

Reporting requirement on monitoring programmes under MSFD Article 11

Reporter

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Member State

Identify the MS to which this report refers **DE**

Region

Select one from list **ANS**

Index

[General Description](#)

- [1a: Overall Adequacy](#)
- [1b: Gaps: GES descriptors and criteria \(art. 9\)](#)
- [1c: Gaps: targets \(art. 10\)](#)
- [1d Habitats](#)
- [1d Species & Functional groups](#)
- [1d Physical/chemical](#)
- [1d Pressures](#)
- [1d Activities - 1e](#)
- [1e: Gaps and plans](#)
- [2a: Public consultation dates](#)
- [3a: Regional cooperation](#)
- [3b: Transboundary impacts and features](#)
- [3c: Major environmental changes and emerging issues](#)
- [3d: Source of contaminants in seafood](#)
- [3e: Access and use rights](#)
- [4a: Responsible Competent Authority](#)
- [4b: Responsible Organisation](#)
- [4c: Relationship To CA](#)

[D2 Non-indigenous species](#)

- [Existing Programmes](#)
- [Reference Sub Programme](#)
- [4e: Programme ID](#)
- [5a: Relevant GES criteria](#)
- [5b: Relevant GES characteristics \[indicators\]](#)
- [5c: Relevant features, pressures and impacts from MSFD Annex III](#)
- [5d: Adequacy: for assessment of GES \(Art. 8 & 9\) - Adequate data: Yes or No?](#)
- [5e: Natural variability](#)
- [5f: Description GES - Add to end of current guidance: Free text or URL web link or section in paper report.](#)
- [5g: Gap-filling date GES](#)
- [6a: Relevant targets \(from Art. 10\)](#)
- [6b: Adequacy: for assessment of progress with targets \(Art. 10\)](#)
- [6c: Target updating](#)
- [6d: Description Targets](#)
- [6e: Gap-filling date targets](#)
- [6f: Plans Targets - \(e.g. to fill gaps in data, methods or capacity\)?](#)
- [7a: Link to relevant activities](#)
- [7b: Description Activities](#)
- [7c: Relevant measures](#)
- [7d: Description Measures](#)
- [7e: Adequacy for assessment of measures \(Art. 13\)\) - Adequate data: Yes or No?](#)
- [7f: Gap Filling Date Activities Measures](#)
- [8a: Links to existing monitoring programmes](#)

[D3 Biodiversity - commercial fish and shellfish](#)

- [Existing Programmes](#)
- [Reference Sub Programme](#)
- [4e: Programme ID](#)
- [5a: Relevant GES criteria](#)
- [5b: Relevant GES characteristics \[indicators\]](#)
- [5c: Relevant features, pressures and impacts from MSFD Annex III](#)
- [5d: Adequacy: for assessment of GES \(Art. 8 & 9\) - Adequate data: Yes or No?](#)
- [5e: Natural variability](#)
- [5f: Description GES - Add to end of current guidance: Free text or URL web link or section in paper report.](#)
- [5g: Gap-filling date GES](#)
- [6a: Relevant targets \(from Art. 10\)](#)
- [6b: Adequacy: for assessment of progress with targets \(Art. 10\)](#)

[6c: Target updating](#)
[6d: Description Targets](#)
[6e: Gap-filling date targets](#)
[6f: Plans Targets - \(e.g. to fill gaps in data, methods or capacity\)?](#)
[7a: Link to relevant activities](#)
[7b: Description Activities](#)
[7c: Relevant measures](#)
[7d: Description Measures](#)
[7e: Adequacy for assessment of measures \(Art. 13\)\) - Adequate data: Yes or No?](#)
[7f: Gap Filling Date Activities Measures](#)
[8a: Links to existing monitoring programmes](#)

D5 Eutrophication

[Existing Programmes](#)
[Reference Sub Programme](#)
[4e: Programme ID](#)
[5a: Relevant GES criteria](#)
[5b: Relevant GES characteristics \[indicators\]](#)
[5c: Relevant features, pressures and impacts from MSFD Annex III](#)
[5d: Adequacy: for assessment of GES \(Art. 8 & 9\) - Adequate data: Yes or No?](#)
[5e: Natural variability](#)
[5f: Description GES - Add to end of current guidance: Free text or URL web link or section in paper report.](#)
[5g: Gap-filling date GES](#)
[6a: Relevant targets \(from Art. 10\)](#)
[6b: Adequacy: for assessment of progress with targets \(Art. 10\)](#)
[6c: Target updating](#)
[6d: Description Targets](#)
[6e: Gap-filling date targets](#)
[6f: Plans Targets - \(e.g. to fill gaps in data, methods or capacity\)?](#)
[7a: Link to relevant activities](#)
[7b: Description Activities](#)
[7c: Relevant measures](#)
[7d: Description Measures](#)
[7e: Adequacy for assessment of measures \(Art. 13\)\) - Adequate data: Yes or No?](#)
[7f: Gap Filling Date Activities Measures](#)
[8a: Links to existing monitoring programmes](#)

D7 Hydrographical changes

[Existing Programmes](#)
[Reference Sub Programme](#)
[4e: Programme ID](#)
[5a: Relevant GES criteria](#)
[5b: Relevant GES characteristics \[indicators\]](#)
[5c: Relevant features, pressures and impacts from MSFD Annex III](#)
[5d: Adequacy: for assessment of GES \(Art. 8 & 9\) - Adequate data: Yes or No?](#)
[5e: Natural variability](#)
[5f: Description GES - Add to end of current guidance: Free text or URL web link or section in paper report.](#)
[5g: Gap-filling date GES](#)
[6a: Relevant targets \(from Art. 10\)](#)
[6b: Adequacy: for assessment of progress with targets \(Art. 10\)](#)
[6c: Target updating](#)
[6d: Description Targets](#)
[6e: Gap-filling date targets](#)
[6f: Plans Targets - \(e.g. to fill gaps in data, methods or capacity\)?](#)
[7a: Link to relevant activities](#)
[7b: Description Activities](#)
[7c: Relevant measures](#)
[7d: Description Measures](#)
[7e: Adequacy for assessment of measures \(Art. 13\)\) - Adequate data: Yes or No?](#)
[7f: Gap Filling Date Activities Measures](#)
[8a: Links to existing monitoring programmes](#)

D8 Contaminants

[Existing Programmes](#)
[Reference Sub Programme](#)
[4e: Programme ID](#)
[5a: Relevant GES criteria](#)
[5b: Relevant GES characteristics \[indicators\]](#)
[5c: Relevant features, pressures and impacts from MSFD Annex III](#)
[5d: Adequacy: for assessment of GES \(Art. 8 & 9\) - Adequate data: Yes or No?](#)
[5e: Natural variability](#)
[5f: Description GES - Add to end of current guidance: Free text or URL web link or section in paper report.](#)
[5g: Gap-filling date GES](#)
[6a: Relevant targets \(from Art. 10\)](#)
[6b: Adequacy: for assessment of progress with targets \(Art. 10\)](#)
[6c: Target updating](#)
[6d: Description Targets](#)
[6e: Gap-filling date targets](#)
[6f: Plans Targets - \(e.g. to fill gaps in data, methods or capacity\)?](#)
[7a: Link to relevant activities](#)
[7b: Description Activities](#)
[7c: Relevant measures](#)
[7d: Description Measures](#)

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

[7f: Gap Filling Date Activities Measures](#)

[8a: Links to existing monitoring programmes](#)

[D9 Contaminants in seafood](#)

[Existing Programmes](#)

[Reference Sub Programme](#)

[4e: Programme ID](#)

[5a: Relevant GES criteria](#)

[5b: Relevant GES characteristics \[indicators\]](#)

[5c: Relevant features, pressures and impacts from MSFD Annex III](#)

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

[5e: Natural variability](#)

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

[5g: Gap-filling date GES](#)

[6a: Relevant targets \(from Art. 10\)](#)

[6b: Adequacy: for assessment of progress with targets \(Art. 10\)](#)

[6c: Target updating](#)

[6d: Description Targets](#)

[6e: Gap-filling date targets](#)

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

[7a: Link to relevant activities](#)

[7b: Description Activities](#)

[7c: Relevant measures](#)

[7d: Description Measures](#)

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

[7f: Gap Filling Date Activities Measures](#)

[8a: Links to existing monitoring programmes](#)

[D10 Litter](#)

[Existing Programmes](#)

[Reference Sub Programme](#)

[4e: Programme ID](#)

[5a: Relevant GES criteria](#)

[5b: Relevant GES characteristics \[indicators\]](#)

[5c: Relevant features, pressures and impacts from MSFD Annex III](#)

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

[5e: Natural variability](#)

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

[5g: Gap-filling date GES](#)

[6a: Relevant targets \(from Art. 10\)](#)

[6b: Adequacy: for assessment of progress with targets \(Art. 10\)](#)

[6c: Target updating](#)

[6d: Description Targets](#)

[6e: Gap-filling date targets](#)

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

[7a: Link to relevant activities](#)

[7b: Description Activities](#)

[7c: Relevant measures](#)

[7d: Description Measures](#)

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

[7f: Gap Filling Date Activities Measures](#)

[8a: Links to existing monitoring programmes](#)

[D11 Energy, including underwater noise](#)

[Existing Programmes](#)

[Reference Sub Programme](#)

[4e: Programme ID](#)

[5a: Relevant GES criteria](#)

[5b: Relevant GES characteristics \[indicators\]](#)

[5c: Relevant features, pressures and impacts from MSFD Annex III](#)

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

[5e: Natural variability](#)

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

[5g: Gap-filling date GES](#)

[6a: Relevant targets \(from Art. 10\)](#)

[6b: Adequacy: for assessment of progress with targets \(Art. 10\)](#)

[6c: Target updating](#)

[6d: Description Targets](#)

[6e: Gap-filling date targets](#)

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

[7a: Link to relevant activities](#)

[7b: Description Activities](#)

[7c: Relevant measures](#)

[7d: Description Measures](#)

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

[7f: Gap Filling Date Activities Measures](#)

[8a: Links to existing monitoring programmes](#)

[D1, 4 Biodiversity – birds](#)

[Existing Programmes](#)

[Reference Sub Programme](#)

[4e: Programme ID](#)

[5a: Relevant GES criteria](#)

[5b: Relevant GES characteristics \[Indicators\]](#)
[5c: Relevant features, pressures and impacts from MSFD Annex III](#)
[5d: Adequacy: for assessment of GES \(Art. 8 & 9\) - Adequate data: Yes or No?](#)
[5e: Natural variability](#)
[5f: Description GES - Add to end of current guidance: Free text or URL web link or section in paper report.](#)
[5g: Gap-filling date GES](#)
[6a: Relevant targets \(from Art. 10\)](#)
[6b: Adequacy: for assessment of progress with targets \(Art. 10\)](#)
[6c: Target updating](#)
[6d: Description Targets](#)
[6e: Gap-filling date targets](#)
[6f: Plans Targets - \(e.g. to fill gaps in data, methods or capacity\)?](#)
[7a: Link to relevant activities](#)
[7b: Description Activities](#)
[7c: Relevant measures](#)
[7d: Description Measures](#)
[7e: Adequacy for assessment of measures \(Art. 13\)\) - Adequate data: Yes or No?](#)
[7f: Gap Filling Date Activities Measures](#)
[8a: Links to existing monitoring programmes](#)

D1, 4 Biodiversity – mammals and reptiles

[Existing Programmes](#)
[Reference Sub Programme](#)
[4e: Programme ID](#)
[5a: Relevant GES criteria](#)
[5b: Relevant GES characteristics \[Indicators\]](#)
[5c: Relevant features, pressures and impacts from MSFD Annex III](#)
[5d: Adequacy: for assessment of GES \(Art. 8 & 9\) - Adequate data: Yes or No?](#)
[5e: Natural variability](#)
[5f: Description GES - Add to end of current guidance: Free text or URL web link or section in paper report.](#)
[5g: Gap-filling date GES](#)
[6a: Relevant targets \(from Art. 10\)](#)
[6b: Adequacy: for assessment of progress with targets \(Art. 10\)](#)
[6c: Target updating](#)
[6d: Description Targets](#)
[6e: Gap-filling date targets](#)
[6f: Plans Targets - \(e.g. to fill gaps in data, methods or capacity\)?](#)
[7a: Link to relevant activities](#)
[7b: Description Activities](#)
[7c: Relevant measures](#)
[7d: Description Measures](#)
[7e: Adequacy for assessment of measures \(Art. 13\)\) - Adequate data: Yes or No?](#)
[7f: Gap Filling Date Activities Measures](#)
[8a: Links to existing monitoring programmes](#)

D1, 4 Biodiversity – fish and cephalopods

[Existing Programmes](#)
[Reference Sub Programme](#)
[4e: Programme ID](#)
[5a: Relevant GES criteria](#)
[5b: Relevant GES characteristics \[Indicators\]](#)
[5c: Relevant features, pressures and impacts from MSFD Annex III](#)
[5d: Adequacy: for assessment of GES \(Art. 8 & 9\) - Adequate data: Yes or No?](#)
[5e: Natural variability](#)
[5f: Description GES - Add to end of current guidance: Free text or URL web link or section in paper report.](#)
[5g: Gap-filling date GES](#)
[6a: Relevant targets \(from Art. 10\)](#)
[6b: Adequacy: for assessment of progress with targets \(Art. 10\)](#)
[6c: Target updating](#)
[6d: Description Targets](#)
[6e: Gap-filling date targets](#)
[6f: Plans Targets - \(e.g. to fill gaps in data, methods or capacity\)?](#)
[7a: Link to relevant activities](#)
[7b: Description Activities](#)
[7c: Relevant measures](#)
[7d: Description Measures](#)
[7e: Adequacy for assessment of measures \(Art. 13\)\) - Adequate data: Yes or No?](#)
[7f: Gap Filling Date Activities Measures](#)
[8a: Links to existing monitoring programmes](#)

D1, 4, 6 Biodiversity – seabed habitats

[Existing Programmes](#)
[Reference Sub Programme](#)
[4e: Programme ID](#)
[5a: Relevant GES criteria](#)
[5b: Relevant GES characteristics \[Indicators\]](#)
[5c: Relevant features, pressures and impacts from MSFD Annex III](#)
[5d: Adequacy: for assessment of GES \(Art. 8 & 9\) - Adequate data: Yes or No?](#)
[5e: Natural variability](#)
[5f: Description GES - Add to end of current guidance: Free text or URL web link or section in paper report.](#)
[5g: Gap-filling date GES](#)
[6a: Relevant targets \(from Art. 10\)](#)
[6b: Adequacy: for assessment of progress with targets \(Art. 10\)](#)

6c: Target updating 6d: Description Targets 6e: Gap-filling date targets 6f: Plans Targets - (e.g. to fill gaps in data, methods or capacity)? 7a: Link to relevant activities 7b: Description Activities 7c: Relevant measures 7d: Description Measures 7e: Adequacy for assessment of measures (Art. 13)) - Adequate data: Yes or No? 7f: Gap Filling Date Activities Measures 8a: Links to existing monitoring programmes
D1, 4 Biodiversity – water column habitats Existing Programmes Reference Sub Programme 4e: Programme ID 5a: Relevant GES criteria 5b: Relevant GES characteristics [indicators] 5c: Relevant features, pressures and impacts from MSFD Annex III 5d: Adequacy: for assessment of GES (Art. 8 & 9) - Adequate data: Yes or No? 5e: Natural variability 5f: Description GES - Add to end of current guidance: Free text or URL web link or section in paper report. 5g: Gap-filling date GES 6a: Relevant targets (from Art. 10) 6b: Adequacy: for assessment of progress with targets (Art. 10) 6c: Target updating 6d: Description Targets 6e: Gap-filling date targets 6f: Plans Targets - (e.g. to fill gaps in data, methods or capacity)? 7a: Link to relevant activities 7b: Description Activities 7c: Relevant measures 7d: Description Measures 7e: Adequacy for assessment of measures (Art. 13)) - Adequate data: Yes or No? 7f: Gap Filling Date Activities Measures 8a: Links to existing monitoring programmes

General Description

1a: Overall Adequacy

Do the monitoring programmes as a whole constitute an appropriate framework to meet the requirements of MSFD? If not, please complete the questions on gaps below (Note: the gaps may be easier to answer at the end of the 'report', i.e. once what is to be covered by each of the monitoring programmes is has been documented). **No**

1b: Gaps: GES descriptors and criteria (art. 9)

Which GES descriptors and criteria relevant for your marine waters (as included in your MS report for Art. 9) are not yet adequately covered by your Monitoring Programmes?

