F)	
pressures and activities			addressed	Parameters	Mortality rate	
monitored				monitored		
			Engraulis encr	asicolus		
		GES criteria D3C1 Fishing mortality rate (F)			nortality rate (F)	
		addressed Parameters Mortality rate		wortality rate		
		Monitored Squalus acapthias				
		Squalus acantnias			nortality rate (F)	
	addressed Decemeters Mortality			Mortality rate		
			auuresseu	monitored	wortanty fale	
				monitoreu		



		Merlangius merlangus					
		GES criteria	D3C1 Fishing mortality rate (F)				
		addressed	Parameters	Mortality rate			
			monitored				
		Mullus barbat	us				
		GES criteria addressed	D3C1 Fishing mortality rate (F)				
			Parameters	Mortality rate			
			monitored				
	Demersal she	Demersal shelf fish					
	Elements	Squalus acant	hias				
	monitored	GES criteria	D1C1 Mortalit	y rate from incidental			
		addressed	by-catch				
			Parameters	Mortality rate			
			monitored				
		Merlangius merlangus					
		GES criteria	D1C1 Mortality rate from incidental				
		addressed	by-catch				
			Parameters	Mortality rate			
	/	<u> </u>	monitored				
Spatial zones monitored	EEZ (or similar	-)					
Start(and end) date of	2000-9999						
the programme							
Frequency of the	Monthly						
monitoring							
Type of monitoring	In-situ samplir	ng coastal,					
	In-situ samplir	ng offshore					
Indicators to which the	3.1 - Fishing m	nortality rate,					
programme	1.1.2 - Fishing	1.1.2 - Fishing mortality rate in marine waters					
contributes							



MONITORING	D1 BIODIVERSITY – PELAGIC HABITATS
STRATEGY	
Description of the	Monitoring activities cover entire Romanian shelf, either waters
monitoring strategy	strongly affected by the Danube's inputs and coastal activities or
	marine waters, less affected by human induced eutrophication (to
	emphasize the natural variability of planktonic communities);
	Monitoring on a coastal station (Cazino Mamaia) to assess trends
	based on long-term data series.
Description of the gaps	Data collected are useful to MSFD monitoring for assessing the
and plans to complete	pelagic community characteristics; data are usable in
the implementation of	establishing/updating the environmental targets. Needs
monitoring	improvement of sampling frequency.
Monitoring	BLKRO-D1,2,4,5_WaterColumn_04
programmes that	
contribute to this	BLKRO-D1,2,4_WaterColumn_05
strategy	

MONITORING PROGRAMME	BLKRO-D1,2,4,5_WaterColumn_04 - Pelagic habitats – community characteristics
Introduction/overview of programme	Monitoring activities cover entire Romanian shelf, either waters strongly affected by the Danube's inputs and coastal activities or marine waters, less affected by human induced eutrophication (to emphasize the natural variability of planktonic communities); Monitoring on a coastal station (Cazino Mamaia) to assess trends based on long-term data series.
Purpose of programme	Environmental state and impacts
Other EU or	Habitats Directive,
international policies	Water Framework Directive
to which programme contributes	
Monitoring details	Data collected are useful to MSFD monitoring for assessing the phytoplankton community characteristics; data are usable in establishing/updating the environmental targets.



