

ANNEX II

1 SURFACE WATERS

1.2. Ecoregions and surface water body types

1.2.1. Rivers

SYSTEM A

Fixed typology	Descriptors
Ecoregion	Ecoregions shown on map A in Annex XI
Type	Altitude typology high : > 800 m mid- : 200 to 800 m altitude lowland : < 200 m Size typology based on catchment area small : 10 to 100 km ² medium : > 100 to 1 000 km ² large : > 1 000 to 10 000 km ² very large : > 10 000 km ² Geology calcareous siliceous organic

SYSTEM B

Alternative characterisation	Physical and chemical factors that determine the characteristics of the river or part of the river and hence the biological population structure and composition
Obligatory factors	altitude latitude longitude geology size
Optional factors	distance from river source energy of flow (function of flow and slope) mean water width mean water depth mean water slope form and shape of main river bed river discharge (flow) category valley shape transport of solids

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	acid neutralising capacity mean substratum composition chloride air temperature range mean air temperature precipitation
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1.2.2. Lakes

SYSTEM A

Fixed typology	Descriptors
Ecoregion	Ecoregions shown on map A in Annex XI
Type	Altitude typology high : > 800 m mid- : 200 to 800 m altitude lowland : < 200 m Depth typology based on mean depth < 3 m 3 to 15 m > 15 m Size typology based on surface area 0,5 to 1 km ² 1 to 10 km ² 10 to 100 km ² > 100 km ² Geology calcareous siliceous organic

SYSTEM B

Alternative characterisation	Physical and chemical factors that determine the characteristics of the lake and hence the biological population structure and composition
Obligatory factors	altitude latitude longitude depth geology size
Optional factors	mean water depth lake shape residence time mean air temperature

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air temperature range
 mixing characteristics (e.g. monomictic, dimictic, polymictic)
 acid neutralising capacity
 background nutrient status
 mean substratum composition
 water level fluctuation

1.2.3. Transitional Waters

SYSTEM A

Fixed typology	Descriptors
Ecoregion	The following as identified on map B in Annex XI: Baltic Sea Barents Sea Norwegian Sea North Sea North Atlantic Ocean Mediterranean Sea
Type	Based on mean annual salinity < 0,5 ‰ : freshwater 0,5 to < : oligohaline 5 ‰ 5 to < 18 : mesohaline ‰ 18 to < : polyhaline 30 ‰ 30 to < : euhaline 40 ‰ Based on mean tidal range < 2 m : microtidal 2 to 4 m : mesotidal > 4 m : macrotidal

SYSTEM B

Alternative characterisation	Physical and chemical factors that determine the characteristics of the transitional water and hence the biological population structure and composition
Obligatory factors	latitude longitude tidal range salinity
Optional factors	depth current velocity

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wave exposure
 residence time
 mean water temperature
 mixing characteristics
 turbidity
 mean substratum composition
 shape
 water temperature range

1.2.4. Coastal Waters

SYSTEM A

Fixed typology	Descriptors
Ecoregion	The following as identified on map B in Annex XI: Baltic Sea Barents Sea Norwegian Sea North Sea North Atlantic Ocean Mediterranean Sea
Type	Based on mean annual salinity < 0,5 ‰ : freshwater 0,5 to < 5 ‰ : oligohaline 5 to < 18 ‰ : mesohaline 18 to < 30 ‰ : polyhaline 30 to < 40 ‰ : euhaline Based on mean depth shallow : < 30 m waters intermediate (30 to 200 m) deep : > 200 m

SYSTEM B

Alternative characterisation	Physical and chemical factors that determine the characteristics of the coastal water and hence the biological community structure and composition
Obligatory factors	latitude longitude tidal range salinity
Optional factors	current velocity

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wave exposure
mean water temperature
mixing characteristics
turbidity
retention time (of enclosed bays)
mean substratum composition
water temperature range