	Select all relevant descriptors and criteria	If selected: Indicate by when each will be addressed by your monitoring programmes (select one per criterion listed) • Adequately covered by 2014 • In time for the next assessment due in 2018 • In time for the updating of monitoring programmes due on 2020 • Later than 2020 • Not relevant
D1	Descriptor level: Biological diversity is maintained. The quality and occurrence of habitats and the distribution and abundance of species are in line with prevailing physiographic, geographic and climate conditions	<input type="radio"/> By 2014 <input type="radio"/> By 2018 <input type="radio"/> By 2020 <input checked="" type="radio"/> After 2020 <input type="radio"/> Not relevant
1.1	Criterion level: Species distribution	<input type="radio"/> By 2014 <input checked="" type="radio"/> By 2018 <input type="radio"/> By 2020 <input type="radio"/> After 2020 <input type="radio"/> Not relevant
1.2	Criterion level: Population size	<input type="radio"/> By 2014 <input checked="" type="radio"/> By 2018 <input type="radio"/> By 2020 <input type="radio"/> After 2020 <input type="radio"/> Not relevant
1.3	Criterion level: Population condition	<input type="radio"/> By 2014 <input checked="" type="radio"/> By 2018 <input type="radio"/> By 2020 <input type="radio"/> After 2020 <input type="radio"/> Not relevant
1.4	Criterion level: Habitat distribution	<input type="radio"/> By 2014 <input checked="" type="radio"/> By 2018 <input type="radio"/> By 2020 <input type="radio"/> After 2020 <input type="radio"/> Not relevant
1.5	Criterion level: Habitat extent	<input type="radio"/> By 2014 <input checked="" type="radio"/> By 2018 <input type="radio"/> By 2020 <input type="radio"/> After 2020 <input type="radio"/> Not relevant
1.6	Criterion level: Habitat condition	

		<input type="radio"/> By 2014 <input checked="" type="radio"/> By 2018 <input type="radio"/> By 2020 <input type="radio"/> After 2020 <input type="radio"/> Not relevant
1.7	Criterion level: Ecosystem structure	<input type="radio"/> By 2014 <input type="radio"/> By 2018 <input type="radio"/> By 2020 <input checked="" type="radio"/> After 2020 <input type="radio"/> Not relevant
D2	Descriptor level: Non-indigenous species introduced by human activities are at levels that do not adversely alter the ecosystem	<input type="radio"/> By 2014 <input checked="" type="radio"/> By 2018 <input type="radio"/> By 2020 <input type="radio"/> After 2020 <input type="radio"/> Not relevant
2.1	Criterion level: Abundance and state characterisation of non-indigenous species, in particular invasive species	<input type="radio"/> By 2014 <input checked="" type="radio"/> By 2018 <input type="radio"/> By 2020 <input type="radio"/> After 2020 <input type="radio"/> Not relevant
2.2	Criterion level: Environmental impact of invasive non-indigenous species	<input type="radio"/> By 2014 <input type="radio"/> By 2018 <input type="radio"/> By 2020 <input checked="" type="radio"/> After 2020 <input type="radio"/> Not relevant
D3	Descriptor level: Populations of all commercially exploited fish and shellfish are within safe biological limits, exhibiting a population age and size distribution that is indicative of a healthy stock	<input type="radio"/> By 2014 <input checked="" type="radio"/> By 2018 <input type="radio"/> By 2020 <input type="radio"/> After 2020 <input type="radio"/> Not relevant
3.1	Criterion level: Level of pressure of the fishing activity	<input checked="" type="radio"/> By 2014 <input type="radio"/> By 2018 <input type="radio"/> By 2020 <input type="radio"/> After 2020 <input type="radio"/> Not relevant
3.2	Criterion level: Reproductive capacity of the stock	<input checked="" type="radio"/> By 2014 <input type="radio"/> By 2018 <input type="radio"/> By 2020 <input type="radio"/> After 2020 <input type="radio"/> Not relevant
3.3	Criterion level: Population age and size distribution	<input type="radio"/> By 2014 <input checked="" type="radio"/> By 2018 <input type="radio"/> By 2020 <input type="radio"/> After 2020 <input type="radio"/> Not relevant
D4	Descriptor level: All elements of the marine food webs, to the extent that they are known, occur at normal abundance and diversity and levels capable of ensuring the long-term abundance of the species and the retention of their full reproductive capacity	<input type="radio"/> By 2014 <input type="radio"/> By 2018 <input type="radio"/> By 2020 <input checked="" type="radio"/> After 2020 <input type="radio"/> Not relevant
4.1	Criterion level: Productivity (production per unit biomass) of key species or trophic groups	<input type="radio"/> By 2014 <input type="radio"/> By 2018 <input type="radio"/> By 2020 <input checked="" type="radio"/> After 2020 <input type="radio"/> Not relevant
4.2	Criterion level: Proportion of selected species at the top of food webs	<input type="radio"/> By 2014 <input type="radio"/> By 2018 <input type="radio"/> By 2020 <input checked="" type="radio"/> After 2020 <input type="radio"/> Not relevant
4.3	Criterion level: Abundance/distribution of key trophic groups/species	<input type="radio"/> By 2014 <input type="radio"/> By 2018 <input type="radio"/> By 2020 <input checked="" type="radio"/> After 2020 <input type="radio"/> Not relevant
D5	Descriptor level: Human-induced eutrophication is minimised, especially adverse effects thereof, such as losses in biodiversity, ecosystem degradation, harmful algae blooms and oxygen deficiency in bottom waters	<input type="radio"/> By 2014 <input checked="" type="radio"/> By 2018 <input type="radio"/> By 2020 <input type="radio"/> After 2020 <input type="radio"/> Not relevant
5.1	Criterion level: Nutrients levels	<input checked="" type="radio"/> By 2014 <input type="radio"/> By 2018 <input type="radio"/> By 2020 <input type="radio"/> After 2020 <input type="radio"/> Not relevant
5.2	Criterion level: Direct effects of nutrient enrichment	<input type="radio"/> By 2014 <input checked="" type="radio"/> By 2018 <input type="radio"/> By 2020 <input type="radio"/> After 2020 <input type="radio"/> Not relevant
5.3	Criterion level: Indirect effects of nutrient enrichment	<input checked="" type="radio"/> By 2014 <input type="radio"/> By 2018 <input type="radio"/> By 2020 <input type="radio"/> After 2020 <input type="radio"/> Not relevant
D6	Descriptor level: Sea-floor integrity is at a level that ensures that the structure and functions of the ecosystems are safeguarded and benthic ecosystems, in particular, are not adversely affected.	<input type="radio"/> By 2014 <input checked="" type="radio"/> By 2018 <input type="radio"/> By 2020 <input type="radio"/> After 2020 <input type="radio"/> Not relevant
6.1	Criterion level: Physical damage, having regard to substrate characteristics	<input type="radio"/> By 2014 <input checked="" type="radio"/> By 2018 <input type="radio"/> By 2020 <input type="radio"/> After 2020 <input type="radio"/> Not relevant
6.2	Criterion level: Condition of benthic community	<input type="radio"/> By 2014 <input checked="" type="radio"/> By 2018 <input type="radio"/> By 2020 <input type="radio"/> After 2020 <input type="radio"/> Not relevant
D7	Descriptor level: Permanent alteration of hydrographical conditions does not adversely affect marine ecosystems	<input type="radio"/> By 2014 <input type="radio"/> By 2018 <input checked="" type="radio"/> By 2020 <input type="radio"/> After 2020 <input type="radio"/> Not relevant
7.1	Criterion level: Spatial characterisation of permanent alterations	<input checked="" type="radio"/> By 2014 <input type="radio"/> By 2018 <input type="radio"/> By 2020 <input type="radio"/> After 2020 <input type="radio"/> Not relevant
7.2	Criterion level: Impact of permanent hydrographical changes	<input type="radio"/> By 2014 <input type="radio"/> By 2018 <input checked="" type="radio"/> By 2020 <input type="radio"/> After 2020 <input type="radio"/> Not relevant
D8	Descriptor level: Concentrations of contaminants are at levels not giving rise to pollution effects	

		<input type="radio"/> By 2014 <input type="radio"/> By 2018 <input checked="" type="radio"/> By 2020 <input type="radio"/> After 2020 <input type="radio"/> Not relevant
8.1	Criterion level: Concentration of contaminants	<input checked="" type="radio"/> By 2014 <input type="radio"/> By 2018 <input type="radio"/> By 2020 <input type="radio"/> After 2020 <input type="radio"/> Not relevant
8.2	Criterion level: Effects of contaminants	<input type="radio"/> By 2014 <input type="radio"/> By 2018 <input checked="" type="radio"/> By 2020 <input type="radio"/> After 2020 <input type="radio"/> Not relevant
D9	Descriptor level: Contaminants in fish and other seafood for human consumption do not exceed levels established by Community legislation or other relevant standards	<input type="radio"/> By 2014 <input checked="" type="radio"/> By 2018 <input type="radio"/> By 2020 <input type="radio"/> After 2020 <input type="radio"/> Not relevant
9.1	Criterion level: Levels, number and frequency of contaminants	<input type="radio"/> By 2014 <input checked="" type="radio"/> By 2018 <input type="radio"/> By 2020 <input type="radio"/> After 2020 <input type="radio"/> Not relevant
D10	Descriptor level: Properties and quantities of marine litter do not cause harm to the coastal and marine environment	<input type="radio"/> By 2014 <input type="radio"/> By 2018 <input checked="" type="radio"/> By 2020 <input type="radio"/> After 2020 <input type="radio"/> Not relevant
10.1	Criterion level: Characteristics of litter in the marine and coastal environment	<input type="radio"/> By 2014 <input type="radio"/> By 2018 <input checked="" type="radio"/> By 2020 <input type="radio"/> After 2020 <input type="radio"/> Not relevant
10.2	Criterion level: Impacts of litter on marine life	<input type="radio"/> By 2014 <input type="radio"/> By 2018 <input checked="" type="radio"/> By 2020 <input type="radio"/> After 2020 <input type="radio"/> Not relevant
D11	Descriptor level: Introduction of energy, including underwater noise, is at levels that do not adversely affect the marine environment	<input type="radio"/> By 2014 <input checked="" type="radio"/> By 2018 <input type="radio"/> By 2020 <input type="radio"/> After 2020 <input type="radio"/> Not relevant
11.1	Criterion level: Distribution in time and place of loud, low and mid frequency impulsive sounds	<input type="radio"/> By 2014 <input checked="" type="radio"/> By 2018 <input type="radio"/> By 2020 <input type="radio"/> After 2020 <input type="radio"/> Not relevant
11.2	Criterion level: Continuous low frequency sound	<input type="radio"/> By 2014 <input checked="" type="radio"/> By 2018 <input type="radio"/> By 2020 <input type="radio"/> After 2020 <input type="radio"/> Not relevant
Other	Descriptor level: If GES is defined but not in relation to any particular descriptor, add it here	<input type="radio"/> By 2014 <input type="radio"/> By 2018 <input type="radio"/> By 2020 <input type="radio"/> After 2020 <input type="radio"/> Not relevant
NotRelevant	Not Relevant	<input type="radio"/> By 2014 <input type="radio"/> By 2018 <input type="radio"/> By 2020 <input type="radio"/> After 2020 <input type="radio"/> Not relevant

1c: Gaps: targets (art. 10)**#1**

Which targets and associated indicators for your marine waters (as included in your MS report for Art. 10) are not yet adequately covered by your Monitoring Programmes?

Select relevant environmental targets (from the MS report on Art. 10)	Targets
<input checked="" type="checkbox"/> UZN1 <input checked="" type="checkbox"/> UZN2 <input checked="" type="checkbox"/> UZN3 <input checked="" type="checkbox"/> UZN4 <input checked="" type="checkbox"/> UZN5 <input checked="" type="checkbox"/> UZN6	<input checked="" type="checkbox"/> UZN1_IND_1.1.1 <input checked="" type="checkbox"/> UZN1_IND_1.2.1 <input checked="" type="checkbox"/> UZN1_IND_1.2.2 <input checked="" type="checkbox"/> UZN1_IND_1.3.1 <input checked="" type="checkbox"/> UZN1_IND_1.3.2 <input checked="" type="checkbox"/> UZN2_IND_2.1.1 <input checked="" type="checkbox"/> UZN2_IND_2.5.1 <input checked="" type="checkbox"/> UZN2_IND_2.5.3 <input checked="" type="checkbox"/> UZN3_IND_3.1.1 <input checked="" type="checkbox"/> UZN3_IND_3.1.2 <input checked="" type="checkbox"/> UZN3_IND_3.1.3 <input checked="" type="checkbox"/> UZN3_IND_3.1.4 <input checked="" type="checkbox"/> UZN3_IND_3.2.3 <input checked="" type="checkbox"/> UZN3_IND_3.3.1 <input checked="" type="checkbox"/> UZN3_IND_3.5.1 <input checked="" type="checkbox"/> UZN3_IND_3.5.2 <input checked="" type="checkbox"/> UZN3_IND_3.5.3 <input checked="" type="checkbox"/> UZN4_IND_4.1.1 <input checked="" type="checkbox"/> UZN4_IND_4.1.2 <input checked="" type="checkbox"/> UZN4_IND_4.2.1 <input checked="" type="checkbox"/> UZN4_IND_4.2.2 <input checked="" type="checkbox"/> UZN4_IND_4.3.4 <input checked="" type="checkbox"/> UZN5_IND_5.1.1 <input checked="" type="checkbox"/> UZN5_IND_5.1.2 <input checked="" type="checkbox"/> UZN5_IND_5.2.1 <input checked="" type="checkbox"/> UZN6_IND_6.1.3 <input checked="" type="checkbox"/> UZN6_IND_6.1.4 <input checked="" type="checkbox"/> UZN6_IND_6.2.3
List all relevant targets and indicators	Indicate by when each will be addressed by your monitoring programmes (select one per target listed) • Adequately covered by 2014 • In time for the next assessment due in 2018 • In time for the updating of monitoring programmes due on 2020 • Later than 2020 • Not relevant
Zeitangaben variieren zwischen Monit.prg	

By 2014 By 2018 By 2020
 After 2020 Not Relevant

#2

Which targets and associated indicators for your marine waters (as included in your MS report for Art. 10) are not yet adequately covered by your Monitoring Programmes?

Select relevant environmental targets (from the MS report on Art. 10)	Targets
<input checked="" type="checkbox"/> UZN2 <input checked="" type="checkbox"/> UZN3 <input checked="" type="checkbox"/> UZN4 <input checked="" type="checkbox"/> UZN7	<input checked="" type="checkbox"/> UZN2_IND_2.2.1 <input checked="" type="checkbox"/> UZN2_IND_2.2.2 <input checked="" type="checkbox"/> UZN2_IND_2.3.1 <input checked="" type="checkbox"/> UZN2_IND_2.4.1 <input checked="" type="checkbox"/> UZN2_IND_2.4.2 <input checked="" type="checkbox"/> UZN2_IND_2.4.3 <input checked="" type="checkbox"/> UZN2_IND_2.5.2 <input checked="" type="checkbox"/> UZN3_IND_3.1.1 <input checked="" type="checkbox"/> UZN3_IND_3.1.2 <input checked="" type="checkbox"/> UZN3_IND_3.1.3 <input checked="" type="checkbox"/> UZN3_IND_3.1.4 <input checked="" type="checkbox"/> UZN3_IND_3.3.1 <input checked="" type="checkbox"/> UZN3_IND_3.4.1 <input checked="" type="checkbox"/> UZN3_IND_3.4.2 <input checked="" type="checkbox"/> UZN4_IND_4.3.1 <input checked="" type="checkbox"/> UZN4_IND_4.5.1 <input checked="" type="checkbox"/> UZN4_IND_4.6.1 <input checked="" type="checkbox"/> UZN4_IND_4.6.2 <input checked="" type="checkbox"/> UZN7_IND_7.1.1 <input checked="" type="checkbox"/> UZN7_IND_7.1.2 <input checked="" type="checkbox"/> UZN7_IND_7.1.3 <input checked="" type="checkbox"/> UZN7_IND_7.1.4 <input checked="" type="checkbox"/> UZN7_IND_7.1.5 <input checked="" type="checkbox"/> UZN7_IND_7.2.1 <input checked="" type="checkbox"/> UZN7_IND_7.2.2 <input checked="" type="checkbox"/> UZN7_IND_7.2.3 <input checked="" type="checkbox"/> UZN7_IND_7.3.1
List all relevant targets and indicators	Indicate by when each will be addressed by your monitoring programmes (select one per target listed) • Adequately covered by 2014 • In time for the next assessment due in 2018 • In time for the updating of monitoring programmes due on 2020 • Later than 2020 • Not relevant
Zeitangaben variieren zwischen Monit.prg	<input type="radio"/> By 2014 <input type="radio"/> By 2018 <input checked="" type="radio"/> By 2020 <input type="radio"/> After 2020 <input type="radio"/> Not Relevant

#3

Which targets and associated indicators for your marine waters (as included in your MS report for Art. 10) are not yet adequately covered by your Monitoring Programmes?

Select relevant environmental targets (from the MS report on Art. 10)	Targets
<input checked="" type="checkbox"/> UZN3 <input checked="" type="checkbox"/> UZN5 <input checked="" type="checkbox"/> UZN6	<input checked="" type="checkbox"/> UZN3_IND_3.2.1 <input checked="" type="checkbox"/> UZN3_IND_3.2.2 <input checked="" type="checkbox"/> UZN3_IND_3.2.4 <input checked="" type="checkbox"/> UZN4_IND_4.3.2 <input checked="" type="checkbox"/> UZN4_IND_4.3.3 <input checked="" type="checkbox"/> UZN5_IND_5.3.1 <input checked="" type="checkbox"/> UZN5_IND_5.3.2 <input checked="" type="checkbox"/> UZN6_IND_6.1.1 <input checked="" type="checkbox"/> UZN6_IND_6.1.2 <input checked="" type="checkbox"/> UZN6_IND_6.2.1 <input checked="" type="checkbox"/> UZN6_IND_6.2.2 <input checked="" type="checkbox"/> UZN6_IND_6.2.4 <input checked="" type="checkbox"/> UZN6_IND_6.3.1 <input checked="" type="checkbox"/> UZN6_IND_6.3.2 <input checked="" type="checkbox"/> UZN6_IND_6.4.1 <input checked="" type="checkbox"/> UZN6_IND_6.4.2 <input checked="" type="checkbox"/> UZN6_IND_6.5.1 <input checked="" type="checkbox"/> UZN6_IND_6.5.2
List all relevant targets and indicators	Indicate by when each will be addressed by your monitoring programmes (select one per target listed) • Adequately covered by 2014 • In time for the next assessment due in 2018 • In time for the updating of monitoring programmes due on 2020 • Later than 2020 • Not relevant
wie angekreuzt	<input type="radio"/> By 2014 <input type="radio"/> By 2018 <input type="radio"/> By 2020 <input checked="" type="radio"/> After 2020 <input type="radio"/> Not Relevant

1d Habitats

Which elements from MSFD Annex III relevant for your marine waters (as reported in your MS report for Art. 8) are not yet adequately covered by your Monitoring Programmes?