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BLKRO-D1,3_Mobile SpeciesFish_13 - Mobile species – mortality/injury rates	Temporal Scope	1960-9999				
from fisheries (targeted and/or incidental)	Spatial Scope	Territorial waters				
BLKRO-D1_Mobile SpeciesMammals_04 - Mobile species – mortality/injury rates from fisheries (targeted and/or incidental)	Marine Reporting Unit	BLK_RO_RG_CT BLK_RO_RG_TT03 BLK_RO_RG_MT01				
BLRRO-D1,2,4_Mobile SpeciesHish_08 - Mobile species – distribution, abundance and/or biomass	Monitoring Purpose	Environmental state and impacts				
BLKRO-D1, 4_Mobile SpeciesFish_10 - Mobile species – population characteristics	Monitoring Type	Monitoring In-situ sampling coastal Type In-situ sampling offshore				
BLKRO-D1,2,4,5_WaterColumn_04 - Pelagic habitats – community characteristics	Monitoring Details	Monitoring Data collected are useful to MSFD monitoring for assessing the phytoplankton community characteristics; Details data are usable in establishing/updating the environmental targets.				
BLKRO-D1,2,4_WaterColumn_05 - Pelagic habitats – community	Monitoring Method	Monitoring Method Black Sea: Manual for Phytoplankton Sampling and Analysis in the Black Sea (link not working) Black Sea: Guidelines for Quality Control of Biological Data – Phytoplankton (link not working)				
BLKRO-D1,6,7_SeabedHabitats_02 - Seabed habitats - physical and chemical	Monitoring Method Other					
characteristics	Quality Control					
BLKRO-DZ_PressuremarEnv_01 - Non-	Monitoring	6-monthly		*		
Ecosystem	Pelagic broa	d habitats				
components,	Elements	Shelf pelagic h	habitat			
anthropogenic	monitored	GES criteria	D1C6 Pelagic habitat condition			
pressures and activities		addressed	Parameters	BIOM-Phytoplankton		
monitorea			monitored			
		Coastal pelagi	al pelagic habitat			
		GES criteria	D1C6 Pelagic	habitat condition		
		addressed	Parameters	BIOM-Phytoplankton		
			monitored			
		Variable salin	ity pelagic habi	tat		
		GES criteria	D1C6 Pelagic	habitat condition		
		addressed	Parameters	BIOM-Phytoplankton		
		-	monitored			
Spatial zones	Territorial w	aters				
monitored						
Start(and end) date of	1960-9999					
the programme						
Frequency of the	6-monthly					
monitoring						
Type of monitoring	In-situ samp In-situ samp	ling coastal, ling offshore				
Indicators to which the	1 6 1 - Phyte	nlankton hioma	\$\$			
programme						
contributes						
contributes						



MONITORING PROGRAMME	BLKRO-D1,	2,4	4_WaterColum ch	nn_05 - Pelagic aracteristics	habitats – community		
Introduction/overview of programme	Monitoring activities cover entire Romanian shelf, either waters strongly affected by the Danube's inputs and coastal activities or marine waters, less affected by human induced eutrophication (to emphasize the natural variability of planktonic communities)						
Purpose of programme	Environmer	nta	l state and imp	pacts			
Other EU or international policies to which programme contributes	Habitats Directive						
Monitoring details	Data collected are useful to MSFD monitoring for assessing the zooplankton community characteristics; data are usable in establishing the environmental targets.				ng for assessing the a are usable in		
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BLKRO-D1,3_Mobile SpeciesFish_13 - Mobile species – mortality/injury rates	Temporal Scope	196	6-9999				
from fisheries (targeted and/or incidental)	Spatial Scope	Terr	erritorial waters				
LINKO-D I_MODINE Species/Maintinia_04 Mobile species — mortality/injury rates from fisheries (targeted and/or incidental) BLKRO-D1.2.4 Mobile SpeciesFish 08 -	Marine BLK_RO_RG_CT Reporting Unit BLK_RO_RG_TT03 BLK_RO_RG_MT01						
Mobile species – distribution, abundance and/or biomass	Monitoring Purpose	Env	ironmental state and impacts				
BLKRO-D1, 4_Mobile SpeciesFish_10 - Mobile species – population characteristics	Monitoring In-situ sampling coastal Type In-situ sampling offshore						
BLKRO-D1,2,4,5_WaterColumn_04 - Pelagic habitats – community characteristics	Monitoring Details	Data are	a collected are useful to MSFD n usable in establishing the enviro	nonitoring for assessing the zoopl nmental targets.	ankton community characteristics; data		
BLKRO-D1,2,4_WaterColumn_05 - Pelagic habitats – community characteristics	Monitoring Method	Oth	er monitoring method				
BLKRO-D1,6,7_SeabedHabitats_02 -	Method Other	Kor	shenko A. and Alexandrov B., 20	106. Manual for zooplankton samp	ling and analysis in the Black Sea		
characteristics	Quality Control	Dela	ayed mode validation on the data	a			
BLKRO-D2_PressureMarEnv_01 - Non-	Monitoring 	6-m	onthly				
components	Flements	au		nahitat			
anthropogenic	monitored		GES criteria	D1C6 Pelagic I	nabitat condition		
pressures and activities	monitorea		addressed	Parameters	BIOM-Zooplankton		
monitored				monitored	•		
	Coastal pelagic habitat						
	GES crit address		GES criteria	D1C6 Pelagic I	nabitat condition		
					addressed	Parameters	BIOM-Zooplankton
			Variable calini	monitored	L		
			GES criteria		lal		
			addressed	Parameters	BIOM-Zooplankton		
				monitored			



