

Reporting requirements on sub programmes under MSFD Article 11

Reporter

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 Reporting Date (Submissiondate?) (YYYY-MM-DD e.g. 2013-04-29) **2014-10-09**

Member State

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

Region

Select one from list **ANS**

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4: Metadata about each sub-programme

4g: Sub-Programme ID

Provide a unique identifier for sub programme. Use sub(region) and MS code (e.g. BALDE) plus MS-defined alpha-numeric code (e.g. MADIT-D08-01)

ANSDE_Sub_033

4h: Temporal scope

Provide the start date of the sub-programme (past or future) and, if appropriate, an end date, or indicate the programme is ongoing:

From: (YYYY-MM-DD e.g. 2011-01-29)	To: (YYYY-MM-DD e.g. 2013-12-31)
1990	9999

4i: Spatial scope

Indicate the coverage of the sub-programme according to the four jurisdictional zones of MSFD Marine Waters (or outside this, either landward or beyond marine waters if appropriate, e.g. for pressures).

- | | |
|---|--|
| <input checked="" type="checkbox"/> Terrestrial part of MS | <input checked="" type="checkbox"/> EEZ (or similar) |
| <input type="checkbox"/> Transitional waters (WFD) | <input type="checkbox"/> Continental shelf (beyond EEZ) |
| <input checked="" type="checkbox"/> Coastal waters (WFD) | <input type="checkbox"/> Beyond MS Marine Waters |
| <input checked="" type="checkbox"/> Territorial waters | |

4j: Description Spatial Scope

Briefly describe the rationale for the geographic scope of the programme (e.g. in relation to relevant environmental characteristics, to pressures or to relevant activities and measures). Free text or URL web link or section in paper report

Emissionsquellen befinden sich an Land EMEP erstellt jährlich Daten und Karten der Stickstoff-Deposition für die gesamte Nord- und Ostsee mit einer Auflösung von 0,1° x 0,1° Long/Lat.

4k: Purpose

For what purpose is this sub-programme aimed at collecting data and information?

- Environmental state and impacts
 Human activities causing the pressures
 Pressures
 Effectiveness of measures

4l: Links to programmes of other directives & conventions

If monitoring for other Community legislation or international agreements is contributing to your MSFD programme (as indicated in Question 8a), give details as follows: • Name of other programme • A specific URL web link(s) to where the information required for each part of Question 9 can easily be found and is directly relevant for your marine waters. • Describe how the existing monitoring will contribute to MSFD needs including how it is integrated into your MSFD programme. This field can also be used to link to a national programme. If the information required for each part of Question 9 is maintained on a permanent official web site, Question 9 does not need to be completed. Free text (for programme name and description) and URL web link(s) or indicate Not relevant (to this sub-programme).

In Deutschland werden die Monitoringanforderungen aller Meeres-relevanten EG-Richtlinien und internationalen Übereinkommen in einem gemeinsamen nationalen Messprogramm (Bund-/Länder-Messprogramm) 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 sind im Kennblatt Hydrochemie unter <http://www.blmp-online.de/Seiten/Monitoringhandbuch.htm> mit dem dort angegebenen Stand zu finden. Nach einem Systemwechsel werden ab Mitte 2015 aktuelle Informationen unter <http://mhb.meeresschutz.info> bereitgestellt. Die berichtsrelevanten Informationen zu diesem Subprogramm Nährstoff-Einträge - aus der Atmosphäre sind in aggregierter Form unter <http://mhb.meeresschutz.info/de/monitoring/sub-programm/ans/33.html> zu finden. Sie werden unabhängig vom Berichtszyklus fortlaufend aktuell gehalten.

9: Methodology

9a: Elements monitored

Which elements (ecosystem components, pressures from Annex III) are monitored?

List the specific element (e.g. particular species or contaminant) within the broad categories reported under Question 5c.

|| Das Subprogramm besteht aus den/dem folgenden Messprogramm/en (=MP): MP_042 (Atmosphärische Stickstoffemissionen (Nordsee)) und MP_043 (Atmosphärische Deposition Nordsee) || || MP_042 || Emission von: NOx (als NO2), NH3 || MP_043 || Gemessene nasse Deposition von: NO3-, NH4+ [P (Pilotstudie geplant)]; modellierte Gesamtdeposition (trocken & nass) von NOx, NHx, Ntot (EMEP-Modell),

9b: Parameters measured

What parameters of the monitoring elements are measured?

