



Romania Report on the 2026 Update of Article 11 Monitoring Programmes

Marine Strategy Framework Directive 2008/56/EC

Text report accompanying the 2026 Reportnet 3 data submission

October 2026

REZUMAT

Raportarea privind actualizarea programelor de monitorizare în 2026

Sinteză conform articolelor 11 și 17 ale Directivei-cadru Strategia pentru mediul marin (DCSMM)

Directiva-cadru Strategia pentru mediul marin urmărește atingerea și menținerea stării ecologice bune a mediului marin, inclusiv în regiunea Mării Negre. Strategia marină a României cuprinde evaluarea stării mediului, determinarea stării ecologice bune și stabilirea obiectivelor de mediu (articolele 8, 9 și 10), monitorizarea ecosistemului și a presiunilor antropice (articolul 11), programul de măsuri și eventualele excepții (articolele 13 și 14), precum și cooperarea regională (articolul 6).

În temeiul articolului 17 alineatul (2), strategiile marine se actualizează la fiecare șase ani. Raportarea din 2026 actualizează programele de monitorizare din ciclul 2020 și ține seama de evaluarea, determinarea stării ecologice bune și obiectivele de mediu raportate în 2024 conform articolelor 8, 9 și 10. Actualizarea a fost pregătită de Institutul Național de Cercetare-Dezvoltare Marină „Grigore Antipa” Constanța, în contextul responsabilităților Ministerului Mediului, Apelor și Pădurilor. Cooperarea regională este raportată prin Comisia pentru Protecția Mării Negre.

În Reportnet 3, raportarea electronică pentru articolul 11 este organizată în trei seturi de date: informații despre raportor, programe de monitorizare și strategii de monitorizare. Metadatele strategiilor cuprind autoritatea competentă, organizațiile responsabile, cooperarea regională și informațiile privind consultarea publică. Raportul text se transmite printr-un flux separat, destinat documentelor justificative. Fișierele României pentru 2026 conțin 13 strategii și 24 de programe de monitorizare.

Monitorizarea cuprinde transecte costiere și de larg, observații în zone influențate de Dunăre și de activitățile de pe coastă, precum și serii de timp la stația Mamaia. Programele acoperă biodiversitatea, habitatele pelagice și bentale, speciile neindigene, peștii de interes comercial, eutrofizarea, contaminanții, deșeurile marine, modificările hidrografice și zgomotul subacvatic. Unele programe contribuie la mai mulți descriptori.

Actualizarea pentru D4/D1 integrează date despre plancton, pești și comunități bentale pentru evaluarea rețelelor trofice și face legătura cu prima evaluare a criteriilor D4C1 și D4C2 raportată în 2024. Pentru D8 este prevăzută menținerea monitorizării contaminanților și dezvoltarea metodelor privind efectele biologice până în 2030. Pentru D10 sunt raportate

deșeurile de pe plaje și de pe fundul mării, iar monitorizarea microdeșeurilor de pe țărm contribuie la D10C2. La D11 continuă dezvoltarea registrului de zgomot impulsiv și investigarea zgomotului continuu; pragurile pentru evaluarea stării ecologice bune rămân nedefinite în informațiile raportate.

Informațiile raportate vor servi evaluării Comisiei în temeiul articolului 12 și analizei coerenței monitorizării la nivel regional.

Strategiile de monitorizare raportate în 2026

- **D8** – Contaminanți
- **D9** – Contaminanți în alimente marine
- **D5** – Eutrofizare
- **D10** – Deșeuri marine
- **D3** – Pești și crustacee de interes comercial
- **D11** – Zgomot subacvatic
- **D1M** – Biodiversitate – mamifere marine
- **D1F** – Biodiversitate – pești
- **D1P** – Biodiversitate – habitate pelagice
- **D7** – Modificări hidrografice
- **D2** – Specii neindigene
- **D6/D1** – Integritatea fundului mării și habitate bentale
- **D4/D1** – Rețele trofice și biodiversitatea ecosistemelor

Programele de monitorizare raportate în 2026

- **BLKRO-D8_PressureMarEnv_03** – Nivelurile contaminanților în apă /sedimente
- **BLKRO-D8_PressureMarEnv_05** – Nivelurile contaminanților în apă / sedimente
- **BLKRO-D8,9_PressureMarEnv_07** – Nivelurile contaminanților în organisme, inclusiv în specii destinate consumului uman
- **BLKRO-D1,2,4,5,6_SeabedHabitats_08** – Habitate bentale – caracteristicile comunităților de macroalge și angiosperme
- **BLKRO-D1,4,5_WaterColumn_07** – Înfloriri planctonice – biomasă și frecvență
- **BLKRO-D1,5,7_WaterColumn_01** – Coloana de apă – caracteristici fizice
- **BLKRO-D1,5,7_WaterColumn_03** – Coloana de apă – caracteristici chimice
- **BLKRO-D5_PressureMarEnv_02** – Nutrienți și materie organică în coloana de apă
- **BLKRO-D1,2,3,4,6_SeabedHabitats_05** – Habitate bentale – caracteristicile comunităților macrozoobentale

- **BLKRO-D10_PressureMarEnv_13** – Deșeuri de pe plaje, inclusiv microdeșeuri de pe țărm
- **BLKRO-D10_PressureMarEnv_14** – Deșeuri de pe fundul mării
- **BLKRO-D1,3_Mobile SpeciesFish_13** – Pești – mortalitate și vătămări asociate pescuitului
- **BLKRO-D3_Mobile SpeciesFish_09** – Specii de pești de interes comercial – distribuție, abundență și biomasă
- **BLKRO-D3_Mobile SpeciesFish_11** – Specii de pești de interes comercial – caracteristici ale populațiilor
- **BLKRO-D11_PressureMarEnv_15** – Zgomot subacvatic impulsiv – distribuție, frecvență și niveluri
- **BLKRO-D11_PressureMarEnv_16** – Zgomot subacvatic continuu – distribuție, frecvență și niveluri
- **BLKRO-D1_Mobile SpeciesMammals_04** – Mamifere marine – capturi accidentale și eșuări
- **BLKRO-D1, 4_Mobile SpeciesFish_10** – Pești – caracteristici ale populațiilor
- **BLKRO-D1,2,4_Mobile SpeciesFish_08** – Pești – distribuție, abundență și biomasă
- **BLKRO-D1,2,4,5_WaterColumn_04** – Habitate pelagice – comunități fitoplanctonice
- **BLKRO-D1,2,4_WaterColumn_05** – Habitate pelagice – comunități zooplanctonice
- **BLKRO-D1,6,7_SeabedHabitats_02** – Habitate bentale – caracteristici fizice și chimice și presiuni fizice
- **BLKRO-D2_PressureMarEnv_01** – Specii neindigene – abundență și biomasă
- **BLKRO-D1,4,6_SeabedHabitats_01** – Habitate bentale – distribuție și extindere

1. Scope and reporting basis

This report presents Romania's 2026 update of the monitoring programmes established under Article 11 of the Marine Strategy Framework Directive. It describes the monitoring strategies for each reported descriptor and the practical programmes that support them, reflecting the 2026 Strategies and Programmes datasets prepared for Reportnet 3.

The 2026 datasets comprise 13 monitoring strategy records and 24 monitoring programme records. The programmes contain 195 reported features, element and GES criterion links and 43 related indicator links. The same programme may serve several descriptors; it is described once in the programme catalogue and cross referenced from each relevant strategy.

Romania's monitoring combines coastal and offshore sampling, established observations and administrative data. Transects across the Romanian shelf address gradients associated with the Danube and coastal pressures, while long time series, including the Mamaia

Bay station, support assessment of natural variability and trends. The precise scope, frequency, methods and reporting units of each programme are given in Section 3.

1.1 Administrative and regional context

Responsible competent authority	Ministry of Environment, Waters and Forests
Responsible organisation	National Institute for Marine Research and Development (NIMRD) Grigore Antipa, Constanta
Relationship to authority	Public research organisation
Regional cooperation	Black Sea Commission
Public consultation period	19 October – 19 November 2026
Public consultation site	http://www.mmediu.ro

1.2 Reading the programme information

All 24 programme records have the update type “Same as previous programme” in the 2026 dataset. This is the classification used in the structured submission; the strategy descriptions and programme links below retain the specific 2026 content, with the temporal scope denoting an ongoing programme in the source data.

The programme catalogue reports the monitoring details, spatial and temporal scope, frequency, type, methods, quality control, regional coordination and related indicators. Each programme entry includes its reported feature, element, GES criterion and parameter records from the 2026 Programme workbook.