	Select all relevant habitat elements (from MS Art. 8 report - features present)	Indicate by when each will be addressed by your monitoring programmes (select one per element listed) • Adequately covered by 2014 • In time for the next assessment due in 2018 • In time for the updating of monitoring programmes due on 2020 • Later than 2020 • Not relevant
SeabedHabitatsAll	Seabed habitats - all	<input type="radio"/> By 2014 <input type="radio"/> By 2018 <input checked="" type="radio"/> By 2020 <input type="radio"/> After 2020 <input type="radio"/> Not relevant
LitRock	Littoral rock and biogenic reef	<input type="radio"/> By 2014 <input type="radio"/> By 2018 <input checked="" type="radio"/> By 2020 <input type="radio"/> After 2020 <input type="radio"/> Not relevant
LitSed	Littoral sediment	<input type="radio"/> By 2014 <input type="radio"/> By 2018 <input checked="" type="radio"/> By 2020 <input type="radio"/> After 2020 <input type="radio"/> Not relevant
ShallRock	Shallow sublittoral rock and biogenic reef	<input type="radio"/> By 2014 <input type="radio"/> By 2018 <input checked="" type="radio"/> By 2020 <input type="radio"/> After 2020 <input type="radio"/> Not relevant
ShallSed	Shallow sublittoral sediment	<input type="radio"/> By 2014 <input type="radio"/> By 2018 <input checked="" type="radio"/> By 2020 <input type="radio"/> After 2020 <input type="radio"/> Not relevant
ShelfRock	Shelf sublittoral rock and biogenic reef	<input type="radio"/> By 2014 <input type="radio"/> By 2018 <input checked="" type="radio"/> By 2020 <input type="radio"/> After 2020 <input type="radio"/> Not relevant
ShelfSed	Shelf sublittoral sediment	<input type="radio"/> By 2014 <input type="radio"/> By 2018 <input checked="" type="radio"/> By 2020 <input type="radio"/> After 2020 <input type="radio"/> Not relevant
BathAbys	Bathyal and abyssal rock and sediment	<input type="radio"/> By 2014 <input type="radio"/> By 2018 <input checked="" type="radio"/> By 2020 <input type="radio"/> After 2020 <input type="radio"/> Not relevant
WaterColumnHabitatsAll	Water column habitats - all	<input type="radio"/> By 2014 <input type="radio"/> By 2018 <input checked="" type="radio"/> By 2020 <input type="radio"/> After 2020 <input type="radio"/> Not relevant
IceHabitat	Ice-associated habitats	<input type="radio"/> By 2014 <input type="radio"/> By 2018 <input type="radio"/> By 2020 <input type="radio"/> After 2020 <input checked="" type="radio"/> Not relevant
HabitatsDirectiveAnnexI	Habitats Directive Annex I marine habitats	<input type="radio"/> By 2014 <input checked="" type="radio"/> By 2018 <input type="radio"/> By 2020 <input type="radio"/> After 2020 <input type="radio"/> Not relevant
HabitatsOther	Other Artenreiche Kies-, Grobsand- und Schillgebiete (BNatschG), Makrophytenbestände, Miesmuschelbänke, Sabellaria-Riffe, Seefedern und grabende Megafauna.	<input type="radio"/> By 2014 <input checked="" type="radio"/> By 2018 <input type="radio"/> By 2020 <input type="radio"/> After 2020 <input type="radio"/> Not relevant

1d Species & Functional groups

Which elements from MSFD Annex III relevant for your marine waters (as reported in your MS report for Art. 8) are not yet adequately covered by your Monitoring Programmes?

	Select all relevant species elements (from MS Art. 8 report - features present)	Indicate by when each will be addressed by your monitoring programmes (select one per element listed) • Adequately covered by 2014 • In time for the next assessment due in 2018 • In time for the updating of monitoring programmes due on 2020 • Later than 2020 • Not relevant
BirdsAll	Species group: Birds	<input type="radio"/> By 2014 <input checked="" type="radio"/> By 2018 <input type="radio"/> By 2020 <input type="radio"/> After 2020 <input type="radio"/> Not relevant
MammalsAll	Species group: Mammals	<input type="radio"/> By 2014 <input checked="" type="radio"/> By 2018 <input type="radio"/> By 2020 <input type="radio"/> After 2020 <input type="radio"/> Not relevant
ReptilesAll	Species group: Reptiles	<input type="radio"/> By 2014 <input type="radio"/> By 2018 <input type="radio"/> By 2020 <input type="radio"/> After 2020 <input checked="" type="radio"/> Not relevant
FishAll	Species group: Fish	<input type="radio"/> By 2014 <input checked="" type="radio"/> By 2018 <input type="radio"/> By 2020 <input type="radio"/> After 2020 <input type="radio"/> Not relevant
CephalopodsAll	Species group: Cephalopods	

		<input type="radio"/> By 2014 <input checked="" type="radio"/> By 2018 <input type="radio"/> By 2020 <input type="radio"/> After 2020 <input type="radio"/> Not relevant
BirdsIntertidalBenthic	Functional group: Intertidal benthic-feeding birds	<input type="radio"/> By 2014 <input checked="" type="radio"/> By 2018 <input type="radio"/> By 2020 <input type="radio"/> After 2020 <input type="radio"/> Not relevant
BirdsInshoreSurface	Functional group: Inshore surface-feeding birds	<input type="radio"/> By 2014 <input checked="" type="radio"/> By 2018 <input type="radio"/> By 2020 <input type="radio"/> After 2020 <input type="radio"/> Not relevant
BirdsInshorePelagic	Functional group: Inshore pelagic-feeding birds	<input type="radio"/> By 2014 <input checked="" type="radio"/> By 2018 <input type="radio"/> By 2020 <input type="radio"/> After 2020 <input type="radio"/> Not relevant
BirdsInshoreBenthic	Functional group: Inshorer benthic-feeding birds	<input type="radio"/> By 2014 <input checked="" type="radio"/> By 2018 <input type="radio"/> By 2020 <input type="radio"/> After 2020 <input type="radio"/> Not relevant
BirdsInshoreHerbiv	Functional group: Inshore herbivorous-feeding birds	<input type="radio"/> By 2014 <input checked="" type="radio"/> By 2018 <input type="radio"/> By 2020 <input type="radio"/> After 2020 <input type="radio"/> Not relevant
BirdsOffshoreSurface	Functional group: Offshore surface-feeding birds	<input type="radio"/> By 2014 <input checked="" type="radio"/> By 2018 <input type="radio"/> By 2020 <input type="radio"/> After 2020 <input type="radio"/> Not relevant
BirdsOffshorePelagic	Functional group: Offshore pelagic-feeding birds	<input type="radio"/> By 2014 <input checked="" type="radio"/> By 2018 <input type="radio"/> By 2020 <input type="radio"/> After 2020 <input type="radio"/> Not relevant
BirdsIce	Functional group: Ice-associated birds	<input type="radio"/> By 2014 <input type="radio"/> By 2018 <input type="radio"/> By 2020 <input type="radio"/> After 2020 <input checked="" type="radio"/> Not relevant
MammalsToothedWhales	Functional group: Toothed whales	<input type="radio"/> By 2014 <input checked="" type="radio"/> By 2018 <input type="radio"/> By 2020 <input type="radio"/> After 2020 <input type="radio"/> Not relevant
MammalsBaleenWhales	Functional group: Baleen whales	<input type="radio"/> By 2014 <input checked="" type="radio"/> By 2018 <input type="radio"/> By 2020 <input type="radio"/> After 2020 <input type="radio"/> Not relevant
MammalsSeals	Functional group: Seals	<input type="radio"/> By 2014 <input checked="" type="radio"/> By 2018 <input type="radio"/> By 2020 <input type="radio"/> After 2020 <input type="radio"/> Not relevant
MammalsIce	Functional group: Ice-associated mammals	<input type="radio"/> By 2014 <input type="radio"/> By 2018 <input type="radio"/> By 2020 <input type="radio"/> After 2020 <input checked="" type="radio"/> Not relevant
ReptilesTurtles	Functional group: Turtles	<input type="radio"/> By 2014 <input type="radio"/> By 2018 <input type="radio"/> By 2020 <input type="radio"/> After 2020 <input checked="" type="radio"/> Not relevant
FishDiadromous	Functional group: Diadromous fish	<input type="radio"/> By 2014 <input checked="" type="radio"/> By 2018 <input type="radio"/> By 2020 <input type="radio"/> After 2020 <input type="radio"/> Not relevant
FishCoastal	Functional group: Coastal fish	<input type="radio"/> By 2014 <input checked="" type="radio"/> By 2018 <input type="radio"/> By 2020 <input type="radio"/> After 2020 <input type="radio"/> Not relevant
FishPelagic	Functional group: Pelagic fish	<input checked="" type="radio"/> By 2014 <input type="radio"/> By 2018 <input type="radio"/> By 2020 <input type="radio"/> After 2020 <input type="radio"/> Not relevant
FishPelagicElasmobranchs	Functional group: Pelagic elasmobranchs	<input type="radio"/> By 2014 <input checked="" type="radio"/> By 2018 <input type="radio"/> By 2020 <input type="radio"/> After 2020 <input type="radio"/> Not relevant
FishDemersal	Functional group: Demersal fish	<input checked="" type="radio"/> By 2014 <input type="radio"/> By 2018 <input type="radio"/> By 2020 <input type="radio"/> After 2020 <input type="radio"/> Not relevant
FishDemersalElasmobranchs	Functional group: Demersal elasmobranchs	<input type="radio"/> By 2014 <input checked="" type="radio"/> By 2018 <input type="radio"/> By 2020 <input type="radio"/> After 2020 <input type="radio"/> Not relevant
FishDeep_sea	Functional group: Deep-sea fish	<input type="radio"/> By 2014 <input type="radio"/> By 2018 <input type="radio"/> By 2020 <input type="radio"/> After 2020 <input checked="" type="radio"/> Not relevant
FishDeep_seaElasmobranchs	Functional group: Deep-sea elasmobranchs	<input type="radio"/> By 2014 <input type="radio"/> By 2018 <input type="radio"/> By 2020 <input type="radio"/> After 2020 <input checked="" type="radio"/> Not relevant
FishIce	Functional group: Ice-associated fish	<input type="radio"/> By 2014 <input type="radio"/> By 2018 <input type="radio"/> By 2020 <input type="radio"/> After 2020 <input checked="" type="radio"/> Not relevant
CephalopodsCoastShelf	Functional group: Coastal/shelf pelagic cephalopods	<input type="radio"/> By 2014 <input checked="" type="radio"/> By 2018 <input type="radio"/> By 2020 <input type="radio"/> After 2020 <input type="radio"/> Not relevant
CephalopodsDeep_sea	Functional group: Deep-sea pelagic cephalopods	<input type="radio"/> By 2014 <input type="radio"/> By 2018 <input type="radio"/> By 2020 <input type="radio"/> After 2020 <input checked="" type="radio"/> Not relevant
AnnexII_IV_V_Species		

	Habitats Directive Annex II, IV and V species	<input type="radio"/> By 2014 <input checked="" type="radio"/> By 2018 <input type="radio"/> By 2020 <input type="radio"/> After 2020 <input type="radio"/> Not relevant
WildBirdSpecies	Birds Directive Wild Bird Species	<input type="radio"/> By 2014 <input checked="" type="radio"/> By 2018 <input type="radio"/> By 2020 <input type="radio"/> After 2020 <input type="radio"/> Not relevant
FunctionalGroupOther	Other 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, plus all caught fish species. Benthische Organismen: Zoobenthos, Makroalgen, Angiospermen. Plankton: Phyto- und Zooplanktonarten. Neobiota: Alle funktionellen Gruppen, deren Vertreter potentiell über Eintragungspfade eingeschleppt werden können	<input type="radio"/> By 2014 <input checked="" type="radio"/> By 2018 <input type="radio"/> By 2020 <input type="radio"/> After 2020 <input type="radio"/> Not relevant

1d Physical/chemical

Which elements from MSFD Annex III relevant for your marine waters (as reported in your MS report for Art. 8) are not yet adequately covered by your Monitoring Programmes?

	Select all relevant physical/chemical elements (from MS Art. 8 report - features present)	Indicate by when each will be addressed by your monitoring programmes (select one per element listed) • Adequately covered by 2014 • In time for the next assessment due in 2018 • In time for the updating of monitoring programmes due on 2020 • Later than 2020 • Not relevant
TopographyBathymetry	Physical/chemical features: Topography/bathymetry	<input checked="" type="radio"/> By 2014 <input type="radio"/> By 2018 <input type="radio"/> By 2020 <input type="radio"/> After 2020 <input type="radio"/> Not relevant
SeaSurfaceTemperature	Physical/chemical features: Sea temperature (surface)	<input checked="" type="radio"/> By 2014 <input type="radio"/> By 2018 <input type="radio"/> By 2020 <input type="radio"/> After 2020 <input type="radio"/> Not relevant
SeaBottomTemperature	Physical/chemical features: Sea temperature (bottom)	<input checked="" type="radio"/> By 2014 <input type="radio"/> By 2018 <input type="radio"/> By 2020 <input type="radio"/> After 2020 <input type="radio"/> Not relevant
IceCover	Physical/chemical features: Ice cover	<input checked="" type="radio"/> By 2014 <input type="radio"/> By 2018 <input type="radio"/> By 2020 <input type="radio"/> After 2020 <input type="radio"/> Not relevant
Salinity	Physical/chemical features: Salinity	<input checked="" type="radio"/> By 2014 <input type="radio"/> By 2018 <input type="radio"/> By 2020 <input type="radio"/> After 2020 <input type="radio"/> Not relevant
CurrentVelocity	Physical/chemical features: Current velocity	<input checked="" type="radio"/> By 2014 <input type="radio"/> By 2018 <input type="radio"/> By 2020 <input type="radio"/> After 2020 <input type="radio"/> Not relevant
WaveExposure	Physical/chemical features: Wave exposure	<input type="radio"/> By 2014 <input type="radio"/> By 2018 <input checked="" type="radio"/> By 2020 <input type="radio"/> After 2020 <input type="radio"/> Not relevant
Upwelling	Physical/chemical features: Upwelling	<input type="radio"/> By 2014 <input type="radio"/> By 2018 <input checked="" type="radio"/> By 2020 <input type="radio"/> After 2020 <input type="radio"/> Not relevant
Mixing	Physical/chemical features: Mixing characteristics	<input checked="" type="radio"/> By 2014 <input type="radio"/> By 2018 <input type="radio"/> By 2020 <input type="radio"/> After 2020 <input type="radio"/> Not relevant
Turbidity	Physical/chemical features: Turbidity	<input checked="" type="radio"/> By 2014 <input type="radio"/> By 2018 <input type="radio"/> By 2020 <input type="radio"/> After 2020 <input type="radio"/> Not relevant
Transparency	Physical/chemical features: Transparency	<input checked="" type="radio"/> By 2014 <input type="radio"/> By 2018 <input type="radio"/> By 2020 <input type="radio"/> After 2020 <input type="radio"/> Not relevant
ResidenceTime	Physical/chemical features: Residence time	<input type="radio"/> By 2014 <input type="radio"/> By 2018 <input type="radio"/> By 2020 <input type="radio"/> After 2020 <input checked="" type="radio"/> Not relevant
NutrientLevels	Physical/chemical features: Nutrient levels	

		<input checked="" type="radio"/> By 2014 <input type="radio"/> By 2018 <input type="radio"/> By 2020 <input type="radio"/> After 2020 <input type="radio"/> Not relevant
OxygenLevels	Physical/chemical features: Oxygen levels	<input checked="" type="radio"/> By 2014 <input type="radio"/> By 2018 <input type="radio"/> By 2020 <input type="radio"/> After 2020 <input type="radio"/> Not relevant
pH	Physical/chemical features: pH	<input checked="" type="radio"/> By 2014 <input type="radio"/> By 2018 <input type="radio"/> By 2020 <input type="radio"/> After 2020 <input type="radio"/> Not relevant
PhysicalChemicalOther	Other Schadstoffe in Lebensmitteln (Art. 8 MSRL-Bericht, Nordsee, unter Kap. 4.5.1, S. 45)	<input type="radio"/> By 2014 <input checked="" type="radio"/> By 2018 <input type="radio"/> By 2020 <input type="radio"/> After 2020 <input type="radio"/> Not relevant

1d Pressures

Which elements from MSFD Annex III relevant for your marine waters (as reported in your MS report for Art. 8) are not yet adequately covered by your Monitoring Programmes?

	Select all relevant pressure elements (from MS Art. 8 report - features present)	Indicate by when each will be addressed by your monitoring programmes (select one per element listed) • Adequately covered by 2014 • In time for the next assessment due in 2018 • In time for the updating of monitoring programmes due on 2020 • Later than 2020 • Not relevant
PhysLoss_Smother	Pressure: Physical loss (smothering)	<input type="radio"/> By 2014 <input type="radio"/> By 2018 <input checked="" type="radio"/> By 2020 <input type="radio"/> After 2020 <input type="radio"/> Not relevant
PhysLoss_Seal	Pressure: Physical loss (sealing)	<input checked="" type="radio"/> By 2014 <input type="radio"/> By 2018 <input type="radio"/> By 2020 <input type="radio"/> After 2020 <input type="radio"/> Not relevant
PhysLoss	Pressure: Physical loss	<input checked="" type="radio"/> By 2014 <input type="radio"/> By 2018 <input type="radio"/> By 2020 <input type="radio"/> After 2020 <input type="radio"/> Not relevant
PhysDam_silt	Pressure: Physical damage (changes in siltation)	<input type="radio"/> By 2014 <input type="radio"/> By 2018 <input checked="" type="radio"/> By 2020 <input type="radio"/> After 2020 <input type="radio"/> Not relevant
PhysDam_abrasion	Pressure: Physical damage (abrasion)	<input type="radio"/> By 2014 <input type="radio"/> By 2018 <input checked="" type="radio"/> By 2020 <input type="radio"/> After 2020 <input type="radio"/> Not relevant
PhysDam_extraction	Pressure: Physical damage (selective extraction)	<input checked="" type="radio"/> By 2014 <input type="radio"/> By 2018 <input type="radio"/> By 2020 <input type="radio"/> After 2020 <input type="radio"/> Not relevant
PhysDam	Pressure: Physical damage	<input type="radio"/> By 2014 <input type="radio"/> By 2018 <input checked="" type="radio"/> By 2020 <input type="radio"/> After 2020 <input type="radio"/> Not relevant
PhysDisturbance	Pressure: Physical disturbance (Other)	<input type="radio"/> By 2014 <input type="radio"/> By 2018 <input checked="" type="radio"/> By 2020 <input type="radio"/> After 2020 <input type="radio"/> Not relevant
ChangeHydrology	Pressure: Interference with hydrological processes (Other)	<input checked="" type="radio"/> By 2014 <input type="radio"/> By 2018 <input type="radio"/> By 2020 <input type="radio"/> After 2020 <input type="radio"/> Not relevant
IntroHazSubstOther	Pressure: Contamination by hazardous substances (Other)	<input checked="" type="radio"/> By 2014 <input type="radio"/> By 2018 <input type="radio"/> By 2020 <input type="radio"/> After 2020 <input type="radio"/> Not relevant
SystematicReleaseSubst	Pressure: Systematic and/or intentional release of substances (solid)	<input type="radio"/> By 2014 <input type="radio"/> By 2018 <input type="radio"/> By 2020 <input checked="" type="radio"/> After 2020 <input type="radio"/> Not relevant
NutrientOrgEnrich	Pressure: Nutrient and organic matter enrichment (Other)	<input type="radio"/> By 2014 <input type="radio"/> By 2018 <input type="radio"/> By 2020 <input type="radio"/> After 2020 <input checked="" type="radio"/> Not relevant
InputN_Psubst	Pressure: Inputs of fertilisers and other N- and P-rich substances	<input checked="" type="radio"/> By 2014 <input type="radio"/> By 2018 <input type="radio"/> By 2020 <input type="radio"/> After 2020 <input type="radio"/> Not relevant
InputOrganics	Pressure: Inputs of organic matter	<input type="radio"/> By 2014 <input type="radio"/> By 2018 <input type="radio"/> By 2020 <input type="radio"/> After 2020 <input checked="" type="radio"/> Not relevant
BioDisturb_other	Pressure: Biological disturbance (Other)	<input type="radio"/> By 2014 <input type="radio"/> By 2018 <input type="radio"/> By 2020 <input checked="" type="radio"/> After 2020 <input type="radio"/> Not relevant
IntroMicroPath	Pressure: Introduction of microbial pathogens	<input type="radio"/> By 2014 <input type="radio"/> By 2018 <input type="radio"/> By 2020 <input checked="" type="radio"/> After 2020 <input type="radio"/> Not relevant
IntroNIS		