State impact

Species distribution

- Species distributional range/pattern
 Migration patterns

Habitat distribution

- Habitat distributional range/pattern

Habitat impacts

- Mortality/damage rates to species from a pressure
 Extent of man-made/artificial habitat

Species population characteristics

- Size of individuals (length or weight)
 Sex
 Age at maturity
 Diet

Species population_size

- Population size (abundance)
 Population size (biomass)

Habitat condition biological

- Species present (whole community or selected species only)
 Species abundance (numbers or cover)
 Species abundance (biomass)
 Concentration of Chlorophyll a
 Proportion of habitat covered by habitat-defining species (e.g. a seagrass, biogenic reef-forming species)
 Stability of edges to community (e.g. of seagrass, biogenic reefs)

Species impacts

- Composition and number of retained/landed catch

Habitat extent

- Areal extent of habitat
 Area of dead biota (e.g. rhizomes or dead "matte" of Posidonia meadows, dead maerl or coral)

Habitat condition physical-chemical

- Temperature
 Salinity
 Tidal range/level
 Current velocity
 Wave action
 Concentration of oxygen
 Transparency / turbidity of water column
 pH
 pCO² - alkalinity
 Marine climatology
 Bathymetric depth

- | | | |
|---|---|---|
| <input type="checkbox"/> Life history stage (e.g. egg, juvenile, adult) | <input type="checkbox"/> Composition and number of discards | <input type="checkbox"/> Physical structure of habitat (e.g. sediment characteristics, topographic structure) |
| <input type="checkbox"/> Reproduction rate | <input type="checkbox"/> Composition and number of incidental/by-catch | <input type="checkbox"/> Hydrological conditions of habitat |
| <input type="checkbox"/> Survival rate | <input type="checkbox"/> Mortality/injury rates by a pressure (e.g. ship strikes, litter entanglement, noise) | <input type="checkbox"/> Freshwater input rates from rivers |
| <input type="checkbox"/> Mortality rate | <input type="checkbox"/> Predation rates on eggs, juveniles and/or adults | |
| | <input type="checkbox"/> Disturbance rates by human activities | |
| | <input type="checkbox"/> Alterations to habitat (e.g. to breeding areas) | |

Pressures**Pressure input**

- Input level of chemical/nutrient/pollutant from atmosphere
- Input level of chemical/nutrient/pollutant from land-based sources
- Input level of chemical/nutrient/pollutant from sea-based sources

Pressure output

- Spatial distribution/extent of pressure
- Concentration of chemical/nutrient/pollutant in biota
- Concentration of chemical/nutrient/pollutant in water column
- Concentration of chemical/nutrient/pollutant in/on seabed substrate
- Quantity and type of non-indigenous species
- Quantity and type of microbial pathogens
- Quantity and type of litter items
- Quantity and type of microparticles
- Quantity and type of litter in animal stomachs
- Intensity and temporal frequency of underwater noise

Activity

- Spatial distribution/extent of activity
- Intensity of activity
- Temporal changes in activity
- Type of activity (within broad category of, e.g. fisheries, tourism/recreation)

Other

- Other parameter

9c: Monitoring method

Provide a reference to a published method or, if unpublished, describe the method used.

|| MP_042 || EMEP: Centre of Emission Inventories and Projections (CEIP)
http://www.ceip.at/ms/ceip_home1/ceip_home/reporting_instructions/ **|| MP_043 ||**

9d: Method alteration

If this field is left blank it is assumed the method used is according to the published method given in Q9c.

|| MP_042 || || MP_043 || EMEP-Modellierung: Meteorological Synthesizing Centre West of EMEP (MSC-W):
http://emep.int/mscw/index_mscw.html; **EMEP-Messungen: Chemical Coordinating Centre of EMEP (CCC):**
<http://www.nilu.no/projects/ccc/index.html>; **OSPAR CAMP: http://www.ospar.org/content/content.asp?menu=00910301410000_000000_000000; HELCOM <http://helcom.fi/Recommendations/Rec%2024-1.pdf>**

9e: Quality Assurance (QA)

In addition to a specified method, is there any additional Quality Assurance used?

- Biological Effects Quality Assurance in Monitoring Programmes
 Helsinki Commission Cooperative Monitoring in the Baltic Marine Environment manual of measurement protocols
 ICES Data Centre Data Type Guides
 IOC Manual of Quality Control Procedures for Validation of Oceanographic Data
 Joint Global Ocean Flux Study core measurement protocols
 Quality Assurance of Information for Marine Environmental Monitoring in Europe
 National standard (specify)
 Other standard (specify)
 Unknown

Description of Other (if selected):

|| MP_042 || Nationaler Standard: zentralisiertes System Emissionen (ZSE) mit implementierter QS/QA
 EMEP: Centre of Emission Inventories and Projections (CEIP): <http://www.ceip.at/> || MP_043 ||
 Modellierung: Meteorological Synthesizing Centre West of EMEP (MSC-W):
http://emep.int/mscw/index_mscw.html; Messungen: Chemical Coordinating Centre of EMEP (CCC):
<http://www.nilu.no/projects/ccc/qa/index.htm>; OSPAR CAMP:
http://www.ospar.org/content/content.asp?menu=00910301410000_000000_000000; HELCOM
<http://helcom.fi/Recommendations/Rec%2024-1.pdf>

9f: Quality Control (QC)

What type of Quality Control is used?