2. MONITORING STRATEGIES

The strategies are presented in the thematic order previously used by Romania's 2020 text report. The source descriptors and links to programme codes are retained exactly as recorded in the 2026 Strategies dataset.

2.1. D8 Contaminants

Monitoring in transects perpendicular to coast, evenly distributed and around hotspots. Variation in relation to risk across the area (coastal/offshore, pressure related);

Contributing programme codes	BLKRO-D8_PressureMarEnv_03; BLKRO-D8_PressureMarEnv_05; BLKRO-D8,9_PressureMarEnv_07
Related target codes	8.1.1; 8.1.2; 8.1.3; 8.1.4
Related measures	RO-MN-020 - Managing and reducing diffuse pollution sources, including atmospheric deposits
Coverage of GES criteria	2014
Coverage of targets	2014
Coverage of measures	2014
Gaps and plans	Maintaining the continuity of contaminants monitoring. Implementing some biological-effect methods (biomarkers) in order to introduce them in the monitoring programme until 2030.

2.2. D9 Contaminants in seafood

Monitoring activities cover Romanian marine waters. Contaminant levels are assessed mainly in molluscs, sampled from monitoring stations during research cruises.

Contributing programme codes	BLKRO-D8,9_PressureMarEnv_07
Related target codes	9.1.1; 9.1.2; 9.1.3
Related measures	RO-MN-020 - Managing and reducing diffuse pollution sources, including atmospheric deposits
Coverage of GES criteria	2014
Coverage of targets	2014

Coverage of measures	2014
Gaps and plans	Expand number of samples and species monitored

2.3. D5 Eutrophication

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 (Mamaia Bay) starting with 1959, still ongoing, to assess trends based on long-term data series.

Contributing programme codes	BLKRO-D1,2,4,5,6_SeabedHabitats_08; BLKRO-D1,4,5_WaterColumn_07; BLKRO-D1,5,7_WaterColumn_01; BLKRO-D1,5,7_WaterColumn_03; BLKRO-D5_PressureMarEnv_02; BLKRO-D1,2,3,4,6_SeabedHabitats_05
Related target codes	5.1.1; 5.1.2; 5.1.3; 5.1.4; 5.2.1; 5.2.2; 5.2.3; 5.3.1; 5.3.2; 5.3.3; 5.4.1; 5.4.2; 5.4.3; 5.4.4; 5.5.1; 5.5.2; 5.5.3; 5.6
Related measures	RO-MN-020 - Managing and reducing diffuse pollution sources, including atmospheric deposits
Coverage of GES criteria	2014
Coverage of targets	2014
Coverage of measures	2014
Gaps and plans	Improve assessment of variation in relation to risk across the area (pressure related);

2.4. D10 Marine litter

Beach litter - 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); Seafloor litter - monitoring in transects, covering the Romanian shelf waters (assessed along with demersal fish monitoring); Coastline micro-litter monitoring contributes to D10C2 and indicator 10.2.1 through the coastal litter programme.

Contributing programme codes	BLKRO-D10_PressureMarEnv_13; BLKRO-D10_PressureMarEnv_14
Related target codes	10.1.1; 10.1.2

Related measures	RO-MN-024 - Improvement of the waste management from ships; RO-MN-026 - Facilitating and implementing 'Fishing for litter' practices; RO-MN-027 - Identification of accumulation zones of plastic marine litter in the marine environment and development of an action plan to address the issue
Coverage of GES criteria	2018
Coverage of targets	2018
Coverage of measures	2018
Gaps and plans	Need to improve frequency and monitoring transects

2.5. D3 Commercial fish and shellfish

Monitoring in transects perpendicular to coast; Monitoring the fishing practiced along of the coastline

Contributing programme codes	BLKRO-D1,3_Mobile SpeciesFish_13; BLKRO-D3_Mobile SpeciesFish_09; BLKRO-D3_Mobile SpeciesFish_11
Related target codes	3.1.1; 3.1.3; 3.2.1; 3.2.3; 3.3.1; 3.3.3
Related measures	RO-MN-016 - Promoting and stimulating (including financially) fishing and shellfish collection in environmentally friendly conditions; RO-MN-017 - Development of the regional multiannual management plan regarding fish stocks; RO-MN-018 - Implementation of the control procedure regarding turbot gillnets; RO-MN-019 - Defining and revision of period and prohibition areas of fish population – fish stock
Coverage of GES criteria	2014
Coverage of targets	2014
Coverage of measures	2014
Gaps and plans	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

2.6. D11 Underwater noise

Descriptor 11 on Romanian territorial waters is at the beginning. For Descriptor 11, the good ecological status and threshold levels for underwater noise were not assessed.

Contributing programme codes	BLKRO-D11_PressureMarEnv_15; BLKRO-D11_PressureMarEnv_16
Related measures	RO-MN-028 - Development of specific norms regarding noise level produced by ships engines, in particular for the ships operating in the MPAs; RO-MN-029 - Development of an impulsive noise register for Romanian littoral of the Black Sea
Coverage of GES criteria	2030
Coverage of measures	2030
Gaps and plans	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. 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 is monitored with specific equipment. The preliminary 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.

2.7. D1M Biodiversity marine mammals

Monitoring of number of incidents on the beaches along the coast. Monitoring by quantifying bycatch (or damage) on a fishery-by-fishery basis. Available population-abundance information also contributes to D1C2 assessment for the three cetacean species.

Contributing programme codes	BLKRO-D1_Mobile SpeciesMammals_04
Related target codes	1.1
Related measures	RO-MN-001 - Creating the necessary capacities regarding rescue operations for injured or sick cetaceans, supporting intervention activities for dead beached cetaceans, and establishing a practice

	code for rescue centers and laboratories involved in these activities; RO-MN-002 - Establishing and managing protected area for cetaceans, especially where their habitat and food are located; RO-MN-013 - Raising awareness (educational campaign) of local professional fisheries groups on the effective use of 'environmentally friendly' fishing techniques and equipment
Coverage of GES criteria	2018
Coverage of targets	2018
Coverage of measures	2018
Gaps and plans	Incidental caught and stranded individuals are investigated all around the year (not regularly), in different sites.

2.8. D1F Biodiversity fish

Monitoring in transects perpendicular to coast; Monitoring the fishing practiced along of the coastline.

Contributing programme codes	BLKRO-D1, 4_Mobile SpeciesFish_10; BLKRO-D1,2,4_Mobile SpeciesFish_08; BLKRO-D1,3_Mobile SpeciesFish_13
Related target codes	1.1.2; 1.2.1; 1.2.2; 1.3
Related measures	RO-MN-015 - Designation of areas for beam trawling, long-term observations on their impacts and modification of usage requirements when applicable; RO-MN-016 - Promoting and stimulating (including financially) fishing and shellfish collection in environmentally friendly conditions; RO-MN-018 - Implementation of the control procedure regarding turbot gillnets
Coverage of GES criteria	2014
Coverage of targets	2014
Coverage of measures	2014
Gaps and plans	Data collected in the frame of CFP-DC-MAP and BSC will be used in the MSFD monitoring to assess the fish mortality/injury rates from fisheries (targeted and/or incidental)

2.9. D1P Biodiversity pelagic habitats

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 (Mamaia Bay) to assess trends based on long-term data series.

Contributing programme codes	BLKRO-D1,2,4,5_WaterColumn_04; BLKRO-D1,2,4_WaterColumn_05
Related target codes	1.6.1.1; 1.6.1.2; 1.6.1.3; 1.6.1.4; 1.6.2.1; 1.6.2.2; 1.6.2.3; 1.6.3.1; 1.6.3.2; 1.6.3.3
Related measures	RO-MN-011 - Development of a joint action plan for early detection, mitigation and impact assessment of non-indigenous species; RO-MN-012 - Permanent updating of the list of marine non-indigenous species from the Black Sea; RO-MN-020 - Managing and reducing diffuse pollution sources, including atmospheric deposits
Coverage of GES criteria	2014
Coverage of targets	2014
Coverage of measures	2014
Gaps and plans	Data collected are useful to MSFD monitoring for assessing the pelagic community characteristics; data are usable in establishing/updating the environmental targets. Needs improvement of sampling frequency.