	Pressure: Introduction of non-indigenous species and translocations	<input type="radio"/> By 2014 <input checked="" type="radio"/> By 2018 <input type="radio"/> By 2020 <input type="radio"/> After 2020 <input type="radio"/> Not relevant
ExtractSpeciesAll	Pressure: Selective extraction of species	<input checked="" type="radio"/> By 2014 <input type="radio"/> By 2018 <input type="radio"/> By 2020 <input type="radio"/> After 2020 <input type="radio"/> Not relevant
Acidification	Pressure: Marine acidification	<input type="radio"/> By 2014 <input checked="" type="radio"/> By 2018 <input type="radio"/> By 2020 <input type="radio"/> After 2020 <input type="radio"/> Not relevant
Noise	Pressure: Underwater noise	<input type="radio"/> By 2014 <input checked="" type="radio"/> By 2018 <input type="radio"/> By 2020 <input type="radio"/> After 2020 <input type="radio"/> Not relevant
Litter	Pressure: Marine litter	<input type="radio"/> By 2014 <input type="radio"/> By 2018 <input checked="" type="radio"/> By 2020 <input type="radio"/> After 2020 <input type="radio"/> Not relevant
ChangeThermal	Pressure: Changes in thermal regime	<input checked="" type="radio"/> By 2014 <input type="radio"/> By 2018 <input type="radio"/> By 2020 <input type="radio"/> After 2020 <input type="radio"/> Not relevant
ChangeSalinity	Pressure: Changes in salinity regime	<input checked="" type="radio"/> By 2014 <input type="radio"/> By 2018 <input type="radio"/> By 2020 <input type="radio"/> After 2020 <input type="radio"/> Not relevant
IntroSynthComp	Pressure: Introduction of synthetic compounds	<input checked="" type="radio"/> By 2014 <input type="radio"/> By 2018 <input type="radio"/> By 2020 <input type="radio"/> After 2020 <input type="radio"/> Not relevant
IntroNonSynthSubst	Pressure: Introduction of non-synthetic substances and compounds	<input checked="" type="radio"/> By 2014 <input type="radio"/> By 2018 <input type="radio"/> By 2020 <input type="radio"/> After 2020 <input type="radio"/> Not relevant
IntroRadioNuclides	Pressure: Introduction of radio-nuclides	<input checked="" type="radio"/> By 2014 <input type="radio"/> By 2018 <input type="radio"/> By 2020 <input type="radio"/> After 2020 <input type="radio"/> Not relevant
AcutePollutionEvents	Pressure: Acute pollution events	<input type="radio"/> By 2014 <input checked="" type="radio"/> By 2018 <input type="radio"/> By 2020 <input type="radio"/> After 2020 <input type="radio"/> Not relevant
ExtractSpeciesFishShellfish	Pressure: Extraction of species: fish and shellfish	<input checked="" type="radio"/> By 2014 <input type="radio"/> By 2018 <input type="radio"/> By 2020 <input type="radio"/> After 2020 <input type="radio"/> Not relevant
ExtractSpeciesMaerl	Pressure: Extraction of species: maerl extraction	<input type="radio"/> By 2014 <input type="radio"/> By 2018 <input type="radio"/> By 2020 <input type="radio"/> After 2020 <input checked="" type="radio"/> Not relevant
ExtractSpeciesSeaweed	Pressure: Extraction of species: seaweed harvesting	<input type="radio"/> By 2014 <input type="radio"/> By 2018 <input type="radio"/> By 2020 <input type="radio"/> After 2020 <input checked="" type="radio"/> Not relevant
ExtractSpeciesOther	Pressure: Extraction of species: other	<input type="radio"/> By 2014 <input type="radio"/> By 2018 <input type="radio"/> By 2020 <input type="radio"/> After 2020 <input checked="" type="radio"/> Not relevant
PressureOther	Pressure: Other pressures	<input type="radio"/> By 2014 <input type="radio"/> By 2018 <input type="radio"/> By 2020 <input type="radio"/> After 2020 <input checked="" type="radio"/> Not relevant

1d Activities - 1e

Which elements from MSFD Annex III relevant for your marine waters (as reported in your MS report for Art. 8) are not yet adequately covered by your Monitoring Programmes?

	Select all relevant activity elements (from MS Art. 8 report - features present)	Indicate by when each will be addressed by your monitoring programmes (select one per element listed) • Adequately covered by 2014 • In time for the next assessment due in 2018 • In time for the updating of monitoring programmes due on 2020 • Later than 2020 • Not relevant
RenewableEnergy	Energy production: Marine-based renewable energy generation (wind)	<input checked="" type="radio"/> By 2014 <input type="radio"/> By 2018 <input type="radio"/> By 2020 <input type="radio"/> After 2020 <input type="radio"/> Not relevant
OilGas	Energy production: Marine hydrocarbon (oil and gas) extraction	<input checked="" type="radio"/> By 2014 <input type="radio"/> By 2018 <input type="radio"/> By 2020 <input type="radio"/> After 2020 <input type="radio"/> Not relevant
SeaweedOtherSeafood	Extraction of living resources: Seaweed and other sea-based food harvesting	<input type="radio"/> By 2014 <input type="radio"/> By 2018 <input type="radio"/> By 2020 <input type="radio"/> After 2020 <input checked="" type="radio"/> Not relevant
GeneticBioprospectMaerl	Extraction of living resources: Extraction of genetic resources/bioprospecting/maerl	<input type="radio"/> By 2014 <input type="radio"/> By 2018 <input type="radio"/> By 2020 <input type="radio"/> After 2020 <input checked="" type="radio"/> Not relevant
Fisheries	Extraction of living resources: Fisheries incl. recreational fishing (fish and shellfish)	<input checked="" type="radio"/> By 2014 <input type="radio"/> By 2018 <input type="radio"/> By 2020 <input type="radio"/> After 2020 <input type="radio"/> Not relevant

MiningSandGravel	Extraction of non-living resources: Marine mining (sand and gravel)	<input checked="" type="radio"/> By 2014 <input type="radio"/> By 2018 <input type="radio"/> By 2020 <input type="radio"/> After 2020 <input type="radio"/> Not relevant
Dredging	Extraction of non-living resources: Dredging	<input checked="" type="radio"/> By 2014 <input type="radio"/> By 2018 <input type="radio"/> By 2020 <input type="radio"/> After 2020 <input type="radio"/> Not relevant
Desalination	Extraction of non-living resources: Desalination/water abstraction	<input type="radio"/> By 2014 <input type="radio"/> By 2018 <input type="radio"/> By 2020 <input type="radio"/> After 2020 <input checked="" type="radio"/> Not relevant
Aquaculture	Food production: Aquaculture (fin-fish and shellfish)	<input type="radio"/> By 2014 <input checked="" type="radio"/> By 2018 <input type="radio"/> By 2020 <input type="radio"/> After 2020 <input type="radio"/> Not relevant
LandClaimDefence	Man-made structures (incl. construction phase): Land/sea physical interaction: land claim	<input type="radio"/> By 2014 <input checked="" type="radio"/> By 2018 <input type="radio"/> By 2020 <input type="radio"/> After 2020 <input type="radio"/> Not relevant
Ports	Man-made structures (incl. construction phase): Port operations	<input checked="" type="radio"/> By 2014 <input type="radio"/> By 2018 <input type="radio"/> By 2020 <input type="radio"/> After 2020 <input type="radio"/> Not relevant
CablesPipelines	Man-made structures (incl. construction phase): Submarine cable and pipeline operations	<input checked="" type="radio"/> By 2014 <input type="radio"/> By 2018 <input type="radio"/> By 2020 <input type="radio"/> After 2020 <input type="radio"/> Not relevant
OffshoreStructures	Man-made structures (incl. construction phase): Placement and operation of offshore structures (other than for energy production)	<input checked="" type="radio"/> By 2014 <input type="radio"/> By 2018 <input type="radio"/> By 2020 <input type="radio"/> After 2020 <input type="radio"/> Not relevant
Defence	Military: Defence - recurrent defence operations	<input checked="" type="radio"/> By 2014 <input type="radio"/> By 2018 <input type="radio"/> By 2020 <input type="radio"/> After 2020 <input type="radio"/> Not relevant
DumpingMunitions	Military: Defence - dumping of unwanted munitions	<input type="radio"/> By 2014 <input checked="" type="radio"/> By 2018 <input type="radio"/> By 2020 <input type="radio"/> After 2020 <input type="radio"/> Not relevant
TourismRecreation	Recreation: Tourism and recreation incl. yachting	<input type="radio"/> By 2014 <input checked="" type="radio"/> By 2018 <input type="radio"/> By 2020 <input type="radio"/> After 2020 <input type="radio"/> Not relevant
ResearchSurvey	Research and survey: Marine research	<input type="radio"/> By 2014 <input type="radio"/> By 2018 <input checked="" type="radio"/> By 2020 <input type="radio"/> After 2020 <input type="radio"/> Not relevant
Shipping	Transport: Shipping	<input type="radio"/> By 2014 <input checked="" type="radio"/> By 2018 <input type="radio"/> By 2020 <input type="radio"/> After 2020 <input type="radio"/> Not relevant
SolidWasteDisposal	Waste disposal: Solid waste disposal incl. dredge material	<input checked="" type="radio"/> By 2014 <input type="radio"/> By 2018 <input type="radio"/> By 2020 <input type="radio"/> After 2020 <input type="radio"/> Not relevant
StorageGases	Waste disposal: Storage of gasses	<input type="radio"/> By 2014 <input type="radio"/> By 2018 <input type="radio"/> By 2020 <input type="radio"/> After 2020 <input checked="" type="radio"/> Not relevant
Industry	Land-based activities/industries: Coastal, riverine and atmospheric inputs from land - industrial discharges	<input checked="" type="radio"/> By 2014 <input type="radio"/> By 2018 <input type="radio"/> By 2020 <input type="radio"/> After 2020 <input type="radio"/> Not relevant
AgricultForestry	Land-based activities/industries: Coastal, riverine and atmospheric inputs from land - agricultural run-off, forestry and emissions	<input type="radio"/> By 2014 <input checked="" type="radio"/> By 2018 <input type="radio"/> By 2020 <input type="radio"/> After 2020 <input type="radio"/> Not relevant
Urban	Land-based activities/industries: Coastal, riverine and atmospheric inputs from land - municipal waste water discharge	<input checked="" type="radio"/> By 2014 <input type="radio"/> By 2018 <input type="radio"/> By 2020 <input type="radio"/> After 2020 <input type="radio"/> Not relevant
ActivitiesUsesAll	Activities Uses All	<input type="radio"/> By 2014 <input type="radio"/> By 2018 <input type="radio"/> By 2020 <input type="radio"/> After 2020 <input checked="" type="radio"/> Not relevant
UsesActivitiesOther	Uses Activities Other	<input type="radio"/> By 2014 <input type="radio"/> By 2018 <input type="radio"/> By 2020 <input type="radio"/> After 2020 <input checked="" type="radio"/> Not relevant

1e: Gaps and plans

Explain the gaps and describe your plans to complete coverage. Provide justification for not including specific GES criteria, environmental targets and Annex III characteristics in your monitoring programmes which you have reported under Art. 8, 9 and 10 as being relevant to your Member State waters (e.g. based on risk assessment)

Für die Umsetzung von Art. 11 MSRL in Deutschland werden die Unterschiede der Indikatoren in Bezug auf den wissenschaftlichen Kenntnisstand und die Operationalität bei ihrer Einbeziehung zur Bewertung von Umweltzustand, Umweltzielen und Maßnahmeneffizienz berücksichtigt. In einigen Fällen (z.B. biologische Vielfalt, Nahrungsnetze, Habitate im Sublitoral, Abfälle im Meer und Einleitungen von Energie) sind zunächst Wissenslücken zu schließen, bevor spezifische, sinnvolle und kosten-effiziente Messprogramme entwickelt und ggf. etabliert werden können. Lücken zeigen sich hinsichtlich: - GES mit einer inadäquaten Bewertung für die Deskriptoren D1, D4, D6 und D10, sowie einer teilweise adäquaten Bewertung für D2, D5, D7, D8, D9, D11. - UZ mit einer inadäquaten Bewertung für die Deskriptoren D2, D3, D7, sowie einer teilweise adäquaten Bewertung für D1, D4, D5, D6, D8, D9, D10, D11 (insbesondere fehlt Spezifizierung und Quantifizierung der Ziele). Die MSRL Indikatoren befinden sich in unterschiedlichen Entwicklungsstadien und müssen teilweise

noch weiter entwickelt werden. Pläne/Begründungen: Bestehende Lücken im Monitoringprogramm sollen, soweit als sinnvoll und effizient erachtet, schrittweise u.a. mit Hilfe von Forschungs- und Entwicklungsprojekten geschlossen werden, mit dem Ziel, die Indikatoren und damit den Umweltzustand, die Zieleerreichung und die Maßnahmeneffizienz bis 2018 bewerten und bis 2020 die Monitoringprogramme aktualisieren und anpassen zu können. Dabei zu berücksichtigen sind dabei auch die 2015 zu erarbeitenden Maßnahmen nach Art. 13 MSRL, die laufende Operationalisierung von Indikatoren auf nationaler und regionaler Ebene, die Überarbeitung des Kommissionsbeschlusses 2010/477/EU). Informationen zur weiteren Entwicklung der Indikatoren sind der nationalen Indikatorenliste (Anhang V zum Teil A des Überwachungsprogramms/Rakon) zu entnehmen. Insbesondere Deskriptoren, die bisher national nicht umfassend im Monitoring berücksichtigt wurden (z.B. D10, D11, teilweise D2), haben noch hohen Entwicklungsbedarf. Die Kriterien zur Priorisierung der Überprüfung und Operationalisierung der Indikatoren werden im Rahmenkonzept dargelegt. Die Monitoring-Kennblätter des nationalen Monitoring-Handbuchs www.blmp-online.de/monitoringhandbuch.htm (Teil B des deutschen Monitoringprogramms gem. Art. 11 MSRL) informieren detaillierter über die bestehenden Monitoringlücken und die Pläne (z.B. Titel und Laufzeit eines Forschungs- und Entwicklungsprojekts) zu deren Schließung. Im Jahr 2015 wird im Rahmen der kontinuierlichen Aktualisierung und Fortschreibung ein runderneutes Monitoring-Handbuch auf www.meeresschutz.info/monitoringhandbuch.html veröffentlicht. Auf der Grundlage des nationalen Berichtes gem. Art. 9 MSRL werden für die Indikatoren Bewertungsverfahren entwickelt, die auch die (verbesserte) Quantifizierung des GES umfassen werden (unter Berücksichtigung der Empfehlungen der EU, ICES und regionalen Konventionen). Geplant ist, übergeordnete Bewertungsverfahren im nationalen Monitoring-Handbuch in Form von Bewertungskennblättern darzulegen. Die Quantifizierung der Umweltziele setzt verbesserte Methoden zur Berechnung und Bewertung der Indikatoren voraus (Stichwort SMART), die sich für eine Reihe von Deskriptoren derzeit in nationaler und internationaler Abstimmung befinden (besonders mit Bezug zu Biodiversität). Ausführliche Erläuterungen können auch der nationalen Mitteilung mit Anmerkungen zum EU KOM-Bericht gem. Art. 12 MSRL entnommen werden.

2a: Public consultation dates

Public consultation dates:

From: (YYYY-MM-DD e.g. 2011-01-29)	To: (YYYY-MM-DD e.g. 2013-12-31)	2b: Describe the public consultation process
2013-10-15	2014-04-14	Öffentlichkeitsbeteiligung (ÖB): Bund und Küstenländer erarbeiteten einen Entwurf für einen Papierbericht mit dem Titel "Überwachungsprogramme gemäß § 45 f Abs. 1 WHG zur Umsetzung von Art. 11 MSRL : Teil A – Rahmenkonzept". Der Entwurf wurde am 14. Oktober 2013 auf www.meeresschutz.info/index.php/oeb-allgemeines.html veröffentlicht und bei einer Auftaktveranstaltung am 15.10.2013 in Hamburg betroffenen und interessierten Bürgerinnen und Bürgern, Verbänden, Institutionen u.a. vorgestellt. Die Öffentlichkeit hatte Gelegenheit, vom 15.10.2013 bis 14.04.2014 schriftlich zum Entwurf Stellung zu nehmen (sechs Monate gemäß § 45 f Abs. 1 Wasserhaushaltsgesetz, WHG). Es gingen fünf Stellungnahmen ein. Bund und Küstenländer begrüßten und prüften die Stellungnahmen und entschieden, ob und in welcher Form diese in das Rahmenkonzept für das MSRL-Monitoring eingehen. Das Ergebnis dieser Prüfung wurde in Form einer Synopse dargestellt. Zusammen mit dem nach der Öffentlichkeitsbeteiligung überarbeiteten Rahmenkonzept wird die Synopse ab 15.10.2014 ebenfalls auf www.meeresschutz.info veröffentlicht. Die Inhalte der EIONET-Webformulare zu den Sub- und Monitoringprogrammen waren nicht Bestandteil der Öffentlichkeitsbeteiligung, da sowohl die Spezifikationen an den Formularen seitens EU als auch deren fachliche Befüllung durch deutsche Experten noch über den Zeitraum der ÖB hinaus durchgeführt wurden.

