



GROWTH AND INNOVATION IN OCEAN ECONOMY – GAPS AND PRIORITIES IN SEA BASIN OBSERVATION AND DATA

Annex 2 **SeaDataNet characteristic categories and definitions** **(P02 list)**

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Executive Summary

This annex gives the definition of the SeaDataNet categories of characteristics in use in the deliverable D1.3. For additional information about the SeaDataNet Common Vocabularies and the lists (P03,P02,P01) in use in this deliverable, please refer to :

<http://www.seadatanet.org/Standards-Software/Common-Vocabularies>

SDN P02 Code	SDN P02 discovery category name	SDN P02 definition
CAPH	Air pressure	Measurements of air pressure as the dependent variable (ie excluding air pressure measured to specify the z co-ordinate of a balloon or sonde), including derived parameters such as tendency (rate of change) and related parameters such as air density.
CDTA	Air temperature	Parameters quantifying the degree of hotness of the atmosphere. Specifically excludes indirect measurements of other parameters such as wet bulb temperatures.
CHUM	Atmospheric humidity	Parameters that either quantify the water content of moist air or are specifically used in its determination (eg wet bulb air temperature)
EWSB	Wind speed and direction	All parameters pertaining to wind velocity in either cartesian or polar co-ordinates. Units are a watchpoint as some codes specify knots.
BRDA	Bird counts	Parameters quantifying the number of birds (Class Aves) in a survey but not expressed per unit area. Includes presence/absence indicators.
CETA	Cetacean abundance	Parameters that specify the number of specified members of Order Cetacea present at a particular time and location, including presence/absence indicators.
FABD	Fauna abundance per unit area of the bed	Any fauna (class Animalia) abundance per unit area of sea, river or lake bed. Broad group overlapping a number of more specific groups that should be used preferentially, but this group is provided as an alternative to one-to-many mappings.
FATX	Fish abundance in water bodies	Parameters that quantify the numbers of fish (Osteichthyes, Agnatha and Chondrichthyes) at a given location in any body of salt or fresh water.
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FOCA	Seal abundance	Parameters that specify the number of specified members of Family Phocidae present at a particular time and location, including presence/absence indicators.
FREP	Fish reproduction	Parameters that quantify the fecundity, reproductive rates or nature of reproduction in fish (Osteichthyes, Agnatha and Chondrichthyes).
GP04	Bird reproduction	Parameters related to the reproduction of birds (Class Aves)
GP068	Reptile abundance	Parameters related to the abundance of reptiles (Class Reptilia)
GP088	Bird behaviour	Parameters describing the actions or reactions of birds (Class Aves), usually in response to the environment. Includes both parameters mapped to taxa and those mapped to non-taxonomic groupings.
HBCH	Habitat characterisation	Parameters specifying the physical or chemical environment of a place where an organism is found.
HBEX	Habitat extent	Parameters specifying the vertical and horizontal spatial extent of the ecological character of a place where an organism is found
ADUN	Administrative units	Parameters (including geometries, labels and categorizations) relating to areas where authorities have and-or exercise specific rights or obligations.
FCST	Fish and shellfish catch statistics	Parameters quantifying and describing biota take by fishing activities
FEFF	Fishing Effort	New SDN P02 entry
GP080	Fishing by-catch	Parameters quantifying the capture of non-target species during commercial and non-commercial fishing trips
GP087	Fishery characterisation	Parameters describing the extent, intensity, timing and method of fisheries
HZNV	Hazards to navigation	Parameters describing the location, nature and extent of objects that pose a threat to travel on the water column such as wrecks and obstructions