2.10. D7 Hydrographical changes

Monitoring in transects covering the Romanian shelf waters; monitoring in relation to the relevant habitat distribution

Contributing programme codes	BLKRO-D1,6,7_SeabedHabitats_02
Related target codes	7.2.1; 7.2.2
Related measures	RO-MN-031 - Monitoring of the bio-hydro-geomorphological changes in the new developed coastal protection areas (including borrow areas, artificially sandy beaches, artificial reefs, submerged and emerged coastal structures)

Coverage of GES criteria	2024
Coverage of targets	2024
Coverage of measures	2024
Gaps and plans	Data collected in the frame of WFD, Habitats and BSC are useful in the MSFD monitoring to assess the physical characteristics of the seabed habitats

2.11. D2 Non indigenous species

Monitoring in transects perpendicular to coast, evenly distributed and around hotspots

Contributing programme codes	BLKRO-D2_PressureMarEnv_01
Related target codes	2.1.1; 2.1.2; 2.1.3; 2.1.4; 2.2.1; 2.2.2; 2.2.3; 2.2.4; 2.3.1; 2.3.2; 2.3.3; 2.3.4
Related measures	RO-MN-011 - Development of a joint action plan for early detection, mitigation and impact assessment of non-indigenous species; RO-MN-012 - Permanent updating of the list of marine non-indigenous species from the Black Sea
Coverage of GES criteria	2014
Coverage of targets	2014
Coverage of measures	2014
Gaps and plans	Data collected from the existing national monitoring programme are useful in the MSFD monitoring to assess the NIS pressure in the marine environment

2.12. D6/D1 Sea floor integrity and benthic habitats

Monitoring in transects covering the Romanian shelf waters; monitoring in relation to the relevant habitat distribution

Contributing programme codes	BLKRO-D1,2,3,4,6_SeabedHabitats_05; BLKRO-D1,4,6_SeabedHabitats_01; BLKRO-D1,6,7_SeabedHabitats_02; BLKRO-D1,2,4,5,6_SeabedHabitats_08
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Related target codes	6.3.2.1; 6.3.2.2; 6.3.2.3; 6.4.1; 6.4.2; 6.4.3; 6.5.3
Related measures	RO-MN-007 - Drawing up of risk maps on the habitat of the marine protected areas NATURA 2000
Coverage of GES criteria	2014
Coverage of targets	2014
Coverage of measures	2014
Gaps and plans	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.

2.13. D4/D1 Food webs and biodiversity ecosystems

Food-web monitoring integrates pelagic-habitat, fish and benthic-habitat programmes to assess trophic-guild diversity (species composition and relative abundance) and the balance of total abundance among trophic guilds. The 2024 Article 8 report provided a first assessment for D4C1 and D4C2 in Romanian coastal, territorial and marine waters.

Contributing programme codes	BLKRO-D1, 4_Mobile SpeciesFish_10; BLKRO-D1,2,3,4,6_SeabedHabitats_05; BLKRO-D1,2,4,5,6_SeabedHabitats_08; BLKRO-D1,2,4,5_WaterColumn_04; BLKRO-D1,2,4_Mobile SpeciesFish_08; BLKRO-D1,2,4_WaterColumn_05; BLKRO-D1,4,5_WaterColumn_07; BLKRO-D1,4,6_SeabedHabitats_01
Related target codes	1.6.3.1; 1.6.3.2; 1.6.3.3; 4.1.1.1; 4.1.1.2; 4.1.1.3
Related measures	RO-MN-016 - Promoting and stimulating (including financially) fishing and shellfish collection in environmentally friendly conditions; RO-MN-017 - Development of the regional multiannual management plan regarding fish stocks; RO-MN-019 - Defining and revision of period and prohibition areas of fish population – fish stock
Coverage of GES criteria	2024
Coverage of targets	2030

Coverage of measures	2030
Gaps and plans	The 2024 Article 8 report contains a first assessment for D4C1 and D4C2. Continued integration of pelagic, fish and benthic data is needed to strengthen food-web assessment and provide adequate monitoring coverage for the related targets by 2030.

3. MONITORING PROGRAMMES

This catalogue gives one entry for each of the 24 reported programmes. It follows the thematic sequence of the previous text 2020 report while avoiding a second full description when a programme contributes to more than one strategy. The feature and element records corresponding to each code follow its programme description.

3.1 Contaminant levels - in water/sediment

BLKRO-D8_PressureMarEnv_03

Heavy metals and organic pollutants (TPH, PAH, OCP, PCB) are measured in seawater (surface horizon) / and sediments

Strategy links	D8
Monitoring purpose	Pressures in the marine environment
Spatial scope and reporting units	EEZ (or similar); BLK-RO-AA-CT; BLK-RO-AA-MT01; BLK-RO-AA-MT02; BLK-RO-AA-TT03
Period and frequency	2000-9999; Yearly
Monitoring type	In-situ sampling coastal; In-situ sampling offshore
Method codes	Other
Additional method	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.
Quality control as reported	Certified References Material
GES criteria linked to this programme	D8C1
Related indicators	8.1 — Contaminants in environment

Other policy or convention links	BSC
Regional coordination	BSC
Regional implementation	Common monitoring strategy
Dataset access	http://www.nodc.ro/

Monitored features, elements, GES criteria and parameters

Feature	Element or element 2	GES criterion	Parameter
PresEnvContNonUPBTs	Acenaphthene	D8C1	CONC-S; CONC-W
PresEnvContNonUPBTs	Acenaphtylene	D8C1	CONC-S; CONC-W
PresEnvContNonUPBTs	Aldrin	D8C1	CONC-S; CONC-W
PresEnvContNonUPBTs	Anthracene	D8C1	CONC-S; CONC-W
PresEnvContNonUPBTs	Benz(a)anthracene	D8C1	CONC-S; CONC-W
PresEnvContNonUPBTs	Cadmium and its compounds	D8C1	CONC-S; CONC-W
PresEnvContNonUPBTs	Chromium and its compounds	D8C1	CONC-S; CONC-W
PresEnvContNonUPBTs	Chrysene	D8C1	CONC-S; CONC-W
PresEnvContNonUPBTs	Copper and its compounds	D8C1	CONC-S; CONC-W
PresEnvContNonUPBTs	DDT, p,p'	D8C1	CONC-S; CONC-W
PresEnvContNonUPBTs	Dibenzo(a,h)anthracene	D8C1	CONC-S; CONC-W

Feature	Element or element 2	GES criterion	Parameter
PresEnvContNonUPBTs	Dieldrin	D8C1	CONC-S; CONC-W
PresEnvContNonUPBTs	Endrin	D8C1	CONC-S; CONC-W
PresEnvContNonUPBTs	Fluoranthene	D8C1	CONC-S; CONC-W
PresEnvContNonUPBTs	Fluorene	D8C1	CONC-S; CONC-W
PresEnvContNonUPBTs	Gamma-HCH (Lindane)	D8C1	CONC-S; CONC-W
PresEnvContNonUPBTs	Hexachlorobenzene	D8C1	CONC-S; CONC-W
PresEnvContNonUPBTs	Lead and its compounds	D8C1	CONC-S; CONC-W
PresEnvContNonUPBTs	Naphthalene	D8C1	CONC-S; CONC-W
PresEnvContNonUPBTs	Nickel and its compounds	D8C1	CONC-S; CONC-W
PresEnvContNonUPBTs	Non-dioxin like PCB (sum of 6 PCB: 28, 52, 101, 138, 153 and 180)	D8C1	CONC-S; CONC-W
PresEnvContNonUPBTs	p,p'-DDD	D8C1	CONC-S; CONC-W
PresEnvContNonUPBTs	p,p'-DDE	D8C1	CONC-S; CONC-W
PresEnvContNonUPBTs	Petroleum hydrocarbons	D8C1	CONC-S; CONC-W
PresEnvContNonUPBTs	Phenanthrene	D8C1	CONC-S; CONC-W
PresEnvContNonUPBTs	Pyrene	D8C1	CONC-S; CONC-W
PresEnvContNonUPBTs	Sum of p,p'-DDT (dichlorodiphenyltrichloroethane) and the metabolites p,p'-DDD	D8C1	CONC-S; CONC-W