3a: Regional cooperation

Where can additional information be found on your regional cooperation on monitoring programmes (if information is additional to that already provided under article 6, 7, 8, 9 and 10)? Describe issues on cooperation that have not been reported before (under Art. 7 or Art. 8, 9 and 10), such as consistency in methodology. Provide web link or section in paper report.

In Deutschland werden die Monitoringanforderungen aller meeresrelevanten EG-Richtlinien und internationalen Übereinkommen in einem gemeinsamen nationalen Messprogramm (Bund-/Ländermessprogramm, BLMP) von den zuständigen Institutionen des Bundes und der Länder umgesetzt. Die MSRL-Subprogramme des nationalen Monitorings bedienen somit auch die Überwachungsanforderungen des OSPAR-Übereinkommens, die teilweise in den OSPAR MSFD-fact sheets (http://www.ospar.org/content/content.asp?menu=0152083800000_000000_000000) dargestellt sind. Weiterführende Informationen zum nationalen Monitoring und der Erfüllung der verschiedenen Überwachungsanforderungen finden sich im nationalen Monitoring-Handbuch unter www.blmp-online.de/Seiten/Monitoringhandbuch.htm (mit dem dort angegebenen Bearbeitungsstand). Nach einem Systemwechsel werden ab Mitte 2015 aktuelle Informationen unter www.meeresschutz.info/monitoringhandbuch.html bereitgestellt und entsprechende Verlinkungen zwischen den regionalen und nationalen Subprogrammen hergestellt. -- siehe auch PDF-Bericht "Überwachungsprogramme gemäß § 45 f Abs. 1 WHG zur Umsetzung von Art. 11 MSRL : Teil A – Rahmenkonzept", 2.2 Regionale Koordinierung und Kohärenz, Nr. 36 - 49 und 3.6 OSPAR, TWSC, HELCOM und MSRL, Nr. 73 - 76

3b: Transboundary impacts and features

Where can additional information be found on your consideration of transboundary impacts and features in monitoring programmes (Article 11.2b)? Provide web link or section in paper report.

siehe PDF-Bericht "Überwachungsprogramme gemäß § 45 f Abs. 1 WHG zur Umsetzung von Art. 11 MSRL : Teil A – Rahmenkonzept", 4.3 Grenzüberschreitende Belange, Nr. 103 - 107

3c: Major environmental changes and emerging issues

Where can additional information be found on the ability of the monitoring programmes to identify major changes[3] in the environment (Annex V.11) and on the ability of the monitoring programmes to identify new and emerging issues (Annex V.11)? Provide web link or section in paper report.

Es gibt derzeit keine weiteren Informationen dazu, die über die Inhalte der Monitoringprogramme oder das Rahmenkonzept hinausgehen.

3d: Source of contaminants in seafood

Where can additional information be found on chemical contaminants in species for human consumption linked to commercial fishing areas (Annex V.5)? Provide web link or section in paper report or reference the relevant sub-programme for Descriptor 9.

Es ist derzeit nicht möglich, Fundstellen schadstoffbelasteter, für den menschlichen Verzehr bestimmter Arten einerseits und Handelsfischereigebiete andererseits zu verschneiden und darzustellen. Erläuterung: Das Monitoring für D9 ist derzeit in Organisation begriffen, geprüft wird auch die Nutzung von Monitoringdaten aus anderen Monitoringprogrammen. Ein eigens aufgestelltes MSRL-Monitoring zu D9 wird es nicht geben, vielmehr wird das bestehende Lebensmittelmonitoring von Bund und Ländern genutzt werden. Die dort erhobenen relevanten Daten können auch für D9 verwendet werden. Dies ist im ersten MSRL-Berichtszklus aber noch nicht möglich.

3e: Access and use rights

Where can additional information be found on how you intend to provide access and use rights in respect of data and information from the monitoring programmes (Article 19 (3)), including: - the type of data - method/mechanism used to make it available - use rights for EC/EEA - INSPIRE standards used - when the data will first be available - frequency of update of the data. Provide web link or section in paper report.

Wie im Rahmen der Umsetzung von Artikel 19.3 der MSRL im CIS-Prozess abgestimmt, werden alle Daten und Produkte via Metadaten im nationalen Metadatenkatalog (<http://geoportal.bafg.de/wasserblick-csw-client/?lang=de&page=1&searchtext=&hits=50&service=1&modell=1&data=1&other=1&id=bfg>) erfasst und zugänglich gemacht. Die Bezugsquelle für die Daten aus den nationalen Messprogrammen wird in den Metadaten festgelegt. Die HELCOM- und OSPAR-relevanten Daten aus den hydrografischen, biologischen und chemischen Messprogrammen werden regelmäßig dem ICES (international data centre) übermittelt. Die EEA kann diese Daten wie bisher über den ICES beziehen. Die Bezugswege für die darüber hinaus gehenden Daten und Produkte befinden sich im Aufbau. Die entsprechenden Metadaten werden die Bezugsquellen ausweisen. Siehe auch PDF-Bericht "Überwachungsprogramme gemäß § 45 f Abs. 1 WHG zur Umsetzung von Art. 11 MSRL : Teil A – Rahmenkonzept", 4.6 Daten- und Informationsinfrastruktur, Nr. 118 - 119. Ansonsten existieren zu dem Thema derzeit keine weiteren Informationen, die über die Inhalte der Monitoringprogramme hinausgingen.

4a: Responsible Competent Authority

Name of a Competent Authority which is responsible for the monitoring programmes and who will act as a contact point for the Commission.

Aufgrund der föderalen Struktur Deutschlands sind mehrere oberste Bundes- und Landesbehörden für die Durchführung des Meeresmonitorings zuständig. Das Bundesumweltministerium fungiert als Kontaktpunkt bezüglich des MSRL-Monitorings. - DE-BMU (Contact point) Federal Ministry for the Environment, Nature Conservation, Building and Nuclear Safety Bundesministerium für Umwelt, Naturschutz, Bau und Reaktorsicherheit (BMUB) Robert-Schuman-Platz 3 53175 Bonn Germany - Federal Ministry of Transport and Digital Infrastructure Bundesministerium für Verkehr und digitale Infrastruktur (BMVI) Robert-Schuman-Platz 1 53175 Bonn - Federal Ministry of Food and Agriculture Bundesministerium für Ernährung und Landwirtschaft (BMEL) Rochusstraße 1 53123 Bonn - DEHB0044 Senator for Environment, Construction and Transport of the Free Hanseatic City of Bremen Der Senator für Umwelt, Bau und Verkehr Ansgaritorstr. 2 28195 Bremen - DEHH5900 Ministry of Urban Development and Environment of the Free and Hanseatic City of Hamburg Behörde für Stadtentwicklung und Umwelt der Freien und Hansestadt Hamburg Neuenfelder Straße 19 21109 Hamburg - DENI0301 Ministry of Environment and Climate Protection of Lower Saxony Niedersächsisches Ministerium für Umwelt und Klimaschutz Archivstraße 2 30169 Hannover - DESH0001 Ministry of Agriculture, the Environment and Rural Areas Ministerium für Landwirtschaft, Umwelt und ländliche Räume (MELUR) Mercatorstraße 3 24106 Kiel

4b: Responsible Organisation

If the delivery of the monitoring programmes is delegated to other organisations, these can also be listed (optional).

Name(s) of responsible organisations

-

4c: Relationship To CA

Explain the relationship of the responsible organisations to the CA (e.g. an agency of the CA, via contract). Free text or URL web link or section in paper report

-

D2 Non-indigenous species

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

,

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_031	Non-indigenous species - abundance and/or biomass

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_006

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

Mit einer Abschätzung des Trends bei der Einschleppung von nicht-heimischen Arten soll gezeigt werden, ob Maßnahmen der Minimierung der Einschleppungen greifen. Dazu müssen Neobiota in verschiedenen taxonomischen Ebenen und in ausgewählten repräsentativen Gebieten erfasst werden. Im Küstenbereich und auf der Hohen See wird dazu auf bereits laufende Erfassungen im Rahmen des biologischen Monitorings (Makrophyten, Makrozoobenthos, Phytoplankton, Zooplankton) zurückgegriffen. Mit Aufnahme des biologischen Monitorings wurden als Nebeneffekt auch nicht heimische Arten registriert. Künftig sollen bei der Untersuchung der Proben Neobiota auch gezielt erfasst werden. Während im Küstenbereich und auf der Hohen See bereits seit längerer Zeit Proben gewonnen werden, wurden Marinas und Häfen erst mit Aufnahme von Projekten zum "Rapid assesment" untersucht. Zusätzlich führen die Küstenbundesländer Schleswig-Holstein, Mecklenburg-Vorpommern und künftig auch Niedersachsen Projekte zur Basiserhebung an ausgewählten Standorten in Marinas und Häfen durch.

5a: Relevant GES criteria

Which GES criteria are addressed by the programme?

Select all relevant from list: GES criteria

2.1: Abundance and state characterisation of non-indigenous species, in particular invasive 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

8.2.2: Occurrence

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 - all**
 Water column habitats - all

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)

- Other**

Description of Other (if selected):

Alle funktionellen Gruppen, deren Vertreter potentiell über Eintragspfade eingeschleppt werden können.

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: Introduction of non-indigenous species and translocations**

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? **Yes**

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

5e: Natural variability

How does the programme address natural variability?

- In a quantitative process** **Expert opinion**
 In a qualitative process **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

Das Programm dient der Bewertung des Deskriptors D 2 (nicht einheimische Arten) und der Überwachung der Erreichung des Umweltzieles 3.5 (Die Gesamtzahl von Einschleppungen und Einbringungen neuer Arten geht gegen Null. Zur Minimierung der (unbeabsichtigten) Einschleppung sind Vorbeugemaßnahmen implementiert. Neu auftretende Arten werden so rechtzeitig erkannt, dass ggf. Sofortmaßnahmen mit Aussicht auf Erfolg durchgeführt werden können. Die Zeichnung und Umsetzung bestehender Verordnungen und Konventionen sind hierfür eine wichtige Voraussetzung) Mit einer Abschätzung des Trends bei der Einschleppung von nicht-heimischen Arten soll gezeigt werden, ob Maßnahmen der Minimierung der Einschleppungen greifen. Dazu müssen Neobiota in verschiedenen taxonomischen Ebenen und in ausgewählten repräsentativen Gebieten erfasst 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

Künftig sollen im Rahmen des biologischen Monitorings (Makrophyten, Makrozoobenthos, Phytoplankton, Zooplankton, Fische) Neobiota auch gezielt erfasst werden. Während im Küstenbereich und auf der Hohen See bereits Proben gewonnen werden, wurden Marinas und Häfen bisher nicht untersucht. Mit Projekten der Küstenbundesländer Schleswig-Holstein, Mecklenburg-Vorpommern und künftig auch Niedersachsen wird eine Basiserhebung an ausgewählten Standorten in Marinas und Häfen durchgeführt. Die Grundlage wird das sogenannte „rapid assessment“ sein, bei dem die Probenahme auf Benthosorganismen konzentriert ist. Zusätzlich wird das im Rahmen von OSPAR und HELCOM entwickelte Untersuchungsprogramm („Joint HELCOM/OSPAR Guidelines for the Contracting Parties of OSPAR and HELCOM on the granting of exemptions under International Convention for the Control and Management of Ships' Ballast Water and Sediments, Regulation A-4, Adopted by HELCOM Ministerial Meeting, 3 October 2013 in Copenhagen and OSPAR Agreement 2013-09) eingesetzt. Aufbauend auf den Ergebnissen wird das endgültige Monitoring entwickelt.

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_3.5.1

UZN3_IND_3.5.2

UZN3_IND_3.5.3

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? **Yes**

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

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

6c: Target updating

Will the data and information collected enable the regular updating of targets: Yes or no? **Yes**

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

Mit dem Monitoring soll die Rate neu eingeschleppter Arten in einem festen Zeitraum erfasst werden. Eine Verringerung der Rate wird als Schritt in Richtung des Ziels "Einschleppungen gehen gegen Null" gewertet.

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. Künftig sollen im Rahmen des biologischen Monitorings (Makrophyten, Makrozoobenthos, Phytoplankton, Zooplankton,

Fische) Neobiota auch gezielt erfasst werden. Während im Küstenbereich und auf der Hohen See bereits Proben gewonnen werden, wurden Marinas und Häfen bisher nicht untersucht. Mit Projekten der Küstenbundesländer Schleswig-Holstein, Mecklenburg-Vorpommern und künftig auch Niedersachsen wird eine Basiserhebung an ausgewählten Standorten in Marinas und Häfen durchgeführt. Die Grundlage wird das sogenannte „rapid assessment“ sein, bei dem die Probenahme auf Benthosorganismen konzentriert ist. Zusätzlich wird das im Rahmen von OPSAP und HELCOM entwickelte Untersuchungsprogramm („Joint HELCOM/OSPAR Guidelines for the Contracting Parties of OSPAR and HELCOM on the granting of exemptions under International Convention for the Control and Management of Ships’ Ballast Water and Sediments, Regulation A-4, Adopted by HELCOM Ministerial Meeting, 3 October 2013 in Copenhagen and OSPAR Agreement 2013-09) eingesetzt. Aufbauend auf den Ergebnissen wird das endgültige Monitoring entwickelt.

7a: Link to relevant activities

Which activities will the programme address?

- Food production: Aquaculture (fin-fish and shellfish)
- Recreation: Tourism and recreation incl. yachting
- Transport: Shipping

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

Mit dem Monitoring soll die Rate neu eingeschleppter Arten in einem festen Zeitraum erfasst werden. Eine Verringerung der Rate wird als Schritt in Richtung des Ziels "Einschleppungen gehen gegen Null" gewertet.

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. Mit dem Monitoring soll die Rate neu eingeschleppter Arten in einem festen Zeitraum erfasst werden. Damit wird überprüft, ob Maßnahmen wie z.B. Ballastwassermanagement Erfolge zeigen. Eine Verringerung der Rate wird als Schritt in Richtung des Ziels "Einschleppungen gehen gegen Null" gewertet.

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? **Yes**

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 checked="" 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 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):

D3 Biodiversity - commercial fish and shellfish**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_118	Mobile species - mortality/injury rates from fisheries (targeted and/or incidental)
ANSDE_Sub_112	Mobile species - abundance and/or biomass
ANSDE_Sub_120	Mobile species - population characteristics

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_007

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 kommerziell genutzten Fischbestände erfasst die Abundanz und biologische Parameter einzelner Bestände sowie die Fangzusammensetzungen in der kommerziellen Fischerei in der Nordsee. Das Monitoring erfasst somit Zustände von Fischbeständen, Fischgemeinschaften und die Auswirkung von Fischerei (D3).

5a: Relevant GES criteria

Which GES criteria are addressed by the programme?

Select all relevant from list: GES criteria

- 3.1: Level of pressure of the fishing activity**
- 3.2: Reproductive capacity of the stock**
- 3.3: Population age and size distribution**

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"/> 3.1.1: Fishing mortality | <input checked="" type="checkbox"/> 3.3.2: Mean maximum length across all species found in research vessel surveys |
| <input checked="" type="checkbox"/> 3.1.2: Ratio between catch and biomass index | <input checked="" type="checkbox"/> 3.3.3: 95% percentile of the fish length distribution observed in research vessel surveys |
| <input checked="" type="checkbox"/> 3.2.1: Spawning stock biomass (SSB) | <input checked="" type="checkbox"/> 3.3.4: Size at first sexual maturation |
| <input checked="" type="checkbox"/> 3.2.2: Biomass indices | |
| <input checked="" type="checkbox"/> 3.3.1: Proportion of fish larger than the mean size of first sexual maturation | |

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
- 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)

- Pressure: Selective extraction of species**
 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? **Yes**

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

- In a quantitative process** **Expert opinion**
 In a qualitative process **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 Erfassung der kommerziellen Fänge und die wissenschaftliche Untersuchung von Fischpopulationen/-Beständen erlaubt die Abschätzung von Fangempfehlungen entsprechend des MSY-Ansatzes. Der MSY-Ansatz ist die Basis für die GES-Festlegung innerhalb von D3.

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

Aufgrund von unzureichenden Daten liegen nicht für alle genutzten Bestände analytische Bewertungen vor, so dass derzeit nicht für alle Bestände ermittelt werden kann, ob sie nach dem MSY-Prinzip befischt werden. Es gibt aber vielversprechende Ansätze innerhalb der angewandten Fischereiforschung für die Bewertung dieser datenärmeren Bestände. Wie eine Bewertung des Längenkriteriums unter D3 aussehen könnte, ist gegenwärtig unklar. Hierzu wird jedoch auf internationaler Ebene (ICES) geforscht.

6a: Relevant targets (from Art. 10)

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

- UZN4**

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

- UZN4_IND_4.1.1**
 UZN4_IND_4.1.2
 UZN4_IND_4.2.1
 UZN4_IND_4.2.2

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? **Yes**

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

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

6c: Target updating

Will the data and information collected enable the regular updating of targets: Yes or no? **Yes**

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

Auch wenn die derzeitige Bewertung von Fischbeständen noch Lücken aufweist, werden die methodischen Innovationen und vorhandenen Daten eine repräsentative Bewertung der fischereilichen Nutzung erlauben.

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. Es fehlen noch Bewertungsmethoden für datenarme Bestände, für die es in der angewandten Fischereiforschung vielversprechende Ansätze gibt. Es ist zu erwarten, dass bis 2018 einige dieser Methoden Eingang in das ICES-Bewertungssystem finden werden. Es fehlen noch Bewertungsmethoden für datenarme Bestände sowie für das Längenkriterium unter D3

7a: Link to relevant activities

Which activities will the programme address?

Extraction of living resources: Fisheries incl. recreational fishing (fish and shellfish)

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 zu D3 bezieht sich auf die kommerzielle Fischerei.

