

CEMP Appendix BB1: Abundance and distribution of seals (M3)



Information collection
development need



Assessment criteria
development need



Quality Assurance tools
development need

Abundance and distribution of seals (OSPAR Common Indicator M-3)			
Monitoring Purpose	State/impact	Applicable MSFD GES Criteria	MSFD criteria: 1.1 Species Distribution;1.2 Population Size MSFD indicator: 1.1.2 Distributional pattern within range; 1.2.1 Population abundance
Monitoring Guidelines / Monitoring Method in place	National guidelines; each CP should have their own guidelines in place	Assessment Guidelines	CEMP Guidelines (Agreement Number: 2016/xx)
Quality Assurance Procedures in place	National standards; each CP should have their own QA process	Assessment tools available	
Quality Control	Other QC; each CP should have their own QC process	Data Custodian	ICES Data Centre - 2016 onwards
Element Monitored	Marine Mammals: Seals; Grey seal (<i>Halichoerus grypus</i>) and Harbour seal (<i>Phoca vitulina</i>)	Data Depository	OSPAR Seal database from 2016 [LINK]
Parameter Measured	Species distributional pattern, Population size (abundance), (Life history stage),	Indicator Metric	Changes in estimated abundance and location
Temporal scope	Start date: 1960s End date: 9999 Monitoring frequency: Other; as needed to reflect timing of seals hauled out on land and power to detect change	Data submission Frequency/ deadline and link to reporting format	TBC Insert link to reporting format
Spatial Scope		Seals need to be monitored where they haul out onto land to breed or moult in regions II and III.	

Nature of Data	Unprocessed Data, Processed Data, Data Products, Modelled data		Aggregation of Data	Regions (II & III)	
	I	II		III	IV
OSPAR Region					
Contracting Parties monitoring	–	DE, DK, FR, NL, NO, SE, UK	IE, UK	–	–
Contracting parties supplying data	–	DE, DK, FR NL, NO, UK,	UK	–	–
Spatial Resolution (proportion)	–			–	–
Spatial Resolution (Density)	–			–	–
Contracting Parties with an “opt out”	–	–		–	–