

REVIEWING AND
EVALUATING THE
MONITORING AND
ASSESSMENT OF
MARITIME SPATIAL
PLANNING



Extended HILUCS TEG panel code list for sea & coastal uses

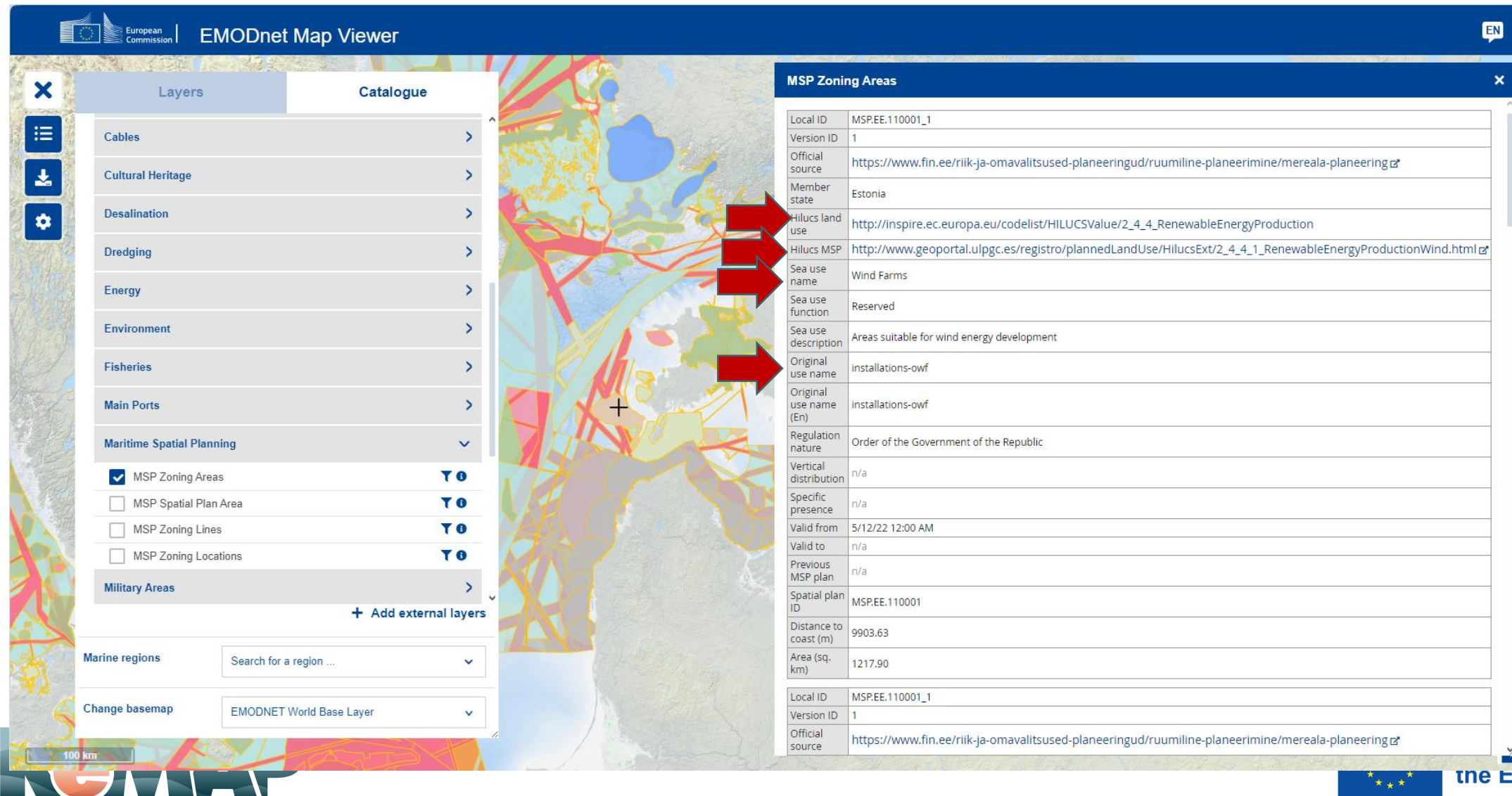
Andrej Abramic

3rd cycle of the TEG, working session, 21.10.2024.



Co-funded by
the European Union

How many code-lists are included in the EMODnet MSP model ?



The screenshot displays the EMODnet Map Viewer interface. On the left, the 'Layers' panel shows a list of categories: Cables, Cultural Heritage, Desalination, Dredging, Energy, Environment, Fisheries, Main Ports, Maritime Spatial Planning, Military Areas, and Marine regions. Under 'Maritime Spatial Planning', 'MSP Zoning Areas' is checked. In the center, a map of the Baltic Sea shows various colored zones. On the right, the 'MSP Zoning Areas' details panel is open, showing metadata for a specific area. Red arrows indicate the flow of information from the layer selection to the map and then to the details panel.

