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D1, 4, 6 Biodiversity –seabed habitats

Existing Programmes

If you have already reported this programme under one of your other (sub)regions, you can refer to this programme by adding the Programme ID code for the first (sub)region here. And then add the relevant MarineUnits where the programme applies within this Region/Sub region.

Provide a unique identifier for a programme already reported under another Region/Sub region

List all the MarineUnitIDs where the monitoring programme applies within the Region/Sub region

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Existing Sub Programmes

If you have referenced a monitoring programme then please indicate if the same sub programme(s) are implemented within this region/sub region with 'Y'. If additional sub programme(s) are relevant for this region/sub region then report the SubProgrammeID under reference Sub Programme. If the list of sub programmes are not identical with the referenced monitoring programme then report all the relevant sub programmes for the monitoring programme within this region/sub region.

Reference Sub Programme

Each sub-programme ID for each (sub)region/Member State must be unique.

Provide a unique identifier for a sub programme.	Sub programme name
ANSDE_Sub_007	Benthic species - abundance and/or biomass
ANSDE_Sub_124	Other
ANSDE_Sub_128	Other
ANSDE_Sub_044	Seabed habitats - community characteristics
ANSDE_Sub_045	Seabed habitats - distribution and extent
ANSDE_Sub_046	Seabed habitats - physical/chemical characteristics
ANSDE_Sub_126	Other
ANSDE_Sub_122	Other

4e: Programme ID

Provide a unique identifier for programme. Use sub(region) and MS code (e.g. BALDE) plus MS-defined alpha-numeric code (e.g. MADIT-D08)

ANSDE_Mon_005

List all the MarineUnitIDs within this (sub)region where the monitoring programme applies

DE_ANS,

4f: Programme description

Describe the overall approaches of the monitoring programme, including: · The rationale for your balance between monitoring of state/impact, pressures, activities and measures? · How it adapts to new and emerging environmental problems (pressures and impacts) in relation to the relevant Descriptor(s). Free text or URL web link or section in paper report

Das Monitoringprogramm zielt auf die Überwachung der Fläche, Verbreitung und den Zustand der benthischen Habitate ab und damit indirekt auch auf die Abbildung der Belastung. Über den parallel begonnenen Prozess der Quantifizierung und Verortung der bestehenden Belastungen und menschlichen Aktivitäten werden zukünftig bessere Kausalbezüge zum Benthos herstellbar und quantifizierbar sein. Dieses Programm bezieht die Deskriptoren D1,4,6 ein und wird in enger Abstimmung mit den hydrografischen Messprogrammen (D6) durchgeführt. Die noch laufenden Habitatkartierungen sind dafür wesentliche Voraussetzung.

5a: Relevant GES criteria

Which GES criteria are addressed by the programme?

Select all relevant from list: GES criteria

- 1.1: Species distribution
- 1.2: Population size
- 1.3: Population condition
- 1.6: Habitat condition
- 6.2: Condition of benthic community

Description of Other (if selected):

5b: Relevant GES characteristics [indicators]

Which GES characteristics (indicators) are addressed by the programme?

Select all relevant from list: GES Indicators

- 1.1.1: Distributional range
- 1.1.3: Area covered by the species (for sessile/benthic species)
- 1.2.1: Population abundance and/or biomass
- 1.3.1: Population demographic characteristics (e.g. Body size or age class structure)
- 1.5.1: Habitat area

Description of Other (if selected):

5c: Relevant features, pressures and impacts from MSFD Annex III

Habitats

Relevant features, pressures and impacts from MSFD Annex III

Select all relevant habitat elements (from MS Art. 8 report - features present)

- Seabed habitats: Littoral rock and biogenic reef
- Seabed habitats: Littoral sediment
- Seabed habitats: Shallow sublittoral rock and biogenic reef
- Seabed habitats: Shallow sublittoral coarse sediment
- Seabed habitats: Shallow sublittoral sand
- Seabed habitats: Shallow sublittoral mud
- Seabed habitats: Shallow sublittoral mixed sediment
- Seabed habitats: Shelf sublittoral rock and biogenic reef
- Seabed habitats: Shelf sublittoral coarse sediment
- Seabed habitats: Shelf sublittoral sand
- Seabed habitats: Shelf sublittoral mud
- Seabed habitats: Shelf sublittoral mixed sediment
- Seabed habitats: Upper bathyal rock and biogenic reef
- Habitats Directive Annex I marine habitats
- Special habitat type (Artenreiche Kies- Grobsand- und Schillgebiete (BNatschG))
- Special habitat type (Makrophytenbestände)
- Special habitat type (Miesmuschelbänke)
- Special habitat type (Sabellaria-Riffe)
- Special habitat type (Seefedern und grabende Megafauna)

Description of Other (if selected):

Habitat Specials

Relevant features, pressures and impacts from MSFD Annex III

Select all relevant species elements (from MS Art. 8 report - features present)

Description of Other (if selected):

Benthische Organismen (Zoobenthos, Makroalgen, Angiospermen)

Physical/Chemical Features

Relevant features, pressures and impacts from MSFD Annex III

Select all relevant physical/chemical elements (from MS Art. 8 report - features present)

Description of Other (if selected):

Pressures

Relevant features, pressures and impacts from MSFD Annex III

Select all relevant pressure elements (from MS Art. 8 report - features present)

- Pressure: Physical damage (changes in siltation)**
- Pressure: Physical damage**
- Pressure: Physical disturbance (Other)**
- Pressure: Nutrient and organic matter enrichment (Other)**
- Pressure: Extraction of species: fish and shellfish**

Description of Other (if selected):

5d: Adequacy: for assessment of GES (Art. 8 & 9) - Adequate data: Yes or No?