MARC	Marine archaeology	Parameters related to the study of human interaction with the sea through the investigation of associated physical remains, be they vessels, shore side facilities, port-related structures, cargoes, human remains or submerged landscapes
MLES	Marine environment leisure usage	Parameters quantifying the extent and nature of recreational activities in coastal waters, estuaries and their margins such as beaches.
MMST	Man-made structures	Parameters relating to human built structures on the coast or offshore and their impact on the environment.
VDFC	Transport in the water column	Parameters describing the transport of material, heat or energy in the water column
ACYC	Reference numbers	Data record, event, sample or measurement reference numbers
ALAT	Horizontal spatial co-ordinates	All forms of horizontal spatial coordinates such as lat/lon and grid references
APDA	Horizontal platform movement	All parameters relating to horizontal platform travel, including distance run
ASLV	Sea level	Measurements and predictions of the displacement of the water column surface from a fixed, stable reference
ATTN	Transmittance and attenuation of the water column	Parameters relating to the rate of electromagnetic radiation intensity decrease as it travels through the water column
CPWC	Chlorophyll pigment concentrations in the water column	Includes all variants of chlorophyll expressed in terms of per unit volume or unit area of the water column. Does not include data expressed per unit mass of SPM.
DOXY	Dissolved oxygen parameters in the water column	All dissolved oxygen parameters (including saturation and utilisation) for the water column
GWDR	Wave direction	Direct measurements (including visual estimates) plus statistically derived parameters
LRZA	Vertical velocity of the water column (currents)	Vertical water movement parameters including non-directional speeds
NTRA	Nitrate concentration parameters in the water column	Nitrate concentration parameters (including statistical parameters such as standard deviation) in the water column. Includes nitrate+nitrite, which is often loosely referred to as nitrate.
PHOS	Phosphate concentration parameters in the water column	Phosphate concentration parameters (including statistical parameters such as standard deviation) in the water column
PPAB	Light absorption in the water column	Water column spectral absorption parameters
PPRD	Primary production in the water column	Parameters associated with the quantification of primary production. This is defined as the fixation of carbon dioxide into either organic or inorganic carbon by living entities and so includes photosynthesis and calcification.
PSAL	Salinity of the water column	Parameters quantifying the concentration of sodium chloride in any body of water at any point between the bed and the atmosphere
PSST	Skin temperature of the water column	Temperature of the water column surface as measured by a radiometer. It does NOT include temperature measurements in the upper few metres of the water column such as thermosalinograph data
RFVL	Horizontal velocity of the water column (currents)	Parameters expressing the velocity (including scalar speeds and directions) of water column horizontal movement, commonly termed Eulerian currents
RVDS	River flow and discharge	Parameters related to the volume of water passing through a point in a river system per unit time, including the rates of freshwater, dissolved material and particulate load discharge from a river into the sea.
SAMO	Nutrient fluxes between the bed and the water column	Parameters quantifying the exchange of nutrients between the bed (ie the sediment) and the water column sometimes termed benthic fluxes
TDNT	Dissolved total and organic nitrogen concentrations in the water column	Concentration of total (organic plus inorganic) or organic dissolved nitrogen per unit volume of the water column. Grouped together as organic nitrogen frequently determined as total nitrogen.
TDPX	Dissolved total or organic phosphorus concentration in the water column	Concentration of total (organic plus inorganic) or organic dissolved phosphorus per unit volume of the water column. Grouped together as organic phosphorus frequently determined as total phosphorus
TEMP	Temperature of the water column	Temperature parameters in any body of water at any point between the bed and the atmosphere excluding the top few microns sampled by radiometers known as the skin

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TRAN	Transport activity	Parameters quantifying the level of activity moving people or cargo from one place to another.
TSED	Concentration of suspended particulate material in the water column	Parameters quantifying SPM concentration in the water column by weight, by volume or in terms of turbidity
WVSP	Spectral wave data parameters	Parameters for directional and non-directional spectral wave data, excluding wave directions derived from spectral data.
WVST	Wave height and period statistics	Statistical parameters derived from wave records to express wave height and period
COGE	Coastal geomorphology	All parameters associated with coastal landforms such as beaches and dunes including morphology, evolution and associated transport phenomena
MBAN	Bathymetry and Elevation	Depth of the water column or elevation of land surface relative to sea surface, geoid or other datum
MNGS	Sediment grain size parameters	Parameters specifying the physical dimensions of the particles comprising unlithified sediment (including expressions of shape such as aspect ratio) and statistics derived from their variation in a sample (e.g. mean, mode, sorting, skewness).
RMIN	Inorganic chemical composition of sediment or rocks	Parameters specifying the proportions of inorganic components (major/minor/trace elements, trace metals etc.) in sediment or rock samples. Major elements includes the H ₂ O ⁺ and H ₂ O ⁻ parameters reported by convention in oxide weight per cent geochemical major element analyses.