Spatial zones	Territorial waters
monitored	
Start(and end) date of	1966-9999
the programme	
Frequency of the	6-monthly
monitoring	
Type of monitoring	In-situ sampling coastal,
	In-situ sampling offshore
Indicators to which the	1.6.2 - Zooplankton biomass
programme	
contributes	



MONITORING	D7 HYDROGRAPHICAL CHANGES
STRATEGY	
Description of the	Monitoring in transects covering the Romanian shelf waters;
monitoring strategy	monitoring in relation to the relevant habitat distribution
Description of the gaps	Data collected in the frame of WFD, Habitats and BSC are useful in
and plans to complete	the MSFD monitoring to assess the physical characteristics of the
the implementation of	seabed habitats
monitoring	
Monitoring	
programmes that	BLKRO-D1,6,7_SeabedHabitats_02
contribute to this	
strategy	

MONITORING PROGRAMME	BLKRO-D1,6,7_SeabedHabitats_02 - Seabed habitats - physical and chemical characteristics					
Introduction/overview of programme	Monitoring in transects covering the Romanian shelf waters; monitoring in relation to the relevant habitat distribution					
Purpose of programme	Environmen	ntal	state and imp	acts		
Monitoring details						
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characteristics BLKRO-D1,2,4,5_WaterColumn_04 - Peladic habitats community	Temporal Scope	2006-	9999			
characteristics	Spatial Scope	Territo	orial waters			
BLKRO-D1,2,4_WaterColumn_05 - Pelagic habitats – community characteristics	Marine Reporting Unit	BLK_ BLK_ BLK_	RO_RG_CT RO_RG_TT03 RO_RG_MT01			
BLKRO-D1,6,7_SeabedHabitats_02 - Seabed habitats - physical and chemical characteristics	Monitoring Purpose	Monitoring Purpose Environmental state and impacts				
BLKRO-D2_PressureMarEnv_01 - Non- indigenous species - abundance and/or blomass	Monitoring Type	In-situ In-situ Nume	u sampling coastal u sampling offshore prical modelling			
BLKRO-D1,4,6_SeabedHabitats_01 - Seabed habitats - distribution and extent	Monitoring Details					
BLKRO-D1,2,3,4,6_SeabedHabitats_05 - Seabed habitats - community characteristics	Monitoring Method	Other	monitoring method			
BLKRO-D11_PressureMarEnv_15 - Impulsive underwater noise - distribution, frequency and levels	Monitoring Method Other	Monitoring Method Other Bathymetric (single and multibeam measurements), Side-scan sonar imaging, geomorphologic and topographic measurements (leveling, granulometry analyze, GPS, aerial photos); IHO Standards for Hydrographic Surveys, International Hydrographic Organization.				l or
BLKRO-D11_PressureMarEnv_16 -	Quality Control	Unkn	own			
Ecosystem	Benthic broa	ad	habitats			
components,	Elements		Infralittoral sa	nd		
anthropogenic	monitored		GES criteria	D7C2 Adverse	effects from	
pressures and activities			addressed	alteration of h	vdrographica	
monitored				conditions	,	
				Parameters monitored	Extent	



		Circalittoral sa	and	
		GES criteria	D7C2 Adverse	effects from
		addressed	alteration of hydrographical	
			conditions	
			Parameters	Extent
			monitored	
		Circalittoral m	ud	
		GES criteria	D7C2 Adverse effects from	
		addressed	alteration of h	ydrographical
			conditions	
			Parameters	Extent
			monitored	
		Infralittoral m	ud	
		GES criteria	D7C2 Adverse	effects from
		addressed	alteration of h	ydrographical
			conditions	
			Parameters	Extent
			monitored	
		Offshore circa	littoral mud	
		GES criteria	D7C2 Adverse effects from alteration of hydrographical	
		addressed		
			conditions	
			Parameters	Extent
			monitored	
Spatial zones	Territorial wa	ters		
monitored				
Start(and end) date of	2006-9999			
the programme				
Frequency of the	Yearly			
monitoring				
Type of monitoring	In-situ sampling coastal, In-situ sampling offshore,			
	Numerical mo	aeiiing		for ook hokitat
indicators to which the	7.2 - Spatial e	xtent of perma	nent alteration	for each habitat
programme				
contributes				