- Delayed mode validation on the data
 No validation on the data
 Real-time plus delayed mode validation on the data
 Real-time validation on the data
 Other type of QC (specify)
 Unknown

Description of Other (if selected):

|| MP_042 || Nationaler Standard: zentralisiertes System Emissionen (ZSE) mit implementierter QS/QA ;
 EMEP: Centre of Emission Inventories and Projections (CEIP): <http://www.ceip.at/> || MP_043 || ||
 Additional Data || OtherQC, DelayedValidation

9g: Spatial resolution (density) of sampling

What is the proportion of the geographic scope (given in Q4i) which is covered by sampling? This question is intended to provide a broad indication only of expected sampling density, as information on actual sampling locations, once collected, should be linked to Art. 19.3 on access to the monitoring data]

Proportion of geographic scope covered by sampling (%)

100 %

Approximate number of samples expected to be taken from the assessment area (No./year)

|| MP_042 || Jährliche Berechnung der Emissionen; diese fließen in die EMEP-Berichte ein; OSPAR hat den letzten Bericht 2007 angefordert (Daten 1990-2004), gegenwärtig wird verhandelt, welche Informationen in welcher zeitlichen/räumlichen Auflösung von den Vertragsstaaten benötigt werden. Deutschland hat wiederholt dafür votiert, eine Aktualisierung des letzten EMEP Berichtes als einen Baustein für COMP III durchzuführen. || MP_043 || EMEP modelliert 1x jährlich, gemessen wird an den 2 Messstationen wöchentlich, die Messdaten werden zur Validierung des Modells genutzt; Jährliche Berechnung der Emissionen; diese fließen in die EMEP-Berichte ein; OSPAR hat den letzten Bericht 2007 angefordert (Daten 1990-2004), gegenwärtig wird verhandelt, welche Informationen in welcher zeitlichen/räumlichen Auflösung von den Vertragsstaaten benötigt werden. Deutschland hat wiederholt dafür votiert, eine Aktualisierung des letzten EMEP Berichtes als einen Baustein für COMP III durchzuführen.

9h: Temporal resolution (periodicity) of sampling

What is the temporal frequency of the sub-programme?

- Every 6 years
 Every 3 years
 Every 2 years
 Yearly
 6 monthly
 3 monthly
 Monthly
 2 weekly
 Weekly
 Daily
 Hourly
 Continually
 Oneoff
 As needed
 Other (specify)
 Unknown

Description of Other (if selected):

9i: Description of Sub-programme

Where the information for Questions 9a-9h varies within the sub-programme (e.g. spatially or temporarily), provide details. This could include, for example: • variation in relation to risk across the area (e.g. coastal/offshore, pressure-related) • Variation due to differing management regimes (e.g. MPAs or other management zones)

10: Data

10a: Aggregation of data

At which scale can the data from the sub-programme be aggregated for environmental assessments?

- Subregion
 Region
 EU
 Other (specify)
 Unknown

Description of Other (if selected):

|| MP_042 || Emissionen werden pro Land erfasst || MP_043 || || Additional Data || Other, EU, Region, Subregion

10b: Description Data Aggregation

If 'other' is selected, describe the scale. If the data cannot be aggregated (beyond the national scale), give reasons?

|| MP_042 || Emissionen werden pro Land erfasst || MP_043 || || Additional Data || Other, EU, Region, Subregion

10c: Access to data

Access to data

Nature of data/information to be made available. Select all relevant from List:

- Unprocessed/raw data
 Data products
 Processed data sets
 Simulated (modelled) data

What method/mechanism will be used to make the data available? Select one from List

- Providing URL to view data
 Provide location of data in national data centre
 Providing URL to download data
 Provide location of data in international data centre (e.g. RSC)

Will the EC/EEA have use rights? Select one from List:

- Open access
 Restricted by specific licence
 Moratorium
 Data will not be available
 Restricted by general licence

Which INSPIRE standard is/will be used? Select from List

- Hydrography
 Habitats and biotopes
 Protected sites
 Land cover
 Agriculture and aquaculture facilities
 Land use
 Area management/restriction/regulation zones and reporting units
 Oceanographic geographical features
 Environmental monitoring facilities
 Sea regions
 Geology
 Species distribution

When will the data first become available? Date: (YYYY-MM e.g 2013-02)

2013-09

How frequently are the data expected to be updated thereafter? Select one from List:

- Every 6 years
 6 monthly
 Weekly
 Oneoff
 Every 3 years
 3 monthly
 Daily
 As needed
 Every 2 years
 Monthly
 Hourly
 Other (specify)
 Yearly
 2 weekly
 Continually
 Unknown

Description of Other and/or National standard (if they are selected), please indicate which standard the description covers:

10d: Description Data Access

Describe how the data and information from the programme will be made accessible to the EC/EEA, indicating whether this is in place already or under development. Free text or URL 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=bfq>) 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.