Will the programme provide adequate data and information to enable the periodic assessment of environmental status, and distance from and progress towards GES, including whether environmental status is improving, stable or deteriorating? Yes or no? **No**

Established methods for assessment: Yes or no?

Adequate understanding of GES: Yes or no? **Yes**

Adequate capacity to perform assessments: Yes or no? **Yes**

5e: Natural variability

How does the programme address natural variability?

- | | |
|---|--|
| <input type="checkbox"/> In a quantitative process | <input type="checkbox"/> Expert opinion |
| <input checked="" type="checkbox"/> In a qualitative process | <input type="checkbox"/> Other |

Description of Other (if selected):

5f: Description GES - Add to end of current guidance: Free text or URL web link or section in paper report.

Describe how the programme: a. addresses assessment needs for the relevant Descriptor(s) and targets b. meets the needs of providing data/ information to support assessment of the Descriptor (or particular biodiversity component programme for D1, 4, 6) c. contributes to determining distance from GES and trends in status d. addresses natural and climatic variability and distinguish this from the effects of anthropogenic pressures e. responds to risks of not achieving GES

Die Benthosgemeinschaften werden habitatspezifisch mit bestimmten Indices bewertet. Wesentliche Parameter dieser Indices sind z.B. die Artenzusammensetzung, die Abundanz und bestimmte Charakteristika der benthischen Arten (Sensitivität, Indikation), die unter dem Gesichtspunkt Qualität/ Zustand oder Belastung verrechnet werden. Aus jetziger Sicht sind sie voraussichtlich geeignet den GES für die Deskriptoren D1, D4 und D6 zu beschreiben sofern eine klare Habitatzuordnung vorliegt. Über lange Zeitreihen wird dabei eine Trendanalyse und eine Abtrennung der natürlichen Variabilität von den menschlichen Belastungen ermöglicht.

5g: Gap-filling date GES

If not yet considered adequate for data and information needs, when will the programme be considered fully adequate? Select one from enumeration list

By 2014 By 2018 By 2020 After 2020

5h: Plans GES

If the programme is not yet considered fully adequate, what plans are in place to make it adequate (e.g. to fill gaps in data, methods, understanding or capacity)? Free text or URL web link or section in paper report

Es wird an der Erweiterung des Monitorings (weitere Stationen) zur räumlichen Abdeckung auch der 12 sm Zone und der Nutzung von Daten Dritter gearbeitet. Wesentlich ist die Kartierung sublitoraler Habitate in den nächsten Jahren und die Weiterentwicklung spezifischer Parameter für eine adäquate operationelle Nutzung der Indikatoren. Hierbei ist ein wesentlicher Schritt, dass bestehende Parametern getestet und für eine GES Bewertung angepasst werden.

6a: Relevant targets (from Art. 10)

Which targets are addressed by your programme (Art. 10)?

UZN3

Select relevant associated indicator targets (from the MS report on Art. 10)

UZN3_IND_3.1.3

UZN3_IND_3.1.4

Add relevant targets (from the MS report on Art. 10)

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6b: Adequacy: for assessment of progress with targets (Art. 10)

Will the programme provide suitable and sufficient data and information to enable assessment of progress towards achievement of the relevant environmental targets (using indicators identified by MS under Art. 10) Suitable and sufficient data: Yes or no? **No**

Established methods for assessment: Yes or no? **No**

Adequate capacity to perform assessments: Yes or no? **Yes**

6c: Target updating

Suitable and sufficient data: Yes or no?

6d: Description Targets

Explain how the programme will contribute to the assessment of progress with targets. Free text or URL web link or section in paper report

Um das Umweltziel „ 3.1..ausreichender Schutz und Rückzugsräume für Ökosystemkomponenten (... benthische Arten)“ zu erreichen muss mit der Überwachung die Habitatfläche, ihre Verteilung und der Zustand der benthischen Gemeinschaft abgebildet werden. Erst durch Einrichtung von Zonen ohne die menschliche Belastung können defizitäre Habitate entsprechend entwickelt werden und damit eine flächenmäßige und qualitative Verbesserung über das Monitoring abgebildet werden. Parallel werden damit auch Verbesserungen von D4 Nahrungsnetze und D6 Integrität des Meeresbodens abgebildet.

6e: Gap-filling date targets

If not yet considered adequate for data and information needs, when will the programme be considered fully adequate? Select one from enumeration list

By 2014 By 2018 By 2020 After 2020

6f: Plans Targets - (e.g. to fill gaps in data, methods or capacity)?