MONITORING	D2 NON-INDIGENOUS SPECIES
STRATEGY	
Description of the	Monitoring in transects perpendicular to coast, evenly distributed
monitoring strategy	and around hotspots
Description of the gaps	Data collected from the existing national monitoring programme
and plans to complete	are useful in the MSFD monitoring to assess the NIS pressure in
the implementation of	the marine environment
monitoring	
Monitoring	
programmes that	BLKRO-D2_PressureMarEnv_01
contribute to this	
strategy	

MONITORING PROGRAMME	BLKRO-D2_PressureMarEnv_01 - Non-indigenous species - abundance and/or biomass					
Introduction/overview of programme	Monitoring and around	Monitoring in transects perpendicular to coast, evenly distributed and around hotspots				
Purpose of programme	Pressures in the marine environment					
Other EU or international policies to which programme contributes	Habitats Dir	ective				
Monitoring details	Data collect are useful ir the marine	ed from the existing national monitoring programme in the MSFD monitoring to assess the NIS pressure in environment				
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BLKRO-D1,2,4,5_WaterColumn_04 - Pelagic habitats – community characteristics BLKRO-D1,2,4_WaterColumn_05 - Pelagic habitats – community	Spatial Scope Marine Reporting Unit	Territorial waters BLK_RO_RG_CT BLK_RO_RG_MT01 BLK_RO_RG_TT03				
characteristics BLKRO-D1,6,7_SeabedHabitats_02 -	Monitoring Purpose	Pressures in the marine environment				
Seabed nabitats - physical and chemical characteristics BLKRO-D2_PressureMarEnv_01 - Non-	Monitoring Type	In-situ sampling coastal In-situ sampling offshore				
indigenous species - abundance and/or biomass	Monitoring Details	Data collected from the existing national monitoring programme are useful in the MSFD monitoring to assess the NIS pressure in the marine environment				
Seabed habitats - distribution and extent BLKRO-D1,2,3,4,6_SeabedHabitats_05 -	Monitoring Method	Other monitoring method				
Seabed habitats - community characteristics BLKRO-D11 PressureMarEnv 15 -	Monitoring Method Other	Todorova& Konsulova, 2005- www.blacksea-commission.org); Moncheva, 2010; Moncheva and Par. 2005 (updated-2010); Korshenko A. and Alexandrov B., 2006. Manual for zooplankton sampling and analysis in the Black Sea				
Impulsive underwater noise - distribution, frequency and levels	Quality Control	Delayed mode validation on the data				
BLKRO-D11_PressureMarEnv_16 -	Monitoring Frequency	6-monthly				

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Ecosystem	Newly-introduced non-indigenous species				
components,	Elements	Not Applicable	Not Applicable		
anthropogenic	monitored	GES criteria	D2C1 Newly-ii	ntroduced NIS	
pressures and activities		addressed	Parameters	Presence	
monitored			monitored		
	Established no	n-indigenous s	pecies		
	Elements	Mnemiopsis leidyi			
	monitored	GES criteria	D2C2 Establish	ned NIS	
		addressed	Parameters	Biomass	
			monitored		
	Adverse effects on species or habitats				
	Elements monitored	Mnemiopsis leidyi			
		GES criteria	D2C3 Adverse	effects of NIS	
		addressed	Parameters	INDEX-Biopollution	
			monitored	index	
Spatial zones	Territorial wat	ters			
monitored					
Start(and end) date of	1966-9999				
the programme					
Frequency of the	6-monthly				
monitoring					
Type of monitoring	In-situ samplir	ng coastal,			
	In-situ samplir	ng offshore			
Indicators to which the	2.1 - Number	of newly introd	uced species,		
programme	2.2 - Mnemio	osis leidyi biom	ass,		
contributes	2.3 - Biopollution index				



MONITORING	D6 SEA-FLOOR INTEGRITY/D1 BIODIVERSITY - BENTHIC
STRATEGY	HABITATS
Description of the	Monitoring in transects covering the Romanian shelf waters;
monitoring strategy	monitoring in relation to the relevant habitat distribution
Description of the gaps	Data collected are useful to MSFD monitoring for assessing the
and plans to complete	state of seabed habitats and future trends under natural and
the implementation of	climatic variability; usable in establishing/updating the
monitoring	environmental targets.
Monitoring	BLKRO-D1,4,6_SeabedHabitats_01
programmes that	
contribute to this	BLKRO-D1,2,3,4,6_SeabedHabitats_05
strategy	

