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## D1, 4 Biodiversity – fish and cephalopods

### 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_120.pdf	Mobile species - population characteristics
ANSDE_Sub_112.pdf	Mobile species - abundance and/or biomass

ANSDE\_Sub\_118.pdf

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

**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\_003

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 Monitoring der Biodiversität von Fischen erfasst im Wesentlichen die Abundanz und biologische Parameter einzelner Arten. Das Monitoring erfasst somit hauptsächlich Zustände in Fischpopulationen und Fischgemeinschaften. Belastungen, welche die Biodiversität von Fischen beeinflussen, werden in den Monitoringprogrammen zu den Deskriptoren D2, D3, D5, D6, D7, D8, D10 und D11 erfasst. Die Abundanz ist ein grundlegend ökologischer Parameter, welcher auch die Auswirkungen neu entstehender Belastungen aufgreifen sollte.**

**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
- 2.1: Abundance and state characterisation of non-indigenous species, in particular invasive species
- 4.1: Productivity (production per unit biomass) of key species or trophic groups
- 4.2: Proportion of selected species at the top of food webs
- 4.3: Abundance/distribution of key trophic groups/species

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

- |  |   |
|--|---|
| <input checked="" type="checkbox"/> 1.1.1: Distributional range  | <input checked="" type="checkbox"/> 2.2.1: Ratio between invasive non-indigenous species and native species in some well studied taxonomic groups ... text abbreviated! |
| <input checked="" type="checkbox"/> 1.1.2: Distributional pattern within range   | <input checked="" type="checkbox"/> 2.2.2 Impacts of non-indigenous invasive species at the level of species  |
| <input checked="" type="checkbox"/> 1.1.3: Area covered by the species (for sessile/benthic species)                           | <input checked="" type="checkbox"/> 4.1.1: Performance of key predator species using their production per unit biomass (productivity)                                   |
| <input checked="" type="checkbox"/> 1.2.1: Population abundance and/or biomass   | <input checked="" type="checkbox"/> 4.2.1: Large fish (by weight)   |
| <input checked="" type="checkbox"/> 1.3.1: Population demographic characteristics (e.g. Body size or age class structure)      | <input checked="" type="checkbox"/> 4.3.1: Abundance trends of functionally important selected groups/species   |
| <input checked="" type="checkbox"/> 1.7.1: Composition and relative proportions of ecosystem components (habitats and species) |   |
| <input checked="" type="checkbox"/> 2.1.1: Trends in abundance   |   |

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)

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)

- Species group: Fish**
- Functional group: Diadromous fish**
- Functional group: Coastal fish**
- Functional group: Pelagic fish**
- Functional group: Pelagic elasmobranchs**
- Functional group: Demersal fish**
- Functional group: Demersal elasmobranchs**
- Functional group: Coastal/shelf pelagic cephalopods**
- Anguilla\_anguilla\_Linnaeus\_1758**
- Clupea\_harengus\_Linnaeus\_1758**
- Gadus\_morhua\_Linnaeus\_1758**
- Limanda\_limanda\_Linnaeus\_1758**
- Merlangius\_merlangus\_Linnaeus\_1758**
- Platichthys\_flesus\_Linnaeus\_1758**
- Pleuronectes\_platessa\_Linnaeus\_1758**
- Scophthalmus\_rhombus\_Linnaeus\_1758**
- Solea\_solea\_Linnaeus\_1758**
- Sprattus\_sprattus\_Linnaeus\_1758**
- Other**

Description of Other (if selected):

**All caught fish species**

**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)

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? **No**

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

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

**5e: Natural variability**

How does the programme address natural variability?

- In a quantitative process**
- In a qualitative process**
- Expert opinion**
- 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 Indikatoren entsprechend EU-KOM/477/2010 basieren überwiegend auf Abundanzmessungen der Fischgemeinschaften. Derzeit sind Methoden zur Berechnung und Bewertung der Indikatoren noch in nationaler und internationaler Abstimmung, die notwendigen Daten stehen durch die seit meist Jahrzehnten bestehenden Messprogramme als Zeitreihen zur Verfügung. Es gibt in der wissenschaftlichen Literatur vielfache Vorschläge zu der Bewertung von Indikatoren, die als Zeitserien vorliegen, hier muss jedoch auf nationaler und internationaler Ebene (EU, OSPAR) eine Einigung über das Vorgehen zur Bewertung erzielt werden.**

**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

**Die Berechnung und Bewertung der Indikatoren muss national und im Hinblick auf die Entwicklungen in den Meeresübereinkommen (OSPAR) abgestimmt und durchgeführt werden. Exemplarische Vorschläge liegen in Form von wissenschaftlichen Studien vor.**

**6a: Relevant targets (from Art. 10)**

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

UZN3  
 UZN4

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

UZN3\_IND\_3.2.3  
 UZN3\_IND\_3.3.1  
 UZN3\_IND\_3.5.1  
 UZN4\_IND\_4.2.1  
 UZN4\_IND\_4.2.2  
 UZN4\_IND\_4.3.4

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

**Die Erfassung der Fischabundanz ist die Grundlage für die Überprüfung der Umweltziele. Diese müssen jedoch für die Indikatoren noch spezifiziert werden. Diese Spezifikation wird im Rahmen der nationalen und internationalen Abstimmung bis 2018 statt finden.**

**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. Einige der deutschen Umweltziele setzten eine genaue Vorstellung von Zielzuständen voraus, die bisher noch nicht genauer spezifiziert sind. Dies betrifft beispielsweise die Längenstruktur in Fischbeständen oder die Abundanz von ausgewählten Fischarten. Eine nationale Abstimmung dieser Lücken wird durch die Fortschritte in den internationalen Meeresübereinkommen (OSPAR) erleichtert und bis 2018 erfolgen.**

#### 7a: Link to relevant activities

Which activities will the programme address?

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

**Das Monitoring von Belastungen und Aktivitäten, welche negative Einflüsse auf die Fischgemeinschaften ausüben, findet in den Monitoringprogrammen zu D2, D3, D5, D6, D7, D8, D10 und D11 statt.**

#### 7c: Relevant measures

Which existing measures will the programme address?

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#### 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. Das derzeitige Monitoring von Fischen basiert auf den fischereiwissenschaftlichen Surveys, welche die Erfassung von kommerziell genutzten Arten als Schwerpunkt haben. Diese Surveys sind auf die großräumige Erfassung der Abundanz und Verteilung von Fischpopulationen und -Beständen ausgelegt. Demnach kann das Monitoringprogramm großräumige Auswirkungen von Fischerei und Umweltveränderungen (Salinität, Temperatur, Sauerstoff) darstellen. Im Rahmen der MSRL sind jedoch auch kleinräumigere fischereiliche Maßnahmen (Schutzgebiete) vorgesehen. Um zu beurteilen, wie sich diese Maßnahmen auf die lokalen Fischpopulationen auswirken werden, existieren bisher keine ausreichenden Monitoringprogramme. Um den Erfolg von Schutzgebieten zu überprüfen, müssen neue Programme aufgelegt werden.**

#### 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? **No**

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

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

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 type="checkbox"/> Water Framework Directive                    |
| <input checked="" 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 checked="" 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):