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. Das derzeitige Monitoring von D3 erlaubt eine regelmäßige Bestandsbewertung der Hauptzielarten. Das Spektrum der

bewerteten Arten wird durch neue Bewertungsansätze in Zukunft noch breiter und somit noch repräsentativer werden. Die Bestandsbewertungen erlauben die Einschätzung, wie viele der genutzten Bestände entsprechend den MSY-Zielen genutzt 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? **Yes**

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 type="checkbox"/> Water Framework Directive |
| <input checked="" type="checkbox"/> Common Fisheries Policy - Data Collection Framework | <input type="checkbox"/> Barcelona Convention UNEP/MAP |
| <input 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 type="checkbox"/> Trilateral Wadden Sea Cooperation |
| | <input type="checkbox"/> Other (specify) |

Description of Other (if selected):

D5 Eutrophication

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

,

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_033	Nutrient inputs - from atmosphere
ANSDE_Sub_034	Nutrient inputs - sea-based sources
ANSDE_Sub_037	Pelagic habitats - community characteristics
ANSDE_Sub_042	Plankton blooms (biomass, frequency)
ANSDE_Sub_047	Water column - chemical characteristics

ANSDE_Sub_049

Water column - physical characteristics

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_008

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 Eutrophierungsmonitoring berücksichtigt sowohl die Nährstoffeinträge (flussbürtig und atmosphärisch), die Nährstoffkonzentrationen als auch die direkten und indirekten Eutrophierungseffekte. Über die OSPAR Common Procedure werden unterschiedliche Belastungssituationen identifiziert, so dass das Monitoring entsprechend differenziert erfolgen kann.

5a: Relevant GES criteria

Which GES criteria are addressed by the programme?

Select all relevant from list: GES criteria

- 1.2: Population size**
- 5.1: Nutrients levels**
- 5.2: Direct effects of nutrient enrichment**
- 5.3: Indirect effects of nutrient enrichment**

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"/> 1.2.1: Population abundance and/or biomass | <input checked="" type="checkbox"/> 5.2.3: Abundance of opportunistic macroalgae |
| <input checked="" type="checkbox"/> 5.1.1: Nutrients concentration in the water column | <input checked="" type="checkbox"/> 5.2.4: Species shift in floristic composition such as diatom to flagellate ratio |
| <input checked="" type="checkbox"/> 5.1.2: Nutrient ratios (silica) | <input checked="" type="checkbox"/> 5.3.1: Abundance of perennial seaweeds and seagrasses adversely impacted by decrease in water transparency |
| <input checked="" type="checkbox"/> 5.2.1: Chlorophyll concentration in the water column | <input checked="" type="checkbox"/> 5.3.2: Dissolved oxygen |
| <input checked="" type="checkbox"/> 5.2.2: Water transparency related to increase in suspended algae | |

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)

- Water column habitats - all**

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):

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)

- Physical/chemical features: Sea temperature (surface)
- Physical/chemical features: Salinity
- Physical/chemical features: Transparency
- Physical/chemical features: Nutrient levels
- Physical/chemical features: Oxygen levels
- Physical/chemical features: pH

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: Nutrient and organic matter enrichment (Other)
- Pressure: Inputs of organic matter

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? **Yes**

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?

- 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

Mit dem Monitoring soll überprüft werden, ob die entsprechenden Maßnahmen zur Reduzierung der Eutrophierung führen und sich dies sowohl in den direkten als auch in den indirekten Eutrophierungseffekten zeigt. Diese können ebenso wie die Nährstoffkonzentrationen quantitativ bewertet werden, womit auch eine Aussage über die Entfernung vom Bewirtschaftungszielwert (2,8 mg/l TN am Übergabepunkt limnisch- marin) sowie über Trends möglich ist. Aufgrund des fehlenden biologischen Monitorings in der AWZ (seit 2012) sind für dieses Gebiet Aussagen über die letzten Jahre nicht möglich.

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

Da das Eutrophierungsmonitoring bereits eine lange Historie hat gibt es nur wenige Lücken (z.B. Messung der Versauerung, atmosphärische Deposition von Phosphor etc.), die in den nächsten Jahren mit Hilfe von zum Teil bereits begonnenen oder geplanten (Pilot-)Projekten geschlossen werden sollen. Insbesondere

müssen die momentan bei OSPAR entwickelten regionalen Indikatoren ausgestaltet und durch ein entsprechendes Monitoring abgesichert werden (z.B. Zooplankton).

6a: Relevant targets (from Art. 10)

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

UZN1

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

UZN1_IND_1.1.1

UZN1_IND_1.2.1

UZN1_IND_1.2.2

UZN1_IND_1.3.1

UZN1_IND_1.3.2

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

,

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? **Yes**

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

6c: Target updating

Will the data and information collected enable the regular updating of targets: Yes or no? **Yes**

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

Mit dem Monitoring soll überprüft werden, ob die entsprechenden Maßnahmen zur Reduzierung der atmosphärischen Einträge, Flusseinträge und Ferneinträge führen und sich dies sowohl in den direkten als auch in den indirekten Eutrophierungseffekten zeigt. UZO1_IND_1.2.1 (Ferneinträge): Zur Quantifizierung der Ferneinträge ist eine aufwändige Modellierung erforderlich, die bisher nicht routinemäßig etabliert ist. Darüber hinaus fehlen erforderliche Eingangsdaten für die Modellierung (TN, TP von allen Nordseeanrainern - diese Parameter sind bei OSPAR nicht obligatorisch und werden somit nicht von allen Nordseeanrainern erfasst und berichtet). UZO1_IND_1.3.2 (atmosphärische Deposition von Phosphor): Für die atmosphärische Deposition von Phosphor wird bisher nur ein Hintergrundwert zu Grunde gelegt, ein Messprogramm wurde bisher weder national noch regional etabliert. UZO1_IND_1.3.1 und IND_1.3.2 Hinsichtlich der atmosphärischen Emission und Deposition von Stickstoff kann momentan nicht auf EMEP-Berichte für OSPAR zurückgegriffen werden, da OSPAR diese nicht anfordert. Für die anderen Umweltzielindikatoren bestehen keine Lücken und eine Aussage zur Zielerreichung ist mit dem vorliegenden Monitoring möglich.

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. Da das Eutrophierungsmonitoring bereits eine lange Historie hat gibt es nur wenige Lücken (z.B. Messung der Versauerung, atmosphärische Deposition von Phosphor etc.), die in den nächsten Jahren mit Hilfe von zum Teil bereits begonnen oder geplanten (Pilot-)Projekten behoben werden (z.B. Pilotmonitoring atmosphärische Deposition von Phosphor geplant. Für die nächste Anwendung der Common Procedure wird sich DE national um entsprechende EMEP-Produkte bemühen (Depositionskarten nach OSPAR-Bewertungsgebieten und Zuordnung der Deposition zu den Verursachern) um die Indikatoren 1.3.1. und 1.3.2. zu bedienen.

7a: Link to relevant activities

Which activities will the programme address?

- Land-based activities/industries: Coastal, riverine and atmospheric inputs from land - industrial discharges**
- Land-based activities/industries: Coastal, riverine and atmospheric inputs from land - agricultural runoff, forestry and emissions**
- Land-based activities/industries: Coastal, riverine and atmospheric inputs from land - municipal waste water discharge**

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

DE nutzt zur Quantifizierung von Nährstoffemission aus punktuellen und diffusen Quellen in die Oberflächengewässer Deutschland routinemäßig Stoffeintragsmodelle (MONERIS, MoRe). Diese Modelle ermöglichen die Quantifizierung der unterschiedlichen Eintragspfade der Nährstoffemissionen (z.B. Grundwasser, Erosion, atmosphärische Deposition, Oberflächenabfluss, Dränagen, Punktquellen, urbane Gebiete) und somit die Steuerung von Maßnahmen zur Reduktion der Nährstoffeinträge. Siehe: <http://www.umweltbundesamt.de/daten/gewaesserbelastung/fliessgewaesser/eintraege-von-naehr-schadstoffen-in-die>

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. Zu jeder Maßnahme sind entsprechende Indikatoren vorgesehen, die den Erfolg der Maßnahme anzeigen. Mit dem Monitoring zu Deskriptor 5 "Eutrophierung" soll überprüft werden, ob das Maßnahmenbündel zur Reduzierung der Nährstoffeinträge und in Folge zur Reduzierung der Eutrophierung führt.

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? **Yes**

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 type="checkbox"/> Habitats Directive	<input type="checkbox"/> Bucharest Convention
<input type="checkbox"/> Birds Directive	<input type="checkbox"/> Helsinki Convention
<input checked="" type="checkbox"/> Nitrates Directive	<input checked="" type="checkbox"/> OSPAR Convention
<input checked="" 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):

D7 Hydrographical changes

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

,

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.

No

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_049	Water column - physical characteristics
ANSDE_Sub_048	Water column - hydrological characteristics

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_009

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

Der Deskriptor D7 bezieht sich auf neue Entwicklungen wie Offshore Windparks oder künstliche Inseln und auf permanente Änderungen des hydrographischen, bzw. ozeanographischen Regimes und der Topographie; dies treten primär in den Küstengewässern auf. Hierbei sind auch die klimabedingten Veränderungen zu berücksichtigen. In der Nordsee werden 2 Arten signifikanter Veränderungen erwartet: (1) Durch die hohe natürliche Variabilität mit Zeitskalen >50 Jahre und langfristige klimabedingte Veränderungen und (2) durch die oben genannten menschlichen Eingriffe. Die Bewertung der natürlichen Veränderungen erfordert belastbare Referenzzeitreihen von mindestens 30 Jahren Dauer, für die Auswirkungen menschlicher Eingriffe können detaillierte Modellstudien und die Erkenntnisse und Daten der Umweltverträglichkeitsstudien genutzt werden. Das aktive Monitoring beinhaltet die hydrographischen Basisparameter Temperatur und Salzgehalt (raum-zeitliche Verteilung, vertikale Profile, Jahresgang etc.) und die Meeresoberflächentemperatur. Weiterhin werden Strömungen, Süßwassereinträge durch Flüsse, Höhe des Meeresspiegels, Topographie/Bathymetrie, Flächen unterschiedlicher Substrate sowie physische Beeinträchtigungen vorherrschender und spezieller Habitate als assoziierte Faktoren bei den Untersuchungen berücksichtigt. Einige Parameter, die nicht direkt zu D7 gehören, wie Trübung, Secchi-Tiefe oder Auftrieb, werden ebenfalls als Begleitparameter mitgemessen. Weitere Details sind dem Kapitel "5.2 Hydrographical monitoring (Descriptor 7)", Seite 55-57 in: Zampoukas, N. et al., 2014: Technical guidance on monitoring for the Marine Strategy Framework Directive, EUR – Scientific and Technical Research Series, 166pp. doi:10.2788/70344 zu entnehmen.

5a: Relevant GES criteria

Which GES criteria are addressed by the programme?

Select all relevant from list: GES criteria

- 1.4: Habitat distribution**
- 1.5: Habitat extent**
- 6.1: Physical damage, having regard to substrate characteristics**
- 7.1: Spatial characterisation of permanent alterations**
- 7.2: Impact of permanent hydrographical changes**

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"/> 1.5.1: Habitat area | <input checked="" type="checkbox"/> 7.1.1: Extent of area affected by permanent alterations |
| <input checked="" type="checkbox"/> 1.5.2: Habitat volume | <input checked="" type="checkbox"/> 7.2.1: Spatial extent of habitats affected by the permanent alteration |
| <input checked="" type="checkbox"/> 1.6.3: Physical | <input checked="" type="checkbox"/> 7.2.2: Changes in habitats |
| <input checked="" type="checkbox"/> 6.1.2: Extent of the seabed significantly affected by human activities for the different substrate types | |

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 - all**
- Water column habitats - all**

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):

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)

- Physical/chemical features: Topography/bathymetry**
- Physical/chemical features: Sea temperature (surface)**
- Physical/chemical features: Sea temperature (bottom)**
- Physical/chemical features: Ice cover**
- Physical/chemical features: Salinity**
- Physical/chemical features: Current velocity**
- Physical/chemical features: Wave exposure**
- Physical/chemical features: Upwelling**
- Physical/chemical features: Mixing characteristics**
- Physical/chemical features: Turbidity**
- Physical/chemical features: Transparency**

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 loss**
- Pressure: Physical damage**
- Pressure: Changes in thermal regime**
- Pressure: Changes in salinity regime**

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? **Yes**

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

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

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

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

In der Nordsee herrscht eine hohe natürliche Variabilität der hydrographischen und hydrologischen Bedingungen. Die räumlichen Schwankungen reichen von lokalen Events bis hin zu überregionalen Phänomenen, die zeitlich innerhalb von weniger als einem Tag bis hin zu mehreren Jahren auftreten können. Die Auswirkungen menschlichen Tätigkeit sind jedoch nur in Hinblick auf kleinskalige Effekte, für die der Deskriptor D7 jedoch nicht konzipiert wurde, von Bedeutung.

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

Im Zuge der Umsetzung der MSRL ist der Ausbau der Beobachtungsmethoden, insbesondere der Fernerkundung (Sentinel 3, Copernicus-Dienste) geplant. Passend zu diesen neuen Methoden sollen entsprechende Bewertungsverfahren entwickelt werden. Die hierfür notwendigen Ressourcen wurden für die zukünftigen Haushaltsplanungen angemeldet.

6a: Relevant targets (from Art. 10)

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

- UZN3**
- UZN4**
- UZN7**

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

- UZN3_IND_3.1.1**

- UZN3_IND_3.1.2
- UZN3_IND_3.1.3
- UZN3_IND_3.1.4
- UZN3_IND_3.3.1
- UZN3_IND_3.4.1
- UZN3_IND_3.4.2
- UZN4_IND_4.3.1
- UZN4_IND_4.5.1
- UZN4_IND_4.6.1
- UZN4_IND_4.6.2
- UZN7_IND_7.1.1
- UZN7_IND_7.1.2
- UZN7_IND_7.1.3
- UZN7_IND_7.1.4
- UZN7_IND_7.1.5
- UZN7_IND_7.2.1
- UZN7_IND_7.2.2
- UZN7_IND_7.2.3
- UZN7_IND_7.3.1

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

,

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? **Yes**

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

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

6c: Target updating

Will the data and information collected enable the regular updating of targets: Yes or no? **Yes**

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 Daten, die aus den neuen Beobachtungsmethoden erwartet werden, erweitern fortlaufend den umfassenden Referenzdatenbestand und tragen somit zu einem zunehmend Verständnis der natürlichen Bedingungen und anthropogenen Veränderungen bei.

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. Durch die fortlaufende Erweiterung der Datenbasis wird gleichzeitig das Prozessverständnis gefördert, das erforderlich ist um den Umweltzustand zu bewerten und hinsichtlich der Notwendigkeit von Maßnahmen zur Erreichung der genannten Ziele zu beurteilen. Hierzu gehört die Optimierung von Beobachtungsmethoden (s. Q5h), die Fortführung der flächendeckenden Habitatkartierung und die Entwicklung geeigneter Bewertungsverfahren.

7a: Link to relevant activities

Which activities will the programme address?

- Extraction of non-living resources: Marine mining (sand and gravel)**
- Extraction of non-living resources: Dredging**
- Man-made structures (incl. construction phase): Placement and operation of offshore structures (other than for energy production)**

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

Die Auswirkungen menschlicher Aktivitäten auf die hydrographischen Bedingungen können weitestgehend durch die genannten Subprogramme (Hydrographische Survey's, bathymetrische Vermessungen und Habitatkartierungen) sowie durch vorhabenbezogene Untersuchungen (UVPs zu Sand- und Kiesentnahmen, zu Offshore Bauaktivitäten, etc.) beurteilt werden.

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?

Established methods for assessment: Yes or no?

Adequate understanding of GES: Yes or no?

Adequate capacity to perform assessments: Yes or no?

Addresses activities/pressures: Yes or no?

Addresses effectiveness of measures: Yes or 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"/> Urban Waste Water Treatment Directive |
| <input type="checkbox"/> Common Fisheries Policy - Data Collection Framework | <input checked="" type="checkbox"/> Water Framework Directive |
| <input checked="" type="checkbox"/> Habitats Directive | <input type="checkbox"/> Barcelona Convention UNEP/MAP |
| <input type="checkbox"/> Birds Directive | <input type="checkbox"/> Bucharest Convention |
| <input type="checkbox"/> Nitrates Directive | <input type="checkbox"/> Helsinki Convention |
| | <input checked="" type="checkbox"/> OSPAR Convention |

Trilateral Wadden Sea Cooperation **Other (specify)**

Description of Other (if selected):

D8 Contaminants

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_010	Contaminant inputs - from atmosphere
ANSDE_Sub_015	Contaminant inputs - land-based sources
ANSDE_Sub_130	Contaminant levels - in water/sediment
ANSDE_Sub_013	Contaminant levels - in species, including seafood
ANSDE_Sub_013	Contaminant levels - in water/sediment
ANSDE_Sub_114	Mobile species - health status

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_010

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 für Deskriptor 8 umfasst: (a) Reguläre Messung von Schadstoffkonzentrationen in Biota, Sediment und Wasser sowie die Erfassung ausgewählter Bioeffekte an Messstellen in den Küstengewässern sowie den marinen off-shore Gebieten innerhalb der territorialen Gewässer und der AWZ zur Bestimmung des Status und von Trends (siehe Details in den Messprogrammen); diese Untersuchungen werden unter Berücksichtigung der Anforderungen der Monitoringprogramme der regionalen Meeresschutz-Konventionen (OSPAR-CEMP, TMAP) sowie denen der EU-Wasserrahmenrichtlinie (WRRL) durchgeführt. (b) Flüsse: Erfassung des Oberflächenabflusses, der Schadstoffkonzentrationen in Wasser und Schwebstoff zur Kalkulation von Frachtberechnungen von Einträgen ins Meer. Diese Untersuchungen werden unter Berücksichtigung der Anforderungen der Monitoringprogramme der regionalen Meeresschutz-Konventionen (OSPAR-RID) durchgeführt. (c) Berechnung der atmosphärischen Inputs von ausgewählten emittierten Schadstoffen zur Frachtberechnung durch Depositionsmodellierung anhand von Eingangsdaten (Messwerte). Diese Untersuchungen werden unter Berücksichtigung der Anforderungen der Monitoringprogramme der regionalen Meeresschutz-Konventionen (OSPAR-CAMP, EMEP) durchgeführt. (d) Identifizierung von möglicherweise für die marine Umwelt gefährlichen Substanzen sowie der Bedeutung von „emerging compounds“ für die Meeresumwelt durch die Überprüfung von Produktionsdaten, Substanzcharakteristika sowie durch die Durchführung von chemischen „target“- und „non-target“-Analysen und Untersuchungen zu biologischen Effekten mit dem Ziel, negative Entwicklungen aufzuzeigen. Die Ausführung erfolgt hauptsächlich in Forschungsprojekten und zusätzlich zum regulären Monitoring.