MONITORING PROGRAMME	BLKRO-D1,4,6_SeabedHabitats_01 - Seabed habitats - distribution and extent			
Introduction/overview of programme	Monitoring in transects covering the Romanian shelf waters; monitoring in relation to the relevant habitat distribution			
Purpose of programme	Environmental state and impacts			
Other EU or international policies to which programme contributes	Habitats Directive			
Monitoring details	Data collected are useful in the MSFD monitoring to assess the distribution and extent of the seabed habitats and, also, for improving GES and targets definitions.			
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Ġ Google 📑 Facebook 🔤 INTRANET MSFD 🥥	Roundcube Webma 🖁 Rock FM	🔾 Europa FM LIVE – A 🧿 YouTube Music 👖 Welcome to Seeing » 📙 Other bookmarks		
characteristics				
BLKRO-D1,2,4,5_WaterColumn_04 -	Temporal Scope	2006-9999		
Pelagic habitats – community characteristics	Spatial Scope	Territorial waters		
BLKRO-D1,2,4_WaterColumn_05 - Pelagic habitats – community characteristics	Marine Reporting Unit	BLK_RO_RG_CT BLK_RO_RG_TT03 BLK_RO_RG_MT01		
BLKRO-D1,6,7_SeabedHabitats_02 - Seabed habitats - physical and chemical characteristics	Monitoring Purpose	Environmental state and impacts		
BLKRO-D2_PressureMarEnv_01 - Non- indigenous species - abundance and/or	Monitoring Type	In-situ sampling coastal In-situ sampling offshore		
biomass BLKRO-D1,4,6_SeabedHabitats_01 - Seabed habitats - distribution and extent	Monitoring Details	Data collected are useful in the MSFD monitoring to assess the distribution and extent of the seabed habitats and, also, for improving GES and targets definitions.		
BLKRO-D1,2,3,4,6_SeabedHabitats_05 - Seabed habitats - community characteristics	Monitoring Method	Black Sea: Manual for Quantitative Sampling and Sample Treatment of Marine Soft-Bottom Macrozoobenthos (link not working) Other monitoring method		
BLKRO-D11_PressureMarEnv_15 - Impulsive underwater noise - distribution,	Monitoring Method Other	Todorova V. and Konsulova T., 2005; Gray, J.,S., Mcintyre, A.,D., and Štirn, J., 1992		
requency and levels	Quality Control	Unknown		
BLKRO-D11_PressureMarEnv_16 -				



components, anthropogenic pressures and activities monitoredElements monitoredInfralittoral sauGES criteria addressedD6C4 Benthic - bitat extentAddressedParameters monitoredExtentCircalittoral saudCircalittoral saudD6C4 Benthic - bitat extentGES criteria addressedD6C4 Benthic - bitat extentGES criteria addressedD6C4 Benthic - bitat extentFarameters monitoredExtent				
anthropogenic pressures and activities monitored GES criteria addressed addressed Parameters Extent Circalittoral sand GES criteria addressed Parameters Extent Circalittoral sand Circalittoral sand Circalitt	components,			
pressures and activities monitored addressed Parameters monitored Extent Circalittoral sand Circalittoral sand D6C4 Benthic habitat extent GES criteria addressed Parameters monitored Extent Mathematical sand Parameters monitored Extent	anthropogenic			
Monitored Monitored Circalittoral sand GES criteria addressed D6C4 Benthic bitat extent Parameters monitored Extent	pressures and activities			
Circalittoral sand GES criteria addressed Parameters monitored Extent	monitored			
GES criteria addressed Parameters monitored				
addressed Parameters Extent monitored				
monitored				
Circalittoral mud				
GES criteria D6C4 Benthic habitat extent				
addressed Parameters Extent				
monitored				
Infralittoral mud				
GES criteria D6C4 Benthic habitat extent				
addressed Parameters Extent				
monitored				
Offshore circalittoral mud				
GES criteria D6C4 Benthic habitat extent				
addressed Parameters Extent				
monitored				
Spatial zones Territorial waters	Spatial zones			
monitored	monitored			
Start(and end) date of 2006-9999	Start(and end) date of			
the programme	the programme			
Frequency of the Yearly	Frequency of the			
monitoring	monitoring			
in-situ sampling coastal,	Type of monitoring			
In-Situ Sampling Onshore	Indicators to which the			
brogrammo	nucators to which the			
contributes	contributes			

MONITORING	BLKRO-D1,2,3,4,6_SeabedHabitats_05 - Seabed habitats -			
PROGRAMME	community characteristics			
Introduction/overview	Monitoring in transects covering the Romanian shelf waters;			
of programme	monitoring in relation to the relevant habitat distribution			
Purpose of programme	Environmental state and impacts			
Other EU or	Habitats Directive			
international policies				
to which programme				
contributes				
Monitoring details	Data collected are useful to MSFD monitoring for assessing the			
	state of seabed habitats and future trends under natural and			
	climatic variability; usable in establishing/updating the			
	environmental targets.			



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characteristics	Temporal Scope	2000-9999			
BLKRO-D1,2,4,5_WaterColumn_04 - Pelagic habitats – community characteristics	Spatial Scope	Territorial waters			
BLKRO-D1,2,4_WaterColumn_05 - Pelagic habitats – community characteristics	Marine Reporting Unit	BLK_RO_RG_CT BLK_RO_RG_TT03 BLK_RO_RG_MT01			
BLKRO-D1,6,7_SeabedHabitats_02 - Seabed habitats - physical and chemical characteristics	Monitoring Purpose	Environmental state and impacts			
BLKRO-D2_PressureMarEnv_01 - Non- indigenous species - abundance and/or biomass	Monitoring Type	In-situ sampling coastal In-situ sampling offshore			
BLKRO-D1,4,6_SeabedHabitats_01 - Seabed habitats - distribution and extent	Monitoring Details	Data collected are useful to MSFD monitoring for assessing the state of seabed habitats and future trends under natural and climatic variability; usable in establishing/updating the environmental targets. Black Sea: Manual for Quantitative Sampling and Sample Treatment of Marine Soft-Bottom Macrozoobenthos (link not working)			
BLKRO-D1,2,3,4,6_SeabedHabitats_05 - Seabed habitats - community characteristics	Monitoring Method				
BLKRO-D11 PressureMarEnv 15 -	Monitoring Method Other				
Impulsive underwater noise - distribution, frequency and levels	Quality Control	Unknown			
BLKRO-D11_PressureMarEnv_16 -	Monitoring	Yearly			
Ecosystem	Benthic broad habitats				
components,	Elements	Infralittoral sa	ind		
anthropogenic	monitored	GES criteria	D6C5 Benthic	habitat condition	
pressures and activities		addressed	Parameters	INDEX-M-AMBI*(n)	
monitored			monitored		
		Circalittoral sa	and		
		GFS criteria	D6C5 Benthic	habitat condition	
		addressed	Parameters INDEX-M-AMBI*(n)		
		uuuresseu	monitored		
		Circalittoral mud			
		GES criteria	D6C5 Benthic	habitat condition	
		addressed	Parameters		
		auuresseu	monitorod		
		Offebore sizes	littoral mud		
				habitat condition	
		GES criteria	Doco Bentnic		
		auuressed	Parameters	INDEX-IVI-AIVIBI*(N)	
Creatial	Tamilad	• • • • •	monitored		
Spatial zones	i erritorial wa	lers			
monitored	2000 0000				
Start(and end) date of	2000-9999				
the programme					
Frequency of the	Yearly				
monitoring					
Type of monitoring	In-situ sampling coastal,				
Indicators to which the	652-M_AM	RI*(n)			
nrogrammo					
programme					
contributes					



MONITORING	BLKRO-D1,2,3,4,6 SeabedHabitats 05 - Seabed habitats -				
PROGRAMME		commun	ity characterist	tics	
Introduction/overview	Monitoring in	transects cove	ering the Roma	nian coastal waters;	
of programme	monitoring in	relation to the	relevant habita	at distribution	
Purpose of programme	Environmental state and impacts				
Other EU or	Habitats Directive				
international policies					
to which programme					
contributes					
Monitoring details	Data collected are useful to MSFD monitoring for assessing the				
	state of seabed habitats and future trends under natural and				
	climatic variability; usable in establishing/updating the				
	environmental targets.				
Ecosystem	Benthic broad	habitats			
components,	Elements	Infralittoral sa	nd		
anthropogenic	monitored	GES criteria	D6C5 Benthic	habitat condition	
pressures and activities		addressed	Parameters	INDEX EI	
monitored		monitored			
		Infralittoral rock and biogenic reef			
		GES criteria	D6C5 Benthic	habitat condition	
		addressed	Parameters	INDEX EI	
		(monitored		
Spatial zones monitored	Coastal waters (WFD)				
Start(and end) date of	2009-9999				
the programme					
Frequency of the	Yearly				
monitoring	,				
Type of monitoring	In-situ sampling coastal				
Indicators to which the	6.5.2 - El				
programme					
contributes					