Feature	Element or element 2	GES criterion	Parameter
	(dichlorodiphenyldichloroethane) and p,p'-DDE (dichlorodiphenyldichloroethylene)		
PresEnvContNonUPBTs	ΣPAH9: anthracene; benzo[a]anthracene; benzo[ghi]perylene; benzo[a]pyrene; chrysene; fluoranthene; indeno[1,2,3-cd]pyrene; pyrene; phenanthrene	D8C1	CONC-S; CONC-W
PresEnvContUPBTs	Benzo(a)pyrene	D8C1	CONC-S; CONC-W
PresEnvContUPBTs	Benzo(b)fluoranthene	D8C1	CONC-S; CONC-W
PresEnvContUPBTs	Benzo(g,h,i)perylene	D8C1	CONC-S; CONC-W
PresEnvContUPBTs	Benzo(k)fluoranthene	D8C1	CONC-S; CONC-W
PresEnvContUPBTs	Heptachlor	D8C1	CONC-S; CONC-W
PresEnvContUPBTs	Indeno(1,2,3,-cd)pyrene	D8C1	CONC-S; CONC-W
PresEnvContUPBTs	PCB 118 (2,3',4,4',5-pentachlorobiphenyl)	D8C1	CONC-S; CONC-W
PresEnvContUPBTs	Total PAHs (Benzo(a)pyrene, Benzo(b)fluoranthene, Benzo(k)fluoranthene, Benzo(ghi)perylene, Indeno(1,2,3-cd)pyrene)	D8C1	CONC-S; CONC-W

3.2 Contaminant levels - in water/sediment

BLKRO-D8_PressureMarEnv_05

Heavy metals and organic pollutants (TPH, PAH, OCP, PCB) are measured in seawater (surface horizon) / and sediment

Strategy links	D8
Monitoring purpose	Pressures in the marine environment
Spatial scope and reporting units	EEZ (or similar); BLK-RO-AA-CT; BLK-RO-AA-MT01; BLK-RO-AA-MT02; BLK-RO-AA-TT03
Period and frequency	2000-9999; Yearly
Monitoring type	In-situ sampling coastal; In-situ sampling offshore
Method codes	Other
Additional method	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.
Quality control as reported	Certified Reference Material
GES criteria linked to this programme	D8C1
Related indicators	8.1 — Contaminants in environment
Other policy or convention links	BSC
Regional coordination	BSC
Regional implementation	Common monitoring strategy
Dataset access	http://www.nodc.ro/

Monitored features, elements, GES criteria and parameters

Feature	Element or element 2	GES criterion	Parameter
PresEnvContNonUPBTs	Acenaphthene	D8C1	CONC-S; CONC-W
PresEnvContNonUPBTs	Acenaphtylene	D8C1	CONC-S; CONC-W

Feature	Element or element 2	GES criterion	Parameter
PresEnvContNonUPBTs	Aldrin	D8C1	CONC-S; CONC-W
PresEnvContNonUPBTs	Anthracene	D8C1	CONC-S; CONC-W
PresEnvContNonUPBTs	Benz(a)anthracene	D8C1	CONC-S; CONC-W
PresEnvContNonUPBTs	Cadmium and its compounds	D8C1	CONC-S; CONC-W
PresEnvContNonUPBTs	Chromium and its compounds	D8C1	CONC-S; CONC-W
PresEnvContNonUPBTs	Chrysene	D8C1	CONC-S; CONC-W
PresEnvContNonUPBTs	Copper and its compounds	D8C1	CONC-S; CONC-W
PresEnvContNonUPBTs	DDT, p,p'	D8C1	CONC-S; CONC-W
PresEnvContNonUPBTs	Dibenzo(a,h)anthracene	D8C1	CONC-S; CONC-W
PresEnvContNonUPBTs	Dieldrin	D8C1	CONC-S; CONC-W
PresEnvContNonUPBTs	Endrin	D8C1	CONC-S; CONC-W
PresEnvContNonUPBTs	Fluoranthene	D8C1	CONC-S; CONC-W
PresEnvContNonUPBTs	Fluorene	D8C1	CONC-S; CONC-W
PresEnvContNonUPBTs	Gamma-HCH (Lindane)	D8C1	CONC-S; CONC-W
PresEnvContNonUPBTs	Hexachlorobenzene	D8C1	CONC-S; CONC-W
PresEnvContNonUPBTs	Lead and its compounds	D8C1	CONC-S; CONC-W

Feature	Element or element 2	GES criterion	Parameter
PresEnvContNonUPBTs	Naphthalene	D8C1	CONC-S; CONC-W
PresEnvContNonUPBTs	Nickel and its compounds	D8C1	CONC-S; CONC-W
PresEnvContNonUPBTs	Non-dioxin like PCB (sum of 6 PCB: 28, 52, 101, 138, 153 and 180)	D8C1	CONC-S; CONC-W
PresEnvContNonUPBTs	p,p'-DDD	D8C1	CONC-S; CONC-W
PresEnvContNonUPBTs	p,p'-DDE	D8C1	CONC-S; CONC-W
PresEnvContNonUPBTs	Petroleum hydrocarbons	D8C1	CONC-S; CONC-W
PresEnvContNonUPBTs	Phenanthrene	D8C1	CONC-S; CONC-W
PresEnvContNonUPBTs	Pyrene	D8C1	CONC-S; CONC-W
PresEnvContNonUPBTs	Sum of p,p'-DDT (dichlorodiphenyltrichloroethane) and the metabolites p,p'-DDD (dichlorodiphenyldichloroethane) and p,p'-DDE (dichlorodiphenyldichloroethylene)	D8C1	CONC-S; CONC-W
PresEnvContNonUPBTs	ΣPAH9: anthracene; benzo[a]anthracene; benzo[ghi]perylene; benzo[a]pyrene; chrysene; fluoranthene; indeno[1,2,3-cd]pyrene; pyrene; phenanthrene	D8C1	CONC-S; CONC-W
PresEnvContUPBTs	Benzo(a)pyrene	D8C1	CONC-S; CONC-W
PresEnvContUPBTs	Benzo(b)fluoranthene	D8C1	CONC-S; CONC-W
PresEnvContUPBTs	Benzo(g,h,i)perylene	D8C1	CONC-S; CONC-W

Feature	Element or element 2	GES criterion	Parameter
PresEnvContUPBTs	Benzo(k)fluoranthene	D8C1	CONC-S; CONC-W
PresEnvContUPBTs	Heptachlor	D8C1	CONC-S; CONC-W
PresEnvContUPBTs	Indeno(1,2,3,-cd)pyrene	D8C1	CONC-S; CONC-W
PresEnvContUPBTs	PCB 118 (2,3',4,4',5-pentachlorobiphenyl)	D8C1	CONC-S; CONC-W
PresEnvContUPBTs	Total PAHs (Benzo(a)pyrene, Benzo(b)fluoranthene, Benzo(k)fluoranthene, Benzo(ghi)perylene, Indeno(1,2,3-cd)pyrene)	D8C1	CONC-S; CONC-W

3.3 Contaminant levels - in species, including seafood

BLKRO-D8,9_PressureMarEnv_07

Contaminants are monitored in molluscs from Romanian coastal, transitional and marine waters. The programme provides biota concentration data for environmental contamination assessment under D8C1 and seafood contamination assessment under D9C1.

Contaminant concentrations in molluscs support indicator 8.1 for D8C1 and indicator 9.1 for D9C1.

Strategy links	D8; D9
Monitoring purpose	Pressures in the marine environment
Spatial scope and reporting units	Territorial waters; BLK-RO-AA-CT; BLK-RO-AA-MT01; BLK-RO-AA-TT03
Period and frequency	2005-9999; Yearly
Monitoring type	In-situ sampling offshore
Method codes	Other
Additional method	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.
Quality control as reported	Certified reference materials
GES criteria linked to this programme	D8C1; D9C1
Related indicators	9.1 — Contaminants in seafood; 8.1 — Contaminants in environment
Other policy or convention links	BSC; Foodstuffs
Regional coordination	BSC
Regional implementation	Common monitoring strategy
Dataset access	http://www.nodc.ro

Monitored features, elements, GES criteria and parameters

Feature	Element or element 2	GES criterion	Parameter
PresEnvContSeafood	Benzo(a)pyrene; Mollusks	D9C1	CONC-B
PresEnvContSeafood	Cadmium and its compounds; Mollusks	D9C1	CONC-B
PresEnvContSeafood	Lead and its compounds; Mollusks	D9C1	CONC-B
PresEnvContSeafood	Non-dioxin like PCB (sum of 6 PCB: 28, 52, 101, 138, 153 and 180); Mollusks	D9C1	CONC-B
PresEnvContNonUPBTs	Cadmium and its compounds; Mollusks	D8C1	CONC-B
PresEnvContNonUPBTs	Hexachlorobenzene; Mollusks	D8C1	CONC-B
PresEnvContNonUPBTs	Lead and its compounds; Mollusks	D8C1	CONC-B
PresEnvContNonUPBTs	PCB 101 (2,2',4,5,5'-pentachlorobiphenyl); Mollusks	D8C1	CONC-B
PresEnvContNonUPBTs	PCB 138 (2,2',3,4,4',5'-hexachlorobiphenyl); Mollusks	D8C1	CONC-B
PresEnvContNonUPBTs	PCB 153 (2,2',4,4',5,5'-hexachlorobiphenyl); Mollusks	D8C1	CONC-B