If the programme is not yet considered fully adequate, what plans are in place to make it adequate (e.g. to fill gaps in data, methods, understanding or capacity)? Free text or URL web link or section in paper report

Das Monitoringprogramm kann eine vollständige Einschätzung zur Erreichung der Umweltziele erst dann liefern, wenn die nationalen, operativen Umweltziele entsprechend konkretisiert und quantifiziert und passende Indikatoren entwickelt wurden und anwendbar sind. Im Zusammenhang mit der Erstellung der Maßnahmenprogramme nach Art. 13 MSRL wird eine solche Konkretisierung und Quantifizierung der Umweltziele nach Art. 10 MSRL vorgenommen. Dieser Prozess wird noch bis 2018 andauern. Insbesondere die Habitatkartierungen sind noch nicht vollständig und auch methodisch different. Der Abgleich Hydrografie und Biologie in der Bewertung von Habitaten ein vordringlicher Schritt, der sich zurzeit in

Abstimmung befindet. Projekte zu Indikatorentests und auf die Umweltziele ausgerichtete Bewertung sind in Arbeit.

7a: Link to relevant activities

Which activities will the programme address?

- Extraction of non-living resources: Dredging**
- Man-made structures (incl. construction phase): Land/sea physical interaction: land claim**
- Man-made structures (incl. construction phase): Submarine cable and pipeline operations**
- Man-made structures (incl. construction phase): Placement and operation of offshore structures (other than for energy production)**
- Military: Defence - recurrent defence operations**

Description of Other (if selected):

7b: Description Activities

Describe the nature of activity and/or pressure monitoring (e.g. addressing spatial distribution, intensity and/or frequency) and how the programme is considered adequate to assess which activities and/or pressures are causing environmental change (degradation) and hence identification of possible measures, if needed. Free text or URL web link or section in paper report

Bereits in der WRRL wurde ein Pressure-Bezug für benthische Indices nachgewiesen. Problematisch sind die Kausalbezüge in Systemen in denen mehrere Stressoren gleichzeitig wirken. Im Vergleich von Referenzgebieten (Stressorenausschluss) zu Belastungsgebieten wird der anstehende Test der Indikatoren /Parameter in Projekten zukünftig auch die Ableitung geeigneter Maßnahmen verbessern.

7c: Relevant measures

Which existing measures will the programme address?

7d: Description Measures

Describe the nature of monitoring of measures and how the programme enables their effectiveness (impact) in relation to delivering desired changes in environmental status to be assessed (e.g. what processes are in place to prove corrective measures are having the desired effect, and how is uncertainty quantified)? Free text or URL web link or section in paper report

Das nationale Maßnahmenprogramm Art. 13 MSRL befindet sich derzeit noch in der Aufstellung. Aussagen, wie das Monitoring eine Effizienzkontrolle der Maßnahmen gewährleistet, können erst nach Festlegung der einzelnen Maßnahmen getroffen werden. Die Fragen 7c bis 7f können somit im ersten Berichtszyklus noch nicht vollständig beantwortet werden. Dies erfolgt im zweiten Berichtszyklus 2018.

7e: Adequacy for assessment of measures (Art. 13)) - Adequate data: Yes or No?

Will the programme provide adequate data and information to enable the identification of activities and/or their pressures that are causing environmental degradation (and consequently suitable measures if needed) and the effectiveness of relevant measures?

Yes or no? **No**

Established methods for assessment: Yes or no?

Adequate understanding of GES: Yes or no? **Yes**

Adequate capacity to perform assessments: Yes or no? **Yes**

Addresses activities/pressures: Yes or no? **Yes**

Addresses effectiveness of measures: Yes or no? **No**

7f: Gap Filling Date Activities Measures

If not yet considered adequate for data and information needs, when will the programme be considered fully adequate? Select one from enumeration list

- By 2014** **By 2018** **By 2020** **After 2020**

8a: Links to existing monitoring programmes

Which monitoring programmes under Community legislation or international agreements contribute to and are compatible with your MSFD programme? Note: specific details are captured at sub-programme level – question 4m)

- | | |
|---|--|
| <input type="checkbox"/> Bathing Water Directive | <input checked="" type="checkbox"/> Water Framework Directive |
| <input type="checkbox"/> Common Fisheries Policy - Data Collection Framework | <input type="checkbox"/> Barcelona Convention UNEP/MAP |
| <input checked="" type="checkbox"/> Habitats Directive | <input type="checkbox"/> Bucharest Convention |
| <input type="checkbox"/> Birds Directive | <input type="checkbox"/> Helsinki Convention |
| <input type="checkbox"/> Nitrates Directive | <input checked="" type="checkbox"/> OSPAR Convention |
| <input type="checkbox"/> Urban Waste Water Treatment Directive | <input checked="" type="checkbox"/> Trilateral Wadden Sea Cooperation |
| | <input type="checkbox"/> Other (specify) |

Description of Other (if selected):

