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Delegations will find attached document D044527/03 - Annex.

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Encl.: D044527/03 - Annex



Brussels, **XXX**  
[...](2016) **XXX** draft

ANNEX 1

**ANNEX**

**to the**

**Commission Directive**

**amending Directive 2008/56/EC of the European Parliament and of the Council as regards the indicative lists of elements to be taken into account for the preparation of marine strategies**

## D044527/03

## ANNEX

to the

## Commission Directive

amending Directive 2008/56/EC of the European Parliament and of the Council as regards the indicative lists of elements to be taken into account for the preparation of marine strategies

## ANNEX III

Indicative lists of ecosystem elements, anthropogenic pressures and human activities relevant to the marine waters

(referred to in Articles 8(1), 9(1), 9(3), 10(1), 11(1) and 24)

**Table 1 – Structure, functions and processes of marine ecosystems**

with particular relevance for point (a) of Article 8(1), and Articles 9 and 11

Theme	Ecosystem elements	Possible parameters and characteristics (Note 1)	Relevant qualitative descriptors laid down in Annex I (Notes 2 and 3)
Species	Species groups (Note 4) of marine birds, mammals, reptiles, fish and cephalopods of the marine region or subregion	Spatial and temporal variation per species or population: <ul style="list-style-type: none"> <li>– distribution, abundance and/or biomass</li> <li>– size, age and sex structure</li> <li>– fecundity, survival and mortality/injury rates</li> <li>– behaviour including movement and migration</li> <li>– habitat for the species (extent, suitability)</li> </ul> Species composition of the group	(1); (3)
Habitats	Broad habitat types of the water column (pelagic) and seabed (benthic) (Note 5), or other habitat types, including their associated biological communities throughout the marine region or subregion	Per habitat type: <ul style="list-style-type: none"> <li>– habitat distribution and extent (and volume, if appropriate)</li> <li>– species composition, abundance and/or biomass (spatial and temporal variation)</li> <li>– size and age structure of species (if appropriate)</li> <li>– physical, hydrological and chemical characteristics</li> </ul>	(1); (6)

Theme	Ecosystem elements	Possible parameters and characteristics (Note 1)	Relevant qualitative descriptors laid down in Annex I (Notes 2 and 3)
		Additionally for pelagic habitats: – chlorophyll a concentration – plankton bloom frequencies and spatial extent	
Ecosystems, including food webs	Ecosystem structure, functions and processes, comprising:  – physical and hydrological characteristics  – chemical characteristics  – biological characteristics  – functions and processes	Spatial and temporal variation in: – temperature and ice – hydrology (wave and current regimes; upwelling, mixing, residence time, freshwater input; sea level) – bathymetry – turbidity (silt/sediment loads), transparency, sound – seabed substrate and morphology  – salinity, nutrients (N, P), organic carbon, dissolved gases (pCO <sub>2</sub> , O <sub>2</sub> ) and pH  – links between habitats and species of marine birds, mammals, reptiles, fish and cephalopods – pelagic-benthic community structure  – productivity	(1); (4)

### Notes related to Table 1

Note 1: An indicative list of relevant parameters and characteristics for species, habitats and ecosystems is given, reflecting parameters affected by the pressures of Table 2 of this Annex and of relevance to criteria laid down in accordance with Article 9(3). The particular parameters and characteristics to be used for monitoring and assessment should be determined in accordance with the requirements of this Directive, including those of its Articles 8 to 11.

Note 2: The numbers in this column refer to the respective numbered points in Annex I.

Note 3: Only the state-based qualitative descriptors (1), (3), (4) and (6) which have criteria laid down in accordance with Article 9(3) are listed in Table 1. All other, pressure-based, qualitative descriptors under Annex I may be relevant for each theme.

Note 4: These species groups are further specified in Part II of the Annex to Commission Decision 2016/XX/EU\*.

Note 5: These broad habitat types are further specified in Part II of the Annex to Decision 2016/XX/EU.

\* OJ: Please insert the title, date and OJ reference of "Commission Decision laying down criteria and methodological standards on good environmental status and specifications and standardised methods for monitoring and assessment, and repealing Decision 2010/477/EU", published on the same day.