Feature	Element or element 2	GES criterion	Parameter
PresEnvContNonUPBTs	PCB 180 (2,2',3,4,4',5,5'-heptachlorobiphenyl); Mollusks	D8C1	CONC-B
PresEnvContNonUPBTs	PCB 28 (2,4,4'-trichlorobiphenyl); Mollusks	D8C1	CONC-B
PresEnvContNonUPBTs	PCB 52 (2,2',5,5'-tetrachlorobiphenyl); Mollusks	D8C1	CONC-B
PresEnvContUPBTs	Heptachlor; Mollusks	D8C1	CONC-B
PresEnvContUPBTs	PCB 118 (2,3',4,4',5-pentachlorobiphenyl); Mollusks	D8C1	CONC-B
PresEnvContNonUPBTs	Fluoranthene; Mollusks	D8C1	CONC-B
PresEnvContUPBTs	Benzo(a)pyrene; Mollusks	D8C1	CONC-B
PresEnvContNonUPBTs	Naphthalene; Mollusks	D8C1	CONC-B
PresEnvContNonUPBTs	Phenanthrene; Mollusks	D8C1	CONC-B
PresEnvContNonUPBTs	Anthracene; Mollusks	D8C1	CONC-B
PresEnvContNonUPBTs	Pyrene; Mollusks	D8C1	CONC-B
PresEnvContNonUPBTs	Benz(a)anthracene; Mollusks	D8C1	CONC-B
PresEnvContUPBTs	Benzo(k)fluoranthene; Mollusks	D8C1	CONC-B
PresEnvContUPBTs	Benzo(g,h,i)perylene; Mollusks	D8C1	CONC-B
PresEnvContSeafood	Sum of PAHs (Benzo(a)pyrene, Benzo(b)fluoranthene, Benzo(k)fluoranthene, Indeno(1,2,3-cd)pyrene); Mollusks	D9C1	CONC-B

3.4 Seabed habitats - community characteristics

BLKRO-D1,2,4,5,6_SeabedHabitats_08

Monitoring activities related to the development of phyto-benthic communities in coastal waters

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. Macrophyte and angiosperm community monitoring also contributes to D5C7 and D6C5, including EI (6.5.1) and ZoNI (6.5.3) and the associated habitats reported in 2024.

Strategy links	D5; D6/D1; D4/D1
Monitoring purpose	Environmental state and impacts
Spatial scope and reporting units	Coastal waters (WFD); BLK-RO-AA-CT
Period and frequency	2009-9999; Yearly
Monitoring type	In-situ sampling coastal
Method codes	HEL-032
Quality control as reported	No validation of data
GES criteria linked to this programme	D5C6; D5C7; D6C5
Related indicators	6.5.1 — EI; 6.5.3 — ZoNI; 5.6 — Biomass proportion of opportunistic species from total biomass
Regional coordination	BSC
Regional implementation	Common monitoring strategy
Dataset access	http://www.nodc.ro/

Monitored features, elements, GES criteria and parameters

Feature	Element or element 2	GES criterion	Parameter
PresEnvEutrophi	Benthic habitats - opportunistic macroalgae	D5C6	INDEX
PresEnvEutrophi	Benthic habitats - macrophyte communities	D5C7	INDEX
HabBenOther	Infralittoral rock with <i>Gongolaria barbata</i>	D6C5	INDEX
HabBenOther	[<i>Zostera</i>] beds in infralittoral sediments	D6C5	INDEX
HabBenOther	<i>Coccotylus brodiei</i> in infralittoral rock	D6C5	INDEX

Feature	Element or element 2	GES criterion	Parameter
HabBenOther	Infralittoral rock with annual red and green algae	D6C5	INDEX

3.5 Plankton blooms (biomass, frequency)

BLKRO-D1,4,5_WaterColumn_07

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 (Mamaia Bay) starting with 1959, still ongoing, to assess trends based on long-term data series; Ad hoc monitoring of bloom events

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.

Strategy links	D5; D4/D1
Monitoring purpose	Environmental state and impacts
Spatial scope and reporting units	EEZ (or similar); BLK-RO-AA-CT; BLK-RO-AA-MT01; BLK-RO-AA-TT03
Period and frequency	1959-9999; Yearly
Monitoring type	In-situ sampling coastal; In-situ sampling offshore
Method codes	Other
Additional method	Utermöhl, 1958, Moncheva and Parr, 2010-phytoplankton; Scientific Committee on Oceanic Research (SCOR)-UNESCO, 1966; Aminot and Rey, 2002 -chlorophyll; UNESCO, 1988 - CTD fluorescence; satellite images (algal blooms)
Quality control as reported	Utermöhl, 1958, Moncheva and Parr, 2010-phytoplankton; Scientific Committee on Oceanic Research (SCOR)-UNESCO, 1966; Aminot and Rey, 2002 -chlorophyll;
GES criteria linked to this programme	D5C2; D5C3
Related indicators	5.2 — Chlorophyll a; 5.3 — <i>Noctiluca scintillans</i> biomass

Regional coordination	BSC
Regional implementation	Common monitoring strategy
Dataset access	http://www.nodc.ro/

Monitored features, elements, GES criteria and parameters

Feature	Element or element 2	GES criterion	Parameter
PresEnvEutrophi	Chlorophyll-a	D5C2	CONC-W
PresEnvEutrophi	Noctiluca scintillans	D5C3	BIOM

3.6 Water column – physical characteristics

BLKRO-D1,5,7_WaterColumn_01

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);

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.

Strategy links	D5
Monitoring purpose	Environmental state and impacts
Spatial scope and reporting units	EEZ (or similar); BLK-RO-AA-CT; BLK-RO-AA-MT01; BLK-RO-AA-MT02; BLK-RO-AA-TT03
Period and frequency	1959-9999; Yearly
Monitoring type	Visual observation
Method codes	HEL-032
Quality control as reported	No validation of data

GES criteria linked to this programme	D5C4
Related indicators	5.4 — Transparency
Regional coordination	BSC
Regional implementation	Common monitoring strategy
Dataset access	http://www.nodc.ro/

Monitored features, elements, GES criteria and parameters

Feature	Element or element 2	GES criterion	Parameter
PresEnvEutrophi	Transparency	D5C4	TRA

3.7 Water column – chemical characteristics

BLKRO-D1,5,7_WaterColumn_03

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 (Mamaia Bay) starting with 1959, still ongoing, to assess trends based on long-term data series.

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.

Strategy links	D5
Monitoring purpose	Environmental state and impacts
Spatial scope and reporting units	EEZ (or similar); BLK-RO-AA-CT; BLK-RO-AA-MT01; BLK-RO-AA-MT02; BLK-RO-AA-TT03
Period and frequency	1959-9999; Yearly
Monitoring type	In-situ sampling coastal; In-situ sampling offshore
Method codes	Other

Additional method	nutrients - Grashhoff et al, 1998 onboard oxygen - Winkler method (Grashhoff et al., 1998) CTD oxygen, pH - UNESCO, 1988 TOC - Suzuki and Sugimura, 1988
Quality control as reported	Control charts; Certified References Material; QUASIMEME CTD calibration
GES criteria linked to this programme	D5C1; D5C5
Related indicators	5.1.1 — DIP; 5.1.2 — DIN; 5.5 — Bottom dissolved oxygen
Regional coordination	BSC
Regional implementation	Common monitoring strategy
Dataset access	http://www.nodc.ro/

Monitored features, elements, GES criteria and parameters

Feature	Element or element 2	GES criterion	Parameter
PresEnvEutrophi	DIN	D5C1	CONC-W
PresEnvEutrophi	DIP	D5C1	CONC-W
PresEnvEutrophi	Dissolved oxygen (O2)	D5C5	CONC-W

3.8 Nutrient and organic matter levels - in water column

BLKRO-D5_PressureMarEnv_02

Monitoring in transects perpendicular to coast, evenly distributed and around hotspots.

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.

