

OSPAR Fact Sheet:
D5 - Nutrient Inputs via the Atmosphere

No.	Topic	Question	Summary information	OSPAR FACT SHEET ELEMENT
Question 4: About the sub-programme				
4g	Sub-Programme ID	Provide a unique identifier for sub-programme.	Use sub(region) and MS code (e.g. BALDE) <u>plus</u> MS-defined alpha-numeric code (e.g. MADIT-D08-01)	Not addressed in this OSPAR fact sheet.
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	Start date: YYYY	The programme is on-going. OSPAR has regular annual reporting information that goes back to around 1987.
			End Date: YYYY, 9999 (ongoing)	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).	Select all relevant from List: Monitoring zones	The programme covers mainly terrestrial, transitional and coastal waters.
4j	Description_Spatial Scope	Briefly describe the rationale for the geographic scope of the programme (e.g. in relation to relevant environmental characteristics, such as distribution of a species or habitat, to pressures or to relevant activities and measures).	Free text or URL web link or section in paper report	The OSPAR Comprehensive Atmospheric Monitoring Programme (CAMP) consists of coastal atmospheric monitoring stations where monitoring data are estimated to represent marine atmospheric deposition conditions.
4k	Purpose	For what purpose is this sub-programme aimed at collecting data and information?	Select all relevant from List: Monitoring purpose	Environmental status and impacts; pressures, human activities causing the 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:		OSPAR Convention for the Protection of the Marine Environment of the North-East Atlantic (OSPAR Convention)
		<ul style="list-style-type: none"> 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. 	Free text (for programme name and description) and URL web link(s) or indicate Not relevant (to this sub-programme).	Comprehensive Atmospheric Monitoring Programme (CAMP) [F] [F] Principles for the Comprehensive Atmospheric Monitoring Programme. Revised in 2005. Adopted: 2001. OSPAR Agreement Ref. No.: 2001-07 http://www.ospar.org/documents/dbase/decrecs/agreements/01-07e_CAMP%20Principles.doc
Question 9: Methodology				
9a	Elements monitored	Which elements (ecosystem components, pressures from MSFD Annex III) are monitored?	List the specific elements (e.g. particular species or contaminants) <u>within</u> the broad categories reported under Question 5c.	Inputs of fertilisers and other nitrogen — and phosphorus-rich substances (e.g. from point and diffuse sources, including agriculture, aquaculture, atmospheric deposition), — inputs of organic matter (e.g. sewers, mariculture, riverine inputs).
9b	Parameters measured	What parameters of the elements are measured?	Choose from the List: Monitoring parameters, e.g. concentration in sediment, population size, intensity of pressure [full list to be developed].	Ammonium in precipitation; Nitrate in precipitation; in gaseous phase: NO ₂ , HNO ₃ , and NH ₃ in aerosol phase (*): ammonium (NH ₄ ⁺) and nitrate (NO ₃ ⁻)*: As an alternative, total nitrate (sum of gaseous HNO ₃ and particulate NO ₃) and total ammonium (sum of gaseous NH ₃ and particulate NH ₄) can be measured
9c	Monitoring method	What is the method used for monitoring (data collection) in the field and, where appropriate, any subsequent laboratory processing?	Provide a reference to a published method or, if unpublished, describe the method used.	
9d	Method alteration	Describe the methods used if they deviate from the published method provided.	Free text or URL web link or section in paper report	See CAMP Principles and reference to EMEP methods.
		If this field is left blank it is assumed the method used is according to the published method given in Q9c.		See CAMP Principles and reference to EMEP methods.
9e	Quality Assurance (QA)	In addition to a specified method, is there any additional Quality Assurance used?	Select one from List: Monitoring QA	See CAMP Principles.
9f	Quality Control (QC)	What type of Quality Control is used?	Select one from List: Monitoring QC	Guidance on Quality control set out in the CAMP Principles. Data managed at OSPAR level are subject to validation by Contracting Parties.

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9g	Spatial resolution (density) of sampling	What is the proportion of the geographic scope (given in Q4i) which is covered by sampling?	Approximate proportion (%)	Contracting Parties participate in CAMP with one or more coastal monitoring stations.
		What is the density of sampling within the proportion given above?	Approximate number of samples expected to be taken from the assessment area (No./year)	Network of fixed coastal monitoring stations.
9h	Temporal resolution (periodicity) of sampling	What is the temporal frequency of the sub-programme?	Select one from List: Monitoring frequency	See CAMP Principles.
9i	Description_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:	Free text or URL web link or section in paper report	Not addressed in detail in this OSPAR fact sheet. See OSPAR publications of annual CAMP Data reports for historic and current practice by OSPAR Contracting Parties.
Question 10: Monitoring data				
10a	Aggregation of data	At which scale can the data from the sub-programme be aggregated for environmental assessments?	Select one from List: Monitoring data aggregation scale	Sub-regions and Region of the North-East Atlantic
10b	Description_DataAggregation	If the data cannot be aggregated (beyond the national scale), give reasons?		OSPAR produces assessments at the North East Atlantic Scale [and its sub-regions]
10c	Access to data	Nature of data/information to be made available:	Select one or more from List: Data type	OSPAR CAMP Database at NILU http://ebas.nilu.no subject to OSPAR data policy.
		What method/mechanism will be used to make the data available?	Select from List: Data access mechanism	OSPAR CAMP Database at NILU http://ebas.nilu.no subject to OSPAR data policy. Database can be queried online.
		Will the EC/EEA have use rights?	Select one from List: Data access rights	Database already online.
		How frequently are the data expected to be updated thereafter?	Select one from List: Monitoring frequency	OSPAR recommends Contracting Parties submit their data annually.
10d	Description_DataAccess	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	CAMP data reported by Contracting Parties to OSPAR under this programme are managed by an external data centre (NILU; Norway).