**Table 2 – Anthropogenic pressures, uses and human activities in or affecting the marine environment**

<b>2a Anthropogenic pressures on the marine environment</b>			
with particular relevance for points (a) and (b) of Article 8(1), and Articles 9, 10 and 11			
<b>Theme</b>	<b>Pressure (Note 1)</b>	<b>Possible parameters</b>	<b>Relevant qualitative descriptors laid down in Annex I (Notes 2 and 3)</b>
Biological	Input or spread of non-indigenous species	Intensity of, and spatial and temporal variation in, the pressure in the marine environment and, where relevant, at source	(2)
	Input of microbial pathogens		
	Input of genetically modified species and translocation of native species		
	Loss of, or change to, natural biological communities due to cultivation of animal or plant species		
	Disturbance of species (e.g. where they breed, rest and feed) due to human presence		
	Extraction of, or mortality/injury to, wild species (by commercial and recreational fishing and other activities)		(3)
Physical	Physical disturbance to seabed (temporary or reversible)	For assessment of environmental impacts of the pressure, select relevant ecosystem elements and parameters from Table 1	(6); (7)
	Physical loss (due to permanent change of seabed substrate or morphology and to extraction of seabed substrate)		
	Changes to hydrological conditions		
Substances, litter and energy	Input of nutrients – diffuse sources, point sources, atmospheric deposition		(5)
	Input of organic matter – diffuse sources and point sources		
	Input of other substances (e.g. synthetic substances, non-synthetic substances, radionuclides) – diffuse sources, point sources, atmospheric deposition, acute events		(8); (9)
	Input of litter (solid waste matter, including micro-sized litter)		(10)
	Input of anthropogenic sound (impulsive, continuous)		
	Input of other forms of energy (including electromagnetic fields, light and heat)		(11)
	Input of water – point sources (e.g. brine)		

<b>2b Uses and human activities in or affecting the marine environment</b>	
with particular relevance for points (b) and (c) of Article 8(1) (only activities marked * are relevant for point (c) of Article 8(1)), and Articles 10 and 13	
<b>Theme</b>	<b>Activity</b>
Physical restructuring of rivers, coastline or seabed (water management)	Land claim
	Canalisation and other watercourse modifications
	Coastal defence and flood protection*
	Offshore structures (other than for oil/gas/renewables)*
	Restructuring of seabed morphology, including dredging and depositing of materials*
Extraction of non-living resources	Extraction of minerals (rock, metal ores, gravel, sand, shell)*
	Extraction of oil and gas, including infrastructure*
	Extraction of salt*
	Extraction of water*
Production of energy	Renewable energy generation (wind, wave and tidal power), including infrastructure*
	Non-renewable energy generation
	Transmission of electricity and communications (cables)*
Extraction of living resources	Fish and shellfish harvesting (professional, recreational)*
	Fish and shellfish processing*
	Marine plant harvesting*
	Hunting and collecting for other purposes*
Cultivation of living resources	Aquaculture – marine, including infrastructure*
	Aquaculture – freshwater
	Agriculture
	Forestry
Transport	Transport infrastructure*
	Transport – shipping*
	Transport – air
	Transport – land
Urban and industrial uses	Urban uses
	Industrial uses
	Waste treatment and disposal*
Tourism and leisure	Tourism and leisure infrastructure*
	Tourism and leisure activities*
Security/defence	Military operations (subject to Article 2(2))
Education and research	Research, survey and educational activities*

**Notes related to Table 2**

- Note 1: Assessments of pressures should address their levels in the marine environment and, if appropriate, the rates of input (from land-based or atmospheric sources) to the marine environment.
- Note 2: The numbers in this column refer to the respective numbered points in Annex I.
- Note 3: Only pressure-based qualitative descriptors (2), (3), (5), (6), (7), (8), (9), (10) and (11), which have criteria laid down in accordance with Article 9(3), are listed in Table 2a. All other, state-based, qualitative descriptors under Annex I may be relevant for each theme.'