Strategy links	D5
Monitoring purpose	Pressures in the marine environment
Spatial scope and reporting units	EEZ (or similar); BLK-RO-AA-CT; BLK-RO-AA-MT01; BLK-RO-AA-MT02; BLK-RO-AA-TT03

Period and frequency	1985-9999; Yearly
Monitoring type	In-situ sampling coastal; In-situ sampling offshore
Method codes	Other
Additional method	Grasshoff et al, 1998 (nutrients) Suzuki and Sugimura, 1988 (TOC)
Quality control as reported	Control charts; Certified References Material; QUASIMEME
GES criteria linked to this programme	D5C1
Related indicators	5.1.1 — DIP; 5.1.2 — DIN
Regional coordination	BSC
Regional implementation	Common monitoring strategy
Dataset access	http://www.nodc.ro/

Monitored features, elements, GES criteria and parameters

Feature	Element or element 2	GES criterion	Parameter
PresEnvEutrophi	DIN	D5C1	CONC-W
PresEnvEutrophi	DIP	D5C1	CONC-W

3.9 Seabed habitats - community characteristics

BLKRO-D1,2,3,4,6_SeabedHabitats_05

Monitoring in transects covering the Romanian shelf waters; monitoring in relation to the relevant habitat distribution

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. Macrozoobenthic community indices also contribute to D5C8 and D6C3. The habitat list includes infralittoral mud and circalittoral/offshore mixed sediments represented in the 2024 assessment.

Strategy links	D5; D6/D1; D4/D1
Monitoring purpose	Environmental state and impacts
Spatial scope and reporting units	EEZ (or similar); BLK-RO-AA-CT; BLK-RO-AA-MT01; BLK-RO-AA-TT03
Period and frequency	2000-9999; Yearly
Monitoring type	In-situ sampling coastal; In-situ sampling offshore
Method codes	BSC-003
Quality control as reported	Unknown
GES criteria linked to this programme	D5C8; D6C3; D6C5
Related indicators	6.5.2 — M-AMBI*(n)
Other policy or convention links	HD
Regional coordination	BSC
Regional implementation	Common monitoring strategy
Dataset access	http://www.nodc.ro

Monitored features, elements, GES criteria and parameters

Feature	Element or element 2	GES criterion	Parameter
HabBenBHT	Circalittoral mud	D6C5	INDEX
HabBenBHT	Circalittoral sand	D6C5	INDEX
HabBenBHT	Infralittoral sand	D6C5	INDEX
HabBenBHT	Offshore circalittoral mud	D6C5	INDEX
PresEnvEutrophication	Benthic habitats - macrobenthic communities	D5C8	INDEX
HabBenBHT	Infralittoral sand	D6C3	INDEX

Feature	Element or element 2	GES criterion	Parameter
HabBenBHT	Circalittoral mud	D6C3	INDEX
HabBenBHT	Circalittoral mixed sediment	D6C3	INDEX
HabBenBHT	Circalittoral sand	D6C3	INDEX
HabBenBHT	Offshore circalittoral mixed sediment	D6C3	INDEX
HabBenBHT	Infralittoral mud	D6C3	INDEX
HabBenBHT	Circalittoral mixed sediment	D6C5	INDEX
HabBenBHT	Offshore circalittoral mixed sediment	D6C5	INDEX
HabBenBHT	Infralittoral mud	D6C5	INDEX

3.10 Litter - characteristics and abundance/volume on coast, water surface, seabed

BLKRO-D10_PressureMarEnv_13

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)

Data collected are useful in the MSFD monitoring for assessing the litter on the beaches, thus for establishing/updating targets and GES. Coastline micro-litter data also contribute to D10C2 and indicator 10.2.1. The programme reports the coastline component of this indicator.

Strategy links	D10
Monitoring purpose	Pressures in the marine environment
Spatial scope and reporting units	Terrestrial part of MS; BLK-RO-AA-CT
Period and frequency	2013-9999; Yearly
Monitoring type	In-situ sampling land/beach
Method codes	Other
Additional method	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/JRC8398

	5/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/
Quality control as reported	No validation of data
GES criteria linked to this programme	D10C1; D10C2
Related indicators	10.1.1 — Number of litter items per 100m beach; 10.2.1 — Micro-litter on the coastline, in the surface layer of the water column and in the seabed sediments
Regional coordination	BSC
Regional implementation	Common monitoring strategy
Dataset access	http://www.nodc.ro/

Monitored features, elements, GES criteria and parameters

Feature	Element or element 2	GES criterion	Parameter
PresEnvLitter	Litter in the environment	D10C1	AMO-C
PresEnvLitterMicro	Micro-litter	D10C2	AMO-C

3.11 Litter - characteristics and abundance/volume on coast, water surface, seabed

BLKRO-D10_PressureMarEnv_14

Monitoring in transects, covering the Romanian shelf waters (along with demersal fish monitoring)

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

Strategy links	D10
Monitoring purpose	Pressures in the marine environment

Spatial scope and reporting units	Territorial waters; BLK-RO-AA-MT01
Period and frequency	2013-9999; Yearly
Monitoring type	In-situ sampling offshore
Method codes	Other
Additional method	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 ;
Quality control as reported	No validation of data
GES criteria linked to this programme	D10C1
Related indicators	10.1.2 — Weight of litter per m2 of seabed
Regional coordination	BSC
Regional implementation	Common monitoring strategy
Dataset access	http://www.nodc.ro/

Monitored features, elements, GES criteria and parameters

Feature	Element or element 2	GES criterion	Parameter
PresEnvLitter	Litter in the environment	D10C1	AMO-SB

3.12 Mobile species – mortality/injury rates from fisheries (targeted and/or incidental)

BLKRO-D1,3_Mobile SpeciesFish_13

Monitoring in transects perpendicular to coast; Monitoring the fishing practiced along of the coastline.

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.

Strategy links	D3; D1F
Monitoring purpose	Environmental state and impacts
Spatial scope and reporting units	EEZ (or similar); BLK-RO-AA-CT; BLK-RO-AA-MT01; BLK-RO-AA-TT03
Period and frequency	2000-9999; Monthly
Monitoring type	In-situ sampling coastal; In-situ sampling offshore
Method codes	Other
Additional method	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
Quality control as reported	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;
GES criteria linked to this programme	D1C1; D1C2; D3C1
Related indicators	1.1.2 — Fishing mortality rate in marine waters; 3.1 — Fishing mortality rate; 1.2.3 — Total abundance of fish species from incidental by-catch
Other policy or convention links	BSC; CFP-DCF-MAP; HD
Regional coordination	BSC
Regional implementation	Common monitoring strategy
Dataset access	http://www.nodc.ro

Monitored features, elements, GES criteria and parameters

Feature	Element or element 2	GES criterion	Parameter
FishCommercial	<i>Engraulis encrasicolus</i>	D3C1	MOR/F
FishCommercial	<i>Merlangius merlangus</i>	D3C1	MOR/F
FishCommercial	<i>Mullus barbatus</i>	D3C1	MOR/F
FishCommercial	<i>Sprattus sprattus</i>	D3C1	MOR/F
FishCommercial	<i>Squalus acanthias</i>	D3C1	MOR/F
FishDemersalShelf	<i>Merlangius merlangus</i>	D1C1	MOR/F
FishDemersalShelf	<i>Squalus acanthias</i>	D1C1	MOR/F
FishCoastal	<i>Atherina boyeri</i>	D1C1	MOR/F
FishDemersalShelf	<i>Merlangius merlangus</i>	D1C2	ABU
FishCommercial	<i>Scophthalmus maximus</i>	D3C1	Fcurr/Fref
FishCommercial	<i>Trachurus mediterraneus</i>	D3C1	Fcurr/Fref
FishCommercial	<i>Rapana venosa</i>	D3C1	Fcurr/Fref

3.13 Mobile species – distribution, abundance and/or biomass

BLKRO-D3_Mobile SpeciesFish_09

Monitoring in transects perpendicular to coast; Monitoring the fishing practiced along of the coastline.

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.

Strategy links	D3
Monitoring purpose	Environmental state and impacts
Spatial scope and reporting units	EEZ (or similar); BLK-RO-AA-CT; BLK-RO-AA-MT01; BLK-RO-AA-TT03
Period and frequency	2000-9999; 6-monthly
Monitoring type	In-situ sampling coastal; In-situ sampling offshore
Method codes	Other

Additional method	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
Quality control as reported	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;
GES criteria linked to this programme	D3C2
Related indicators	3.2 — Spawning stock biomass
Other policy or convention links	BSC; CFP-DCF-MAP; HD
Regional coordination	BSC
Regional implementation	Common monitoring strategy
Dataset access	http://www.nodc.ro

Monitored features, elements, GES criteria and parameters

Feature	Element or element 2	GES criterion	Parameter
FishCommercial	<i>Sprattus sprattus</i>	D3C2	BIOM-SSB
FishCommercial	<i>Scophthalmus maximus</i>	D3C2	BIOM-SSB
FishCommercial	<i>Trachurus mediterraneus</i>	D3C2	BIOM-SSB
FishCommercial	<i>Rapana venosa</i>	D3C2	SSBcurr/SSBref
FishCommercial	<i>Squalus acanthias</i>	D3C2	BIOM-SSB

3.14 Mobile species – population characteristics

BLKRO-D3_Mobile SpeciesFish_11

Monitoring in transects perpendicular to coast; Monitoring the fishing practiced along of the coastline.