MSP Zoning Areas	
Local ID	MSP.EE.110001_1
Version ID	1
Official source	https://www.fin.ee/riik-ja-omavalitsused-planeeringud/ruumiline-planeerimine/mereala-planeering
Member state	Estonia
Hilucs land use	http://inspire.ec.europa.eu/codelist/HILUCSValue/2_4_4_RenewableEnergyProduction
Hilucs MSP	http://www.geoportal.ulpgc.es/registro/plannedLandUse/HilucsExt/2_4_4_1_RenewableEnergyProductionWind.html
Sea use name	Wind Farms
Sea use function	Reserved
Sea use description	Areas suitable for wind energy development
Original use name	installations-owf
Original use name (En)	installations-owf
Regulation nature	Order of the Government of the Republic
Vertical distribution	n/a
Specific presence	n/a
Valid from	5/12/22 12:00 AM
Valid to	n/a
Previous MSP plan	n/a
Spatial plan ID	MSP.EE.110001
Distance to coast (m)	9903.63
Area (sq. km)	1217.90
Local ID	MSP.EE.110001_1
Version ID	1
Official source	https://www.fin.ee/riik-ja-omavalitsused-planeeringud/ruumiline-planeerimine/mereala-planeering

HILUCS MSP as classification system

**EMODnet Map Viewer**



Layers

Catalogue

Cables

Cultural Heritage

Desalination

Dredging

Energy

Environment

Fisheries

Main Ports

Maritime Space

☒ MSP Zoning Areas

☐ MSP Spatial Planning

☒ MSP Zoning Areas

☒ MSP Zoning Areas

Military Areas

Marine regions

Change basemap

**eHILUCS – extended INSPIRE Land use register Open register of maritime and coastal uses**

subsea carbon capture and storage

ID:

www.geoportal.ulpgc.es/registro/plannedLandUse/HilucsExt/1_3_4_CarbonCapture

Original link:

extended record, no link to original HILUCS

Label:

subsea carbon capture and storage

Description:

Subsea carbon capture and storage

Level:

3

Parent:

mining and quarrying

Siblings:

mining of energy producing materials
mining of metal ores
other mining and quarrying

Childs:

No child found

MSP Zoning Areas

Local ID	MSPDK 7
Version ID	1
Official source	https://havplan.dk/en/page/info
Member state	Denmark
Hilucs land use	http://inspire.ec.europa.eu/codelist/HILUCSValue/6_OtherUses
Hilucs MSP	http://www.geoportal.ulpgc.es/registro/plannedLandUse/HilucsExt/6_OtherUses.html
Sea use name	Other/miscellaneous
Sea use function	Reserved
Sea use description	Areas reserved for CO2-storage
Original use name	Co2-lagring
Original use name (En)	Co2 storage
Regulation nature	Executive order
Vertical distribution	http://www.geoportal.ulpgc.es/registro/plannedLandUse/VerticalDistribution/seaSurfacewater
Specific presence	n/a
Valid from	3/31/21 12:00 AM
Valid to	n/a
Previous MSP plan	n/a
Spatial plan ID	DKMSP
Distance to coast (m)	12582.52
Area (sq. km)	18831.14

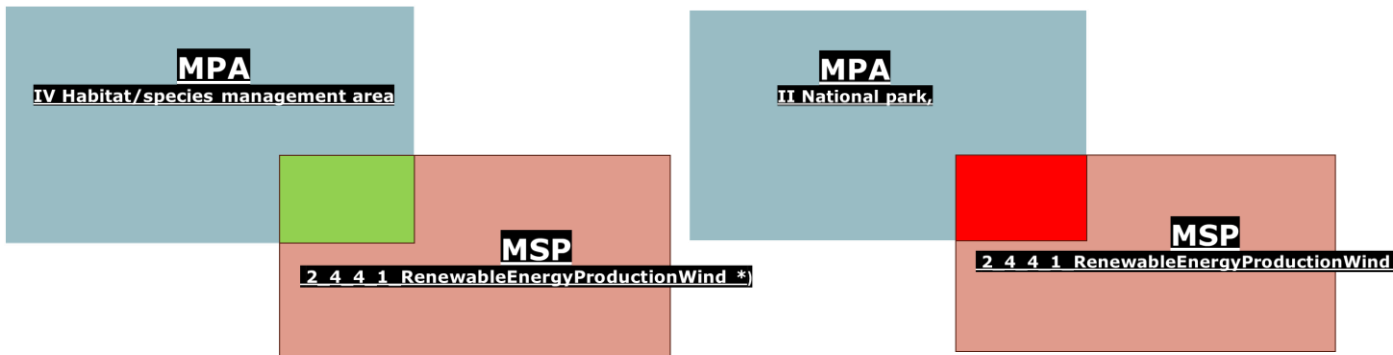


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Register, eHILUCS

<http://www.geoportal.ulpgc.es/registro/plannedLandUse/HilucsExt/>

- It includes specific URL values for marine use, that are providing standardized value within the EMODnet MSP layer;
- URL vs STRING value
 - Renewable ≠