5a: Relevant GES criteria

Which GES criteria are addressed by the programme?

Select all relevant from list: GES criteria

8.1: Concentration of contaminants

8.2: Effects of contaminants

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

 8.1.1: Concentration of the contaminants mentioned above **8.2.1: Levels of pollution effects on the ecosystem components concerned** **8.2.2: Occurrence**

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)

Description of Other (if selected):

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: Contamination by hazardous substances (Other) **Pressure: Introduction of synthetic compounds** **Pressure: Introduction of non-synthetic substances and compounds** **Pressure: Introduction of radio-nuclides** **Pressure: Acute pollution events**

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? **Yes**Established methods for assessment: Yes or no? **Yes**Adequate understanding of GES: Yes or no? **No**Adequate capacity to perform assessments: Yes or no? **No****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

(a) Erforderliche Schritte zur Weiterentwicklung von Bewertungsverfahren und deren Durchführung für Deskriptor D8 werden zur Zeit in den zuständigen Gremien der regionalen Meeresschutzkonventionen, unterstützt durch die Expertengruppen des ICES für Schadstoffe und Bioeffekte, unternommen. Nationale Anforderungen an gebietsangepasste Zielwerte werden dabei berücksichtigt. (b) Die Bereitstellung von Informationen für die Bewertung von D8 ist innerhalb des nationalen Meeresmonitorings durch eine koordinierte Überwachung der Meeresumwelt auf Landes- und Bundesebene gewährleistet (siehe Messprogramme). Eine Gruppe von Fachexperten innerhalb der nationalen Überwachungsstrukturen fungiert als Bindeglied zwischen den am Monitoring beteiligten Institutionen, während eine Gruppe von Datenmanagementexperten und die nationale Datenbank (MUDAB) die Übertragung von Daten an die internationale ICES-Datenbank (DOIME) gewährleisten. (c) Das genutzte Bewertungsinstrument (CEMP Monitoring Manual, http://www.ospar.org/content/content.asp?menu=00200304000135_000000_000000) berechnet die Trendentwicklung unter Berücksichtigung der Unsicherheit und bestimmt für das letzte Jahr den Abstand zum Grenzwert als aktuellen Status. Darüber hinaus werden die Ergebnisse mithilfe einer web-Anwendung je Messstationen als Mittelwerte graphisch in Kartenform dargestellt. (d) Die Möglichkeit natürliche Variabilität und klimatische Einflüsse von den Folgen von anthropogenen Belastungen zu trennen ist abhängig vom untersuchten Parameter und der verfügbaren Datengrundlage (inklusive historischer Daten und Langzeitbeobachtungen, der Möglichkeit zum Vergleich mit gering oder nicht belasteten geografischen Regionen, dem Vorliegen von Hintergrundkonzentrationen sowie Forschungsergebnissen und verfügbaren Modellen). Die Unsicherheit von Analysenwerten, an welcher die reine analytische Messunsicherheit lediglich einen geringen Anteil hat, bildet hauptsächlich die natürliche Schwankung von Untersuchungsdaten dar (inklusive kurzzeitiger Klimavariabilitäten). Langfristige Klimaveränderungen, die physico-chemische Prozesse beeinflussen, können möglicherweise Auswirkungen auf Langzeittrends haben. Dies sowie auch die bestehenden Wissenslücken hinsichtlich solcher Entwicklungen sind sowohl in den entsprechenden Leitfäden (z.B. hinsichtlich Beprobungszeiträumen) wie auch in den Bewertungsmethoden der regionalen Meeresschutzkonventionen berücksichtigt. (e) Bei Gefahr, den GES nicht zu erreichen, besteht grundsätzlich die Möglichkeit zur Erhöhung der Überwachungsdichte innerhalb des bestehenden Programms. Messparameter, -netz, -frequenz und -dauer sind in Bezug auf die jeweilige Fragestellung im Einzelfall festzulegen.

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

Entwicklung bzw. Weiterentwicklung von Methoden zur Ableitung und Bestimmung von wissenschaftlich belastbaren, realistischen Grenzwertbestimmungen und Grenzwerten für GES. Dies muss in Kooperation mit den regionalen Meeresschutzkonventionen erfolgen und koordiniert werden durch die entsprechenden regionalen Arbeitsgruppen sowie die Arbeitsgruppen auf EU-Ebene.

6a: Relevant targets (from Art. 10)

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

UZN2

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

- UZN2_IND_2.1.1
- UZN2_IND_2.2.1
- UZN2_IND_2.2.2
- UZN2_IND_2.3.1
- UZN2_IND_2.4.1
- UZN2_IND_2.4.2
- UZN2_IND_2.4.3
- UZN2_IND_2.5.1
- UZN2_IND_2.5.2

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? **Yes**

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

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

6c: Target updating

Will the data and information collected enable the regular updating of targets: Yes or no? **Yes**

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 Bewertung der Zielerreichung erfolgt anhand der unten genannten Zieleindikatoren (Anfangsbewertung): UZO2_IND_2.1.1 Schadstoffkonzentrationen am Übergabepunkt limnisch-marin der in die Nordsee mündenden Flüsse. (in Wasser, Schwebstoff) UZO2_IND_2.2.1 emittierte Schadstoffmengen (Atmosphäre) UZO2_IND_2.2.2 Schadstoffdeposition auf die Meeresoberfläche (aus der Atmosphäre) UZO2_IND_2.3.1 Menge der Einträge (gasförmig, flüssig, fest; aus Quellen im Meer) UZO2_IND_2.4.1 Art und Menge der Einträge (von Öl und Ölerzeugnissen) UZO2_IND_2.4.2 Größe der verschmutzten Meeresoberfläche und Anzahl (von Verschmutzungen durch Öl und Ölerzeugnisse) UZO2_IND_2.4.3 Verölungsrate bei Vögeln UZO2_IND_2.5.1 Konzentrationen von Schadstoffen in Wasser, Organismen und Sedimenten UZO2_IND_2.5.2 biologische Schadstoffeffekte

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. Auf nationaler Ebene sind keine ausreichenden Kapazitäten vorhanden, aber sowohl Kapazitäten wie Methoden finden sich in den Arbeitsstrukturen der regionalen Meeresschutzkonventionen. Allerdings muss der Datenfluss zwischen Vertragsstaaten und den regionalen Meeresschutzkonventionen verbessert werden. Zu diesem Zweck sind die nationalen Mechanismen zur Datenzusammenführung und -übertragung in Überarbeitung.

7a: Link to relevant activities

Which activities will the programme address?

- Energy production: Marine-based renewable energy generation (wind)
- Energy production: Marine hydrocarbon (oil and gas) extraction
- Research and survey: Marine research
- Transport: Shipping
- Waste disposal: Solid waste disposal incl. dredge material
- Land-based activities/industries: Coastal, riverine and atmospheric inputs from land - industrial discharges
- Land-based activities/industries: Coastal, riverine and atmospheric inputs from land - agricultural run-off, forestry and emissions
- Land-based activities/industries: Coastal, riverine and atmospheric inputs from land - municipal waste water discharge

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 Programm berücksichtigt die Ausdehnung und Intensität der genannten Aktivitäten durch eine adäquate räumliche und zeitliche Überwachungsdichte, wobei Messparameter, -netz, -frequenz und -dauer dynamisch auf Trendentwicklungen einzelner Aktivitäten reagieren können.

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. Wo es möglich ist, werden die Monitoringergebnisse zu Schadstoffkonzentrationen und biologischen Effekten bzw. die Frachtberechnung und Modellierung zur Trendbewertung für die Erfolgskontrolle von Maßnahmen genutzt (z.B. dient das Monitoring von TBT und Imposex als Kontrolle der Nutzungsbeendigung von TBT bei Schiffen und off-shore Anlagen).

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? **No**

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 checked="" type="checkbox"/> Water Framework Directive |
| <input type="checkbox"/> Common Fisheries Policy - Data Collection Framework | <input type="checkbox"/> Barcelona Convention UNEP/MAP |
| <input 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):

D9 Contaminants in seafood

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

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

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)

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

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

5a: Relevant GES criteria

Which GES criteria are addressed by the programme?

Select all relevant from list: GES criteria

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

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)

Description of Other (if selected):

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?

Established methods for assessment: Yes or no?

Adequate understanding of GES: Yes or no?

Adequate capacity to perform assessments: Yes or no?

5e: Natural variability

How does the programme address natural variability?

In a quantitative process

Expert opinion

In a qualitative process

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

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

6a: Relevant targets (from Art. 10)

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

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

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

,

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?

Established methods for assessment: Yes or no?

Adequate capacity to perform assessments: Yes or no?

6c: Target updating

Will the data and information collected enable the regular updating of targets: 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

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

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

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

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?

Established methods for assessment: Yes or no?

Adequate understanding of GES: Yes or no?

Adequate capacity to perform assessments: Yes or no?

Addresses activities/pressures: Yes or no?

Addresses effectiveness of measures: Yes or 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 type="checkbox"/> Common Fisheries Policy - Data Collection Framework | <input type="checkbox"/> Barcelona Convention UNEP/MAP |
| <input 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 type="checkbox"/> OSPAR Convention |
| <input type="checkbox"/> Urban Waste Water Treatment Directive | <input type="checkbox"/> Trilateral Wadden Sea Cooperation |
| | <input type="checkbox"/> Other (specify) |

Description of Other (if selected):

D10 Litter

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

,

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_020	Litter - characteristics and abundance/volume

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_012

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

Die Abschätzung der Mengen und Eigenschaften von Abfällen, die an der Küste angeschwemmt und von Nutzern der Strände dort hinterlassen werden (Strandmüllerefassungen) sowie Abfälle, die während der Nahrungsaufnahme von Eissturmvögeln an der Wasseroberfläche mit aufgenommen werden (EcoQO Abfallteile in Eissturmvogelmägen), erlaubt eine Beschreibung der gegenwärtigen Belastung und somit eine Abschätzung des gegenwärtigen Gefährdungspotentials von Abfällen in der Meeresumwelt. Die Bestimmung der Eigenschaften der registrierten Abfälle umfasst das Material, aus dem die Abfallteile hergestellt sind (Plastik, Holz, Metall usw.), sowie die Art ihrer Nutzung (Verpackung, Fischereinetz usw.). Die Registrierung der Eigenschaften, vor allem an der Küste, erlaubt Aussagen über die Quellen und vereinzelt auch der Eintragspfade der Abfallteile, z.B. welche Aktivitäten für den Eintrag von Abfällen verantwortlich sind. Die Analyse von zeitlichen Trends in den Mengen der Abfälle erlaubt eine Abschätzung über die Effektivität von Maßnahmen, die eingeführt wurden, um die Verschmutzung der Meere mit Abfällen zu reduzieren. Bei den Strandmüllerefassungen wird ein großes Spektrum an Abfalltypen erfasst, somit werden neue Funde und ggf. neue Quellen der Verschmutzung schnell erkannt. Die Abfälle, die an der Küste registriert werden, liefern Information über Mengen und Trends von (Meso-5mm – 2,5 cm) und Makroabfällen (>2,5cm) in den Gewässern vor der Küste. Die Abfälle, die in den Eissturmvogelmägen registriert werden, liefern Information über Trends in den Mengen von Abfällen im, mit dem bloßen Auge sichtbaren, Mikrobereich (zwischen 1-5mm) und im Mesomüllbereich (0,5-2,5cm), die an der Wasseroberfläche der küstennahen Gewässer treiben.

5a: Relevant GES criteria

Which GES criteria are addressed by the programme?

Select all relevant from list: GES criteria

- 10.1: Characteristics of litter in the marine and coastal environment**
- 10.2: Impacts of litter on marine life**
- GES Other**

Description of Other (if selected):

Mengen und Trends von Abfällen in der Meeresumwelt (Amount and trends of litter in the marine environment)

5b: Relevant GES characteristics [indicators]

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

Select all relevant from list: GES Indicators

- 10.1.1: Trends in the amount of litter washed ashore and/or deposited on coastlines**
- 10.2.1: Trends in the amount and composition of litter ingested by marine animals (e.g. Stomach analysis)**
- 10.1.2: Trends in the amount of litter in the water column (including floating at the surface) and deposited on the sea-floor**

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)

- Water column habitats - all**
- Other**

Description of Other (if selected):

Strand (beach), Water surface habitats: Marine water: coastal, Water surface habitats: Marine water: shelf

Habitat Specials

Relevant features, pressures and impacts from MSFD Annex III

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

- Functional group: Offshore surface-feeding birds**
- Functional group: Offshore pelagic-feeding birds**

Description of Other (if selected):

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: Marine litter**

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? **Yes**

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 Expert opinion
 In a qualitative process 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 Abfälle, die an der Küste registriert werden, liefern Information über Mengen und Trends von Meso-(5mm-2,5 cm) und Makroabfällen (>2,5cm) in den Gewässern vor der Küste. Die Abfälle, die in den Eissturmvogelmägen registriert werden, liefern Information über Trends in den Mengen von Abfällen im, mit dem bloßen Auge sichtbaren, Mikrobereich (unter 5mm) und im Mesomüllbereich (0,5-2,5cm), die an der Wasseroberfläche und oberen Wassersäule der küstennahen Gewässer treiben. Nur ein Teil der Meeresumwelt wird von den beiden laufenden Monitoringprogrammen erfasst. Informationen über die räumliche Verbreitung, Mengen und Eigenschaften von Abfällen in der unteren Wassersäule und am Meeresboden liefern sie nicht. Mit Ausnahme der genannten Größenfraktion beim EcoQO Eissturmvogel, werden die Verbreitung, Mengen und Eigenschaften von Mikropartikeln (Bereich unter 5mm) nicht erfasst. Die Mengen und Eigenschaften von Abfällen in anderen Biota (als dem Eissturmvogel) ebenso wie die Auswirkung von Abfällen auf Flora und Fauna (z.B. durch Ingestion und Verstrickung) werden nicht erfasst. Somit sind eine vollumfängliche Abschätzung der Gesamtmengen der Abfälle und eine Bewertung der Auswirkungen von Abfällen auf die Meeresumwelt zurzeit noch nicht möglich. Natürliche Variabilität gibt es bei Abfällen nicht. Die vorherrschenden Strömungen und Winde, die durch das Klima beeinflusst werden (z.B. Nordatlantische Oszillation) beeinflussen die an der Küste angeschwemmten Abfälle. Die Anzahl der tot aufgefundenen Eissturmvögel variiert aufgrund der Bestandsgröße und des Bestandszustand.

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

Laufende und geplante F&E-Vorhaben prüfen die Möglichkeit fehlende Aspekte abzudecken und entwickeln ggf. die notwendigen Monitoringprogramme: Erfassung von Mesoabfällen (0,5-2,5cm) in Sedimenten an der Küste, Erfassung von Mikroabfällen im Sediment, der Wassersäule und Invertebraten(<5mm), Erfassung von Abfällen in Mägen und den Faeces von Meerestieren (zusätzlich zum Eissturmvogel, z.B. Fische oder marine Säuger), Prüfung und Optimierung der Methodik der Strandmüllfassungen, Erfassung von Abfällen in Kolonien von brütenden Seevögeln, Erfassung von Mortalität durch Verstrickung in Abfälle,

6a: Relevant targets (from Art. 10)

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

- UZN5

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

- UZN5_IND_5.1.1
 UZN5_IND_5.1.2
 UZN5_IND_5.2.1

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

,

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? **Yes**

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

6c: Target updating

Will the data and information collected enable the regular updating of targets: Yes or no? **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

Das Programm wird zur Erfassung des erreichten Fortschritts für die Ziele 5.1.1 und 5.2.1 beitragen, indem es Informationen sowohl über Trends in den Mengen und der Zusammensetzung der Abfälle an der Küste als auch über Trends in den Mengen und der Zusammensetzung von Abfällen in Eissturmvogelmägen generiert. Beide Parameter liefern insbesondere Informationen über die Belastung der küstennahen Gewässer mit Abfällen.

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

Laufende und geplante F&E-Vorhaben prüfen die Möglichkeit fehlende Aspekte abzudecken und entwickeln ggf. die notwendigen Monitoringprogramme: Erfassung von Mesoabfällen (0,5-2,5cm) in Sedimenten an der Küste, Erfassung von Mikroabfällen im Sediment, der Wassersäule und Invertebraten (<5mm), Erfassung von Abfällen in Mägen und den Faeces von Meerestieren (zusätzlich zum Eissturmvogel, z.B. Fische oder marine Säuger), Prüfung und Optimierung der Methodik der Strandmüllerfassungen, Erfassung von Abfällen in Kolonien von brütenden Seevögeln, Erfassung von Mortalität durch Verstrickung in Abfälle.

7a: Link to relevant activities

Which activities will the programme address?

- Extraction of living resources: Fisheries incl. recreational fishing (fish and shellfish)
- Food production: Aquaculture (fin-fish and shellfish)
- Man-made structures (incl. construction phase): Port operations
- Man-made structures (incl. construction phase): Placement and operation of offshore structures (other than for energy production)
- Recreation: Tourism and recreation incl. yachting
- Transport: Shipping
- Waste disposal: Solid waste disposal incl. dredge material
- Land-based activities/industries: Coastal, riverine and atmospheric inputs from land - industrial discharges
- Land-based activities/industries: Coastal, riverine and atmospheric inputs from land - agricultural runoff, forestry and emissions
- Activities Uses All

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

Die Hauptquellen der Abfälle in der Nordsee sind Fischereiaktivitäten, die Schifffahrt und Freizeit- und Tourismusaktivitäten an der Küste. Weitere Quellen sind Flusseinträge. Zusätzlich sind Flusseinträge sowie Einträge über Meeresströmungen relevant. Alle Quellen sind entlang der gesamten Küste ganzjährig ganzjährig wirksam. Freizeitaktivitäten sind jedoch in den Sommermonaten intensiver als in den anderen

Jahreszeiten. Strandmüllerfassungen werden im Sommer, Herbst, Winter und Frühling durchgeführt, um die jahreszeitlichen Unterschiede in der Belastung zu erfassen. Die Erfassung der Eissturmvogelmägen ist geschieht ganzjährlichganzjährig. Die Meisten meisten Totfunde werden jedoch in den Wintermonaten gefunden. Vorwiegend werden die Winterbestände der Eissturmvogel und somit die Belastung der Meeresoberfläche mit Abfällen im Winter erfasst. Die Erfassung der angeschwemmten Abfälle an der Küste sowie die Erfassung der Abfälle in Eissturmvogelmägen decken die Hauptbelastungen durch meerbasierten Aktivitäten adäquat ab. Die Zusammensetzung der Abfälle, die an der Küste angeschwemmt und erfasst werden, erlaubt erlauben eine Identifikation der Quellen und dient dienen somit die Erkennung von geeigneten Maßnahmen.