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.

Strategy links	D3
Monitoring purpose	Environmental state and impacts
Spatial scope and reporting units	EEZ (or similar); BLK-RO-AA-CT; BLK-RO-AA-MT01; BLK-RO-AA-TT03
Period and frequency	2000-9999; 6-monthly
Monitoring type	In-situ sampling coastal; In-situ sampling offshore
Method codes	Other
Additional method	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
Quality control as reported	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;
GES criteria linked to this programme	D3C3
Related indicators	3.3 — Age of first sexual maturity stage; 1.3 — Length based indicator
Other policy or convention links	BSC; CFP-DCF-MAP; HD
Regional coordination	BSC
Regional implementation	Common monitoring strategy
Dataset access	http://www.nodc.ro

Monitored features, elements, GES criteria and parameters

Feature	Element or element 2	GES criterion	Parameter
FishCommercial	<i>Engraulis encrasicolus</i>	D3C3	AGE-D
FishCommercial	<i>Sprattus sprattus</i>	D3C3	AGE-D; LBI
FishCommercial	<i>Scophthalmus maximus</i>	D3C3	LBI
FishCommercial	<i>Trachurus mediterraneus</i>	D3C3	LBI
FishCommercial	<i>Rapana venosa</i>	D3C3	LBI
FishCommercial	<i>Squalus acanthias</i>	D3C3	LBI

3.15 Impulsive underwater noise - distribution, frequency and levels

BLKRO-D11_PressureMarEnv_15

Descriptor 11 on Romanian territorial waters is at the beginning. 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.

Strategy links	D11
Monitoring purpose	Pressures in the marine environment
Spatial scope and reporting units	Territorial waters; BLK-RO-AA-MT01
Period and frequency	2016-9999; As needed
Monitoring type	In-situ sampling offshore
Method codes	EC-002
Quality control as reported	No validation of data
GES criteria linked to this programme	D11C1
Related indicators	Not available — Not available

Dataset access	http://www.nodc.ro
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Monitored features, elements, GES criteria and parameters

Feature	Element or element 2	GES criterion	Parameter
PresEnvSoundImpulsive	Not applicable	D11C1	LEV-N

3.16 Continuous underwater noise - distribution, frequency and levels

BLKRO-D11_PressureMarEnv_16

Descriptor 11 on Romanian territorial waters is at the beginning. 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. The underwater noise was monitored with specific equipment. The preliminary 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.

Strategy links	D11
Monitoring purpose	Pressures in the marine environment
Spatial scope and reporting units	Territorial waters; BLK-RO-AA-MT01
Period and frequency	2016-9999; As needed
Monitoring type	In-situ sampling offshore
Method codes	EC-003
Quality control as reported	No validation of data
GES criteria linked to this programme	D11C2
Related indicators	Not available — Not available
Dataset access	http://www.nodc.ro

Monitored features, elements, GES criteria and parameters

Feature	Element or element 2	GES criterion	Parameter
PresEnvSoundContinuous	Continuous low frequency sound	D11C2	SPL

3.17 Mobile species – mortality/injury rates from fisheries (targeted and/or incidental)

BLKRO-D1_Mobile SpeciesMammals_04

Monitoring of number of incidents on the beaches along the coast; Monitoring by quantifying bycatch (or damage) on a fishery-by-fishery basis

Incidental caught and stranded individuals are investigated all around the year (not regularly), in different sites. Available cetacean population-abundance information also contributes to D1C2 and indicator 1.2.2, complementing the D1C1 by-catch and stranding information.

Strategy links	D1M
Monitoring purpose	Environmental state and impacts
Spatial scope and reporting units	Terrestrial part of MS; Territorial waters; BLK-RO-AA-MT01
Period and frequency	2010-9999; As needed
Monitoring type	Administrative data collection; Visual observation
Method codes	Other
Additional method	Draft Protocol for data collection on bycatch and depredation in the ACCOBAMS Region, 2008
Quality control as reported	No validation on the data
GES criteria linked to this programme	D1C1; D1C2
Related indicators	1.1.1 — Mortality rate from incidental by-catch; 1.2.2 — Population abundance
Other policy or convention links	HD

Regional coordination	BSC
Regional implementation	Common monitoring strategy
Dataset access	http://www.nodc.ro

Monitored features, elements, GES criteria and parameters

Feature	Element or element 2	GES criterion	Parameter
MamCetacSmall	<i>Delphinus delphis</i>	D1C1	MOR
MamCetacSmall	<i>Phocoena phocoena</i>	D1C1	MOR
MamCetacSmall	<i>Tursiops truncatus</i>	D1C1	MOR
MamCetacSmall	<i>Delphinus delphis</i>	D1C2	ABU
MamCetacSmall	<i>Phocoena phocoena</i>	D1C2	ABU
MamCetacSmall	<i>Tursiops truncatus</i>	D1C2	ABU

3.18 Mobile species – population characteristics

BLKRO-D1, 4_Mobile SpeciesFish_10

Monitoring in transects perpendicular to coast; monitoring the fishing practiced along of the coastline.

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.

Strategy links	D1F; D4/D1
Monitoring purpose	Environmental state and impacts
Spatial scope and reporting units	EEZ (or similar); BLK-RO-AA-CT; BLK-RO-AA-MT01
Period and frequency	2000-9999; 6-monthly
Monitoring type	Administrative data collection; In-situ sampling offshore

Method codes	Other
Additional method	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
Quality control as reported	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;
GES criteria linked to this programme	D1C3
Related indicators	1.3 — Length based indicator
Other policy or convention links	CFP-DCF-MAP; GFCM
Regional coordination	BSC
Regional implementation	Common monitoring strategy
Dataset access	http://www.nodc.ro

Monitored features, elements, GES criteria and parameters

Feature	Element or element 2	GES criterion	Parameter
FishDemersalShelf	<i>Merlangius merlangus</i>	D1C3	AGE-D
FishDemersalShelf	<i>Squalus acanthias</i>	D1C3	AGE-D
FishCoastal	<i>Atherina boyeri</i>	D1C3	Size - length

3.19 Mobile species – distribution, abundance and/or biomass

BLKRO-D1,2,4_Mobile SpeciesFish_08

Monitoring in transects perpendicular to coast; monitoring the fishing practiced along of the coastline

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

Strategy links	D1F; D4/D1
Monitoring purpose	Environmental state and impacts
Spatial scope and reporting units	EEZ (or similar); BLK-RO-AA-CT; BLK-RO-AA-MT01
Period and frequency	2000-9999; 6-monthly
Monitoring type	Administrative data collection; In-situ sampling offshore
Method codes	Other
Additional method	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
Quality control as reported	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;
GES criteria linked to this programme	D1C2
Related indicators	1.2.1.2 — Spawning stock abundance
Other policy or convention links	CFP-DCF-MAP; GFCM
Regional coordination	BSC
Regional implementation	Common monitoring strategy
Dataset access	http://www.nodc.ro

Monitored features, elements, GES criteria and parameters

Feature	Element or element 2	GES criterion	Parameter
FishDemersalShelf	<i>Merlangius merlangus</i>	D1C2	BIOM-SSB
FishDemersalShelf	<i>Squalus acanthias</i>	D1C2	BIOM-SSB

Feature	Element or element 2	GES criterion	Parameter
FishCoastal	<i>Atherina boyeri</i>	D1C2	BIOM

3.20 Pelagic habitats – community characteristics

BLKRO-D1,2,4,5_WaterColumn_04

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 (Mamaia Bay) to assess trends based on long-term data series.

Data collected are useful to MSFD monitoring for assessing the phytoplankton community characteristics; data are usable in establishing/updating the environmental targets.

