

# Presentation of the updated proposal for Data Standards (DS) and Data Dictionaries (DD)

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Meeting of the Ecosystem Approach  
Correspondence Group on Monitoring  
(CORMON) on Coast and Hydrography,  
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## EO7. Alteration of hydrographical conditions

### CI15. Location and extent of the habitats impacted directly by hydrographic alteration

- Data Dictionary and Data Standards for collection and transmission of monitoring data to InfoMAP system - Summary

Parameter	Spatial resolution	Temporal coverage/resolution	Data format
Location and extend of coastal or offshore infrastructures	5 mt or higher	Every 6 years	GIS Layer: polyline or polygons
Location and extend of hydrographical changes	25 mt or higher	Every 6 years	GIS Layer: polygons
Current Velocity	25 mt or higher	>5 years/Monthly mean	NetCDF or raster grid
Temperature	25 mt or higher	>5 years/Monthly & daily mean	NetCDF or raster grid
Salinity	25 mt or higher	>5 years/Monthly & daily mean	NetCDF or raster grid
Sea Surface Height	25 mt or higher	>5 years/Monthly & daily mean	NetCDF or raster grid
Turbidity	25 mt or higher	>5 years/ Satellite: Daily mean; In-situ observations: at least monthly	NetCDF or raster grid
Bathymetry	25 mt or higher	>5 years	raster grid
Wave	25 mt or higher	>5 years/ hourly-instantaneous	NetCDF or raster grid
Benthic habitat	100 mt or higher	>5 years/Every 3 years	GIS Layer: polygons



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#### Data Dictionary and Data Standards – specific issues

- **Location and extend of coastal or offshore infrastructures**
  - ✓ ASDES: Description of coastal or offshore infrastructure
  - ✓ EXT: In case the coastal or offshore infrastructure is an **extension of a pre-existing one**, it is necessary to specify if the polyline corresponds to such extension - Use the following codes: 1=Yes, it is the extension; 0=No, it is part of the pre-existing infrastructure
  - ✓ Spatial resolution: 5 mt or higher as produced by **CAD (Computer Aided Design) software**
  - ✓ **Vertical coverage: At least 2 levels, one at sea surface and one at the sea bottom**



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Data Dictionary and Data Standards – specific issues

- **Location and extend of hydrographical changes**
  - PAR: Parameter that is significantly and permanently changed due to coastal or offshore infrastructure. Choose one from the following list:
    - ✓ current velocity
    - ✓ temperature
    - ✓ salinity
    - ✓ sea surface height
    - ✓ turbidity
    - ✓ wave
    - ✓ other
  - PAR\_OTH: In case the PAR field is 'other' specify the hydrographical parameter
  - **Vertical coverage At least 2 levels, one at sea surface and one at the sea bottom**



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Data Dictionary and Data Standards – specific issues

- **Current Velocity – Temperature – Salinity - Sea Surface Height – Wave**
  - Observations/Models
    - ✓ Numerical model assimilated and validated with satellite and in-situ monitoring data and preferably nested in Copernicus CMEMS temperature products for boundary conditions (0.063degree x 0.063degree)
- **Turbidity**
  - Observations/Models
    - ✓ Satellite or in-situ observations
- **Bathymetry**
  - Observations/Models
    - ✓ Digital Terrain Model from in-situ observations by multibeam



## EO7. Alteration of hydrographical conditions

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#### Data Dictionary and Data Standards – specific issues

- **Benthic habitat**

- Observations/Models
  - ✓ In-situ monitoring observations
- Variables
  - ✓ Type of habitat according to the 'Reference List of Marine and Coastal Habitat Types in the Mediterranean' – Annex I of the CI15 Guidance Fact Sheet. Use the highest level of identification, for example 'MA1.531 Association with encrusting Corallinales creating belts (e.g. Lithophyllum bissoides, Neogoniolithon spp.)' for Littoral rock/Upper mediolittoral rock.



**EO8. Coastal ecosystem and landscape IMAP Common Indicator**  
**CI16. Length of coastline subject to physical disturbance due to the influence of manmade structures**

- Data Dictionary and Data Standards for collection and transmission of monitoring data to InfoMAP system - Summary

Parameter	Spatial resolution	Variables	Data format
Location and extend of artificial structures	10 mt or higher	Border on the sea side of coastal artificial structures	GIS Layer: polyline or polygons
Artificial/Natural coastline	10 mt or higher	Segment of artificial/natural of coastline	GIS Layer: polyline



**EO8. Coastal ecosystem and landscape IMAP Common Indicator**  
**CI16. Length of coastline subject to physical disturbance due to the influence of manmade structures**

Data Dictionary and Data Standards – specific issues

- **Location and extend of artificial structures**
  - ASCODE: Mandatory. Integer. Code of type of artificial infrastructure. The following code list should be used:
    - ✓ 1 Breakwaters
    - ✓ 2 Seawater/Revetments/Sea dike
    - ✓ 3 Groins
    - ✓ 4 Jetties
    - ✓ 5 River mouth structures
    - ✓ 12 Port and marinas
    - ✓ 21 Land reclamation
  - ASDES: Optional. Text. Description of type of artificial infrastructures
  - Municipal: Optional. Text. Name of municipality or local administrative region where the polygon of impervious surface is located
  - Year: Mandatory. Text. Year of production of the information layer



**EO8. Coastal ecosystem and landscape IMAP Common Indicator**  
**CI16. Length of coastline subject to physical disturbance due to the influence of manmade structures**

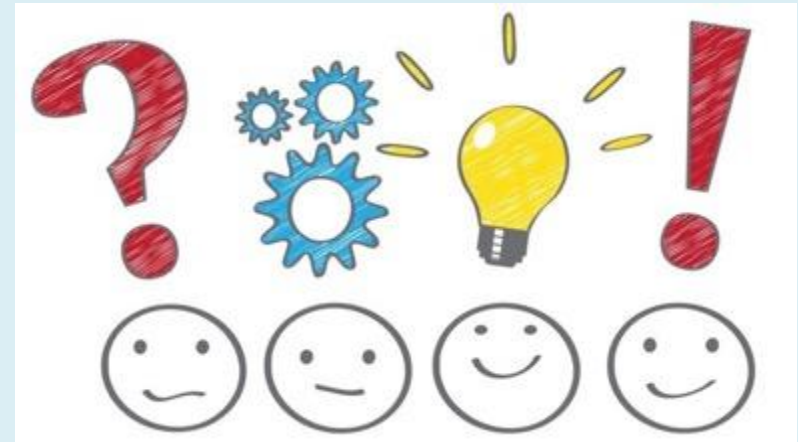
Data Dictionary and Data Standards – specific issues

- **Artificial/Natural coastline**

- ART\_NAT: Mandatory. Integer. Code for type of segment of coastline. Use the following code list:
  - ✓ 0 Natural coastline
  - ✓ 1 Artificial coastline
- Municipal: Optional. Text. Name of municipality or local administrative region where the polygon/polyline of segment of coastline is located
- Year: Mandatory. Text. Year of production of the information layer
- Ref\_Year: Mandatory. Year of the reference coastline used to represent natural and artificial segments



# Thank you for the attention



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