7c: Relevant measures

Which existing measures will the programme address?

Measures of OSPAR RAP ML. ,

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 bestehende Monitoring wird dazu beitragen, die Effektivität von land- und seebasierten Maßnahmen, die Inhalt des OSPAR-Aktionsplans gegen Meeresmüll sind, zu überprüfen (<http://ospar.org/>).

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? **Yes**

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**

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

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

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 type="checkbox"/> Common Fisheries Policy - Data Collection Framework | <input type="checkbox"/> Barcelona Convention UNEP/MAP |
| <input 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 type="checkbox"/> Trilateral Wadden Sea Cooperation |
| | <input type="checkbox"/> Other (specify) |

Description of Other (if selected):

D11 Energy, including underwater noise

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

,

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

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_13

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

In Deutschland gibt es für den Deskriptor D 11 noch kein etabliertes Monitoring. Entsprechende Subprogramme befinden sich in der Entwicklung. (siehe Q 5 h)

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**
- 11.1: Distribution in time and place of loud, low and mid frequency impulsive sounds**
- 11.2: Continuous low frequency sound**

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

- 1.2.1: Population abundance and/or biomass** **frequency) measured by observation stations and/or with the use of models as appropriate**
- 11.2.1: Trends in the ambient noise level within the 1/3 octave bands 63 and 125 Hz (centre**

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)

Description of Other (if selected):

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)

- Physical/chemical features: Topography/bathymetry
- Physical/chemical features: Salinity
- Physical/chemical features: Current velocity
- Physical/chemical features: Wave exposure
- Physical/chemical features: pH

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: Underwater noise

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? **No**

5e: Natural variability

How does the programme address natural variability?

- | | |
|--|---|
| <input type="checkbox"/> In a quantitative process | <input type="checkbox"/> Expert opinion |
| <input type="checkbox"/> In a qualitative process | <input checked="" 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 Monitoringprogramme werden die Daten für die Bewertung des Umfangs der Schallbelastung der Küstengewässer unter räumlichen und zeitlichen Aspekten liefern (siehe auch Q 5h).

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

Derzeit erfolgt die Erfassung von Schalldaten auf Projektbasis und im Rahmen der Beweissicherung von Einzelprojekten. Dies ist für mittel- und langfristige Messungen abzusichern, zugleich müssen die Kriterien für die Datenerfassung, Weiterleitung und Speicherung weiterentwickelt und mindestens regional harmonisiert werden. Programme zur Modellierung der Schallbelastung, die erhobene Daten berücksichtigen, sind weiter zu entwickeln. Zur Erfassung der Belastung der Meeresumwelt durch Unterwasserschall sind zwei sich ergänzende Messprogramme vorgesehen. Mit einem Netz von Hydrophonen

zur Messung von Unterwasserschall, welches die territorialen Gewässer und die AWZ abdeckt, soll an geeigneten Referenzstandorten (ausreichende Entfernung zu starken Schallemitentten, Abbildung von Akkumulationsgebieten wie Schifffahrtsstraßen, frei von Fischereiaktivitäten) die Schallbelastung für die biologisch relevanten Frequenzbereiche erfasst werden. In einem Schallregister sollen alle relevanten und abgrenzbaren Schallereignisse erfasst werden. Die erhobenen Daten dienen als Referenz für Modellierungen zur Hintergrundschaallbelastung, die auf der Basis u.a. von geeigneten Schallausbreitungsmodellen, AIS-Daten und akustischen Schiffssignaturen erstellt werden.

6a: Relevant targets (from Art. 10)

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

UZN6

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

UZN6_IND_6.1.3

UZN6_IND_6.1.4

UZN6_IND_6.2.3

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

,

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? **Yes**

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

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

6c: Target updating

Will the data and information collected enable the regular updating of targets: Yes or no? **Yes**

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 Modellierung der Unterwasserschallbelastung wird über entsprechende Dienste die Darstellung der räumlichen und zeitlichen Belastung der Meeresgebiete durch Unterwasserschall zulassen. Die Auswertung nach Entwicklung der Belastung in der Zeit wird hieraus möglich sein. Das gleiche gilt für die im Schallregister zu erfassenden Daten.

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. Die Entwicklung eines adequate Messnetzes als Grundlage für die Modellierung, die Weiterentwicklung von Modellierungstools und die regionale Abstimmung hinsichtlich Datenerhebung, Transport und Speicherung muss erfolgen.

7a: Link to relevant activities

Which activities will the programme address?

Energy production: Marine-based renewable energy generation (wind)

Energy production: Marine hydrocarbon (oil and gas) extraction

Extraction of non-living resources: Marine mining (sand and gravel)

- Extraction of non-living resources: Dredging**
- Man-made structures (incl. construction phase): Submarine cable and pipeline operations**
- Transport: Shipping**

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 soll kontinuierliche und impulsive Schallereignisse sowie Schockwellen aus verschiedenen Quellen umfassen. Ziel ist eine Zuordnung von Schallereignissen zu Quellen und Initiierung von Massnahmen zur Minimierung von Einträgen.

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. Durch das Monitoring von Schalleinträgen wird auch die Wirksamkeit von Minderungsmaßnahmen überprüft werden können.

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? **Yes**

Established methods for assessment: Yes or no?

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

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

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

Description of Other (if selected):

D1, 4 Biodiversity – birds

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

,

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_104	Mobile species - abundance and/or biomass
ANSDE_Sub_110	Mobile species - population characteristics

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_001

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 Vögeln erfasst im wesentlich Abundanz, Verteilung und weitere ausgewählte biologische Parameter von Vogelarten. Das Monitoring überwacht somit hauptsächlich Zustände von Vogelpopulationen und -gemeinschaften. Erfasst und bewertet werden See- und Küstenvögel, insbesondere Zielarten der Meeres- und Küstenschutzgebiete und typische Vogelarten der relevanten Lebensraumtypen nach FFH-RL, darüber hinaus alle weiteren Arten des Anhang I VRL und regelmäßig auftretende Zugvogelarten gemäß Artikel 4.2 VRL sowie durch Konventionen bestimmte Arten im Meeresbereich. Weitere Details unter: <http://fino.bsh.de/blmpweb/kennblatt?id=8&kapitel=0&html=on>

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
- 1.4: Habitat distribution

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
- 1.1.2: Distributional pattern within range
- 1.2.1: Population abundance and/or biomass
- 1.3.1: Population demographic characteristics (e.g. Body size or age class structure)

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 sand
- Seabed habitats: Shallow sublittoral mud
- Seabed habitats: Shallow sublittoral mixed sediment

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: Birds
- Functional group: Intertidal benthic-feeding birds
- Functional group: Inshore surface-feeding birds
- Functional group: Inshore pelagic-feeding birds
- Functional group: Inshore benthic-feeding birds
- Functional group: Inshore herbivorous-feeding birds
- Functional group: Offshore surface-feeding birds
- Functional group: Offshore pelagic-feeding birds
- Birds Directive Wild Bird Species

Description of Other (if selected):

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? **Yes**

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

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

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

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

Im Rahmen des Monitorings werden alle anwesenden Vogelarten erfasst, so dass sowohl für jede einzelne Art Auswertungen (Abundanzen, Phänologien, Trends) als auch für funktionelle Gruppen vorgenommen werden können, so dass Statusänderungen auf Art- und Artengruppenebene, Auswirkungen von (neuen) Belastungen und Maßnahmen aufgezeigt und gegenüber natürlichen Schwankungen abgegrenzt werden können. Damit sind auch Rückschlüsse auf Habitatebene möglich. Derzeit sind Methoden zur Berechnung und Bewertung der Indikatoren noch in nationaler und internationaler Abstimmung, die notwendigen Daten stehen durch die bereits langjährig bestehenden Messprogramme als Zeitreihen zur Verfügung. Es muss jedoch auf nationaler und internationaler Ebene (OSPAR(TWSC)) eine Abstimmung über das Vorgehen zur Bewertung erreicht 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

Zur Entwicklung von Bewertungsprozeduren ist ein Gemeinschaftsprojekt initiiert worden, das unter Federführung von OSPAR ein gemeinsames Tool für die TWSC, OSPAR Region II und MSRL (Nordsee) erstellt. Weitere Methoden zur Berechnung und Bewertung der Indikatoren sind derzeit noch in nationaler und internationaler Abstimmung. Nationale Vorhaben mit MSRL-Bezug insbesondere zu Bewertungsfragen sind gestartet.

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_3.1.1
 UZN3_IND_3.1.2
 UZN3_IND_3.2.3

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

,

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? **Yes**

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

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

6c: Target updating

Will the data and information collected enable the regular updating of targets: Yes or no? **Yes**

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

Durch die Erfassung der Vogelarten und die spezifische Zuordnung in funktionelle Gruppen wird das Monitoringprogramm eine Bewertung der Vogelmenschen erlauben und damit zur Bewertung von Habitaten beitragen, was die Beurteilung der Erreichung der entsprechenden deutschen Umweltzielen ermöglicht.

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 setzen eine genaue Vorstellung von Zielzuständen voraus, die bisher noch nicht genauer spezifiziert sind. Eine nationale Abstimmung dieser Lücken wird durch die Fortschritte in den internationalen Konventionen (TWSC/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

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? **Yes**

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 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 checked="" 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 checked="" type="checkbox"/> Other (specify) |

Description of Other (if selected):

CBD, CMS, RAMSAR

D1, 4 Biodiversity – mammals and reptiles

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

,

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_025	Mobile species - abundance and/or biomass
ANSDE_Sub_029	Mobile species - population characteristics
ANSDE_Sub_026	Mobile species - health status

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_002

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 Säugern erfasst im Wesentlichen Abundanz, Verteilung und weitere ausgewählte biologische Parameter der drei regelmäßig im Hoheitsgebiet vorkommenden Säugerarten (Seehund, Kegelrobbe, Schweinswal). Das Monitoring überwacht somit hauptsächlich Zustände ihrer Populationen und Habitatansprüche. Erfasst und bewertet werden die Arten auch unter der FFH-RL sowie durch Konventionen im Meeresbereich der Nordsee. Weitere Details unter: <http://fino.bsh.de/blmpweb/kennblatt?id=9&kapitel=0&html=on>

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**
- 1.4: Habitat distribution**

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**
- 1.1.2: Distributional pattern within range**
- 1.2.1: Population abundance and/or biomass**
- 1.3.1: Population demographic characteristics (e.g. Body size or age class structure)**
- 1.4.2: Distributional pattern**

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 sediment**
- Water column habitats: Marine water: coastal**
- Water column habitats: Marine water: shelf**
- Habitats Directive Annex I marine habitats**

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: Mammals**
- Functional group: Toothed whales**
- Functional group: Baleen whales**
- Functional group: Seals**
- Habitats Directive Annex II, IV and V species**

Description of Other (if selected):

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: Biological disturbance (Other)**

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? **Yes**

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

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

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

5e: Natural variability

How does the programme address natural variability?

- In a quantitative process** **Expert opinion**
 In a qualitative process **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

Im Rahmen des Monitorings werden alle drei Säugerarten erfasst, so dass Auswertungen (Abundanzen, Phänologien, Trends), Statusänderungen und Auswirkungen von (neuen) Belastungen und Maßnahmen aufgezeigt und gegenüber natürlichen Schwankungen abgegrenzt werden können. Damit sind auch Rückschlüsse auf Habitatabene möglich.

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

Derzeit sind Methoden zur Berechnung und Bewertung der Indikatoren noch in nationaler und internationaler Abstimmung, die notwendigen Daten stehen durch die bereits langjährig bestehenden Messprogramme als Zeitreihen zur Verfügung. Es muss jedoch auf nationaler und internationaler Ebene (FFH/OSPAR/TWSC) eine Abstimmung über das Vorgehen zur Bewertung erreicht 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_3.1.1**
 UZN3_IND_3.1.2
 UZN3_IND_3.2.3

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

,

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? **Yes**

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

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

6c: Target updating

Will the data and information collected enable the regular updating of targets: Yes or no? **Yes**

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

Durch die Erfassung der Säugerarten in ihren Jahreslebensräumen wird das Monitoringprogramm eine Bewertung auf Artebene erlauben und damit zur Bewertung von Habitaten beitragen, was die Beurteilung der Erreichung der entsprechenden deutschen Umweltziele ermöglicht.

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 setzen eine genaue Vorstellung von Zielzuständen voraus, die bisher noch nicht genauer spezifiziert sind. Eine nationale Abstimmung dieser Lücken wird durch die Fortschritte in den internationalen Konventionen (TWSC/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

<http://fino.bsh.de/blmpweb/kennblatt?id=9&kapitel=0&html=on>

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? **No**

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

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 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 checked="" type="checkbox"/> Other (specify) |

Description of Other (if selected):

CMS (trilaterales Seehundabkommen, ASCOBANS)

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

,

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**
 Expert opinion
 In a qualitative process
 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

Will the data and information collected enable the regular updating of targets: Yes or no? **Yes**

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 setzen 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?

,

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):

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

,

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

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

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?

In a quantitative process

Expert opinion

In a qualitative process

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)

,

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

Will the data and information collected enable the regular updating of targets: Yes or no? **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):

D1, 4 Biodiversity – water column 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

,

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_037.xml	Pelagic habitats - community characteristics
ANSDE_Sub_042.xml	Plankton blooms (biomass, frequency)

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_004

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 pelagischen Habitate umfasst die Planktongemeinschaften (Zoo- und Phytoplankton) einschließlich der Artenzusammensetzung, Abundanz und Biomasse. Die Belastungen werden im Rahmen des Eutrophierungsmonitorings erhoben. Über die OSPAR Common Procedure werden unterschiedliche Belastungssituationen identifiziert, so dass das Monitoring entsprechend differenziert erfolgen kann.

5a: Relevant GES criteria

Which GES criteria are addressed by the programme?

Select all relevant from list: GES criteria

- 1.2: Population size
- 1.6: Habitat condition
- 4.3: Abundance/distribution of key trophic groups/species
- 5.2: Direct effects of nutrient enrichment

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

- 1.2.1: Population abundance and/or biomass
- 1.6.2: Relative abundance and/or biomass
- 4.3.1: Abundance trends of functionally important selected groups/species
- 5.2.4: Species shift in floristic composition such as diatom to flagellate ratio

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)

- Water column habitats - all

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)

- Other

Description of Other (if selected):

Phyto- und Zooplanktonarten

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)

- Physical/chemical features: Sea temperature (surface)**
- Physical/chemical features: Salinity**
- Physical/chemical features: Transparency**
- Physical/chemical features: Nutrient levels**
- Physical/chemical features: Oxygen levels**
- Physical/chemical features: pH**

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: Nutrient and organic matter enrichment (Other)**
- Pressure: Inputs of organic matter**
- Pressure: Introduction of non-indigenous species and translocations**

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? **Yes**

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

Das Monitoring der pelagischen Habitate liefert Daten über Artenzusammensetzung, Abundanz, Gesamtbiomasse sowie Biomasse funktioneller Gruppen der vorherrschenden Phyto- und Zooplanktongemeinschaften. Im Kombination mit den ebenfalls erhobenen Daten zu möglichen Belastungen werden darüber Teilaspekte des Deskriptors Biodiversität sowie Nahrungsnetze abgedeckt.

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

Seit 2012 fehlt das biologische Monitoring in der AWZ, so dass seitdem eine Lücke bzgl. der Phyto- und Zooplanktondaten besteht. In den Küstengewässer wird das Phytoplanktonmonitoring seit vielen Jahren durchgeführt. Zooplanktonindikatoren befinden sich momentan in Entwicklung. Das Zooplanktonmonitoring wird in den Küstengewässern zukünftig parallel zur Indikatorenentwicklung an diese angepasst ausgebaut.

6a: Relevant targets (from Art. 10)

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

- UZN1**
 UZN3

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

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

,

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

Will the data and information collected enable the regular updating of targets: Yes or no? **Yes**

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

Der Zustand der pelagischen Habitate ist im Wesentlichen durch Eutrophierung beeinträchtigt. Insofern wird davon ausgegangen, dass durch das Erreichen des Umweltziels 1 (Meere ohne Beeinträchtigung durch anthropogene Eutrophierung) auch der gute Umweltzustand für pelagische Habitate erreicht werden kann. Darüber hinaus gibt es das Umweltziel 3 "Meere ohne Beeinträchtigung der marinen Arten und Lebensräume durch die Auswirkungen menschlicher Aktivitäten". Dieses Umweltziel muss für die Anwendung auf pelagische Habitate weiter konkretisiert werden.

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. Siehe auch Monitoringprogramm "Eutrophierung"

7a: Link to relevant activities

Which activities will the programme address?

- Land-based activities/industries: Coastal, riverine and atmospheric inputs from land - industrial discharges**
 Land-based activities/industries: Coastal, riverine and atmospheric inputs from land - agricultural runoff, forestry and emissions
 Land-based activities/industries: Coastal, riverine and atmospheric inputs from land - municipal waste water discharge

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

Siehe Monitoringprogramm "Eutrophierung"

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. Zu jeder Maßnahme sind entsprechende Indikatoren vorgesehen, die den Erfolg der Maßnahme anzeigen. Mit dem Monitoring zu Deskriptor 5 "Eutrophierung" soll überprüft werden, ob das Maßnahmenbündel zur Reduzierung der Nährstoffeinträge und in Folge zur Reduzierung der Eutrophierung führt.

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? **Yes**

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 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):