Strategy links	D1P; D4/D1
Monitoring purpose	Environmental state and impacts
Spatial scope and reporting units	EEZ (or similar); BLK-RO-AA-CT; BLK-RO-AA-MT01; BLK-RO-AA-MT02; BLK-RO-AA-TT03
Period and frequency	1960-9999; Yearly
Monitoring type	In-situ sampling coastal; In-situ sampling offshore
Method codes	BSC-001; BSC-002
Additional method	Utermöhl, 1958, Moncheva and Parr, 2010
Quality control as reported	Moncheva and Parr, 2010
GES criteria linked to this programme	D1C6; D4C1
Related indicators	1.6.1 — Phytoplankton biomass; 4.1.1 — Shannon Wiener
Other policy or convention links	HD; WaterFD
Regional coordination	BSC
Regional implementation	Common monitoring strategy

Dataset access	http://www.nodc.ro
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Monitored features, elements, GES criteria and parameters

Feature	Element or element 2	GES criterion	Parameter
HabPelBHT	Coastal pelagic habitat; Phytoplankton communities	D1C6	BIOM
HabPelBHT	Shelf pelagic habitat; Phytoplankton communities	D1C6	BIOM
HabPelBHT	Variable salinity pelagic habitat; Phytoplankton communities	D1C6	BIOM
EcosysCoastal	Pelagic primary producers	D4C1	INDEX
EcosysShelf	Pelagic primary producers	D4C1	INDEX
HabPelBHT	Oceanic/beyond shelf pelagic habitat; Phytoplankton communities	D1C6	BIOM

3.21 Pelagic habitats – community characteristics

BLKRO-D1,2,4_WaterColumn_05

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)

Data collected are useful to MSFD monitoring for assessing the zooplankton community characteristics; data are usable in establishing the environmental targets. Zooplankton data also support D4C1 (Shannon-Wiener diversity, indicator 4.1.1) and D4C2 (Copepoda biomass, indicator 1.6.3), as reported in the 2024 assessment.

Strategy links	D1P; D4/D1
Monitoring purpose	Environmental state and impacts
Spatial scope and reporting units	EEZ (or similar); BLK-RO-AA-CT; BLK-RO-AA-MT01; BLK-RO-AA-TT03
Period and frequency	1966-9999; Yearly
Monitoring type	In-situ sampling coastal; In-situ sampling offshore

Method codes	Other
Additional method	Korshenko A. and Alexandrov B., 2006. Manual for zooplankton sampling and analysis in the Black Sea
Quality control as reported	Delayed mode validation on the data
GES criteria linked to this programme	D1C6; D4C1; D4C2
Related indicators	1.6.2 — Mesozooplankton biomass; 1.6.3 — Copepoda biomass; 4.1.1 — Shannon Wiener
Other policy or convention links	HD
Regional coordination	BSC
Regional implementation	Common monitoring strategy
Dataset access	http://www.nodc.ro

Monitored features, elements, GES criteria and parameters

Feature	Element or element 2	GES criterion	Parameter
HabPelBHT	Coastal pelagic habitat; Zooplankton communities	D1C6	BIOM
HabPelBHT	Shelf pelagic habitat; Zooplankton communities	D1C6	BIOM
HabPelBHT	Variable salinity pelagic habitat; Zooplankton communities	D1C6	BIOM
EcosysCoastal	Pelagic secondary producers	D4C1	INDEX
EcosysShelf	Pelagic secondary producers	D4C1	INDEX
EcosysCoastal	Pelagic secondary producers	D4C2	BIOM
EcosysShelf	Pelagic secondary producers	D4C2	BIOM

3.22 Seabed habitats - physical and chemical characteristics

BLKRO-D1,6,7_SeabedHabitats_02

Monitoring in transects covering the Romanian shelf waters; monitoring in relation to the relevant habitat distribution

Physical seabed monitoring and associated pressure information contribute to D6C1 (extent of physical loss), D6C2 (extent of physical disturbance), D6C3 (swept area ratio for the specified habitats) and the existing D7C2 habitat assessment.

Strategy links	D7; D6/D1
Monitoring purpose	Environmental state and impacts
Spatial scope and reporting units	Territorial waters; BLK-RO-AA-CT; BLK-RO-AA-MT01; BLK-RO-AA-TT03
Period and frequency	2006-9999; Yearly
Monitoring type	In-situ sampling coastal; In-situ sampling offshore; numerical modelling
Method codes	Other
Additional method	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.
Quality control as reported	Unknown
GES criteria linked to this programme	D6C1; D6C2; D6C3; D7C2
Related indicators	7.2 — Spatial extent of permanent alteration for each habitat; 6.1 — Spatial extent of physical loss; 6.2 — Spatial extent of physical disturbance
Regional coordination	BSC
Regional implementation	Common monitoring strategy
Dataset access	http://www.nodc.ro

Monitored features, elements, GES criteria and parameters

Feature	Element or element 2	GES criterion	Parameter
HabBenBHT	Circalittoral mud	D7C2	EXT
HabBenBHT	Circalittoral sand	D7C2	EXT
HabBenBHT	Infralittoral mud	D7C2	EXT
HabBenBHT	Infralittoral sand	D7C2	EXT
HabBenBHT	Offshore circalittoral mud	D7C2	EXT
PresPhyLoss	Physical loss of the seabed	D6C1	EXT
PresPhyDisturbSeabed	Physical disturbance of the seabed	D6C2	EXT
HabBenBHT	Infralittoral sand	D6C3	Ratio SAR
HabBenBHT	Circalittoral mud	D6C3	Ratio SAR

3.23 Non-indigenous species - abundance and/or biomass

BLKRO-D2_PressureMarEnv_01

Monitoring in transects perpendicular to coast, evenly distributed and around hotspots

Data collected from the existing national monitoring programme are useful in the MSFD monitoring to assess the NIS pressure in the marine environment

Strategy links	D2
Monitoring purpose	Pressures in the marine environment
Spatial scope and reporting units	EEZ (or similar); BLK-RO-AA-CT; BLK-RO-AA-MT01; BLK-RO-AA-MT02; BLK-RO-AA-TT03
Period and frequency	1966-9999; Yearly
Monitoring type	In-situ sampling coastal; In-situ sampling offshore
Method codes	Other
Additional method	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

Quality control as reported	Delayed mode validation on the data
GES criteria linked to this programme	D2C1; D2C2
Related indicators	2.1 — Number of newly introduced species; 2.2 — <i>Mnemiopsis leidyi</i> biomass; 2.3 — Biopollution index
Other policy or convention links	HD
Regional coordination	BSC
Regional implementation	Common monitoring strategy
Dataset access	http://www.nodc.ro

Monitored features, elements, GES criteria and parameters

Feature	Element or element 2	GES criterion	Parameter
PresEnvNISestablished	<i>Mnemiopsis leidyi</i>	D2C2	BIOM
PresEnvNISnew	Not applicable	D2C1	Presence

3.24 Seabed habitats - distribution and extent

BLKRO-D1,4,6_SeabedHabitats_01

Monitoring in transects covering the Romanian shelf waters; monitoring in relation to the relevant habitat distribution

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. Habitat extent reporting includes circalittoral mixed sediment, as represented in the 2024 D6C4 assessment.

Strategy links	D6/D1; D4/D1
Monitoring purpose	Environmental state and impacts
Spatial scope and reporting units	EEZ (or similar); BLK-RO-AA-CT; BLK-RO-AA-MT01; BLK-RO-AA-TT03

Period and frequency	2006-9999; Yearly
Monitoring type	In-situ sampling coastal; In-situ sampling offshore
Method codes	BSC-003; Other
Additional method	Todorova V. and Konsulova T., 2005; Gray, J.,S., McIntyre, A.,D., and Štirn, J., 1992
Quality control as reported	Unknown
GES criteria linked to this programme	D6C4
Related indicators	6.4 — Extent of loss of the each habitat type
Other policy or convention links	HD
Regional coordination	BSC
Regional implementation	Common monitoring strategy
Dataset access	http://www.nodc.ro

Monitored features, elements, GES criteria and parameters

Feature	Element or element 2	GES criterion	Parameter
HabBenBHT	Circalittoral mud	D6C4	EXT
HabBenBHT	Circalittoral sand	D6C4	EXT
HabBenBHT	Infralittoral mud	D6C4	EXT
HabBenBHT	Infralittoral sand	D6C4	EXT
HabBenBHT	Offshore circalittoral mud	D6C4	EXT
HabBenBHT	Circalittoral mixed sediment	D6C4	EXT

Source documents

RO_ART11_Strategies_2026_REPORTNET_FINAL.xlsx, Metadata and MonitoringStrategy worksheets.

RO_ART11_Programmes_2026_REPORTNET_FINAL.xlsx, MonitoringProgramme, Feature_Element_Criteria, RelatedIndicator and Datasets worksheets.

Guidance Document 21, Reporting on the 2026 update of Article 11 for the Marine Strategy Framework Directive, used for the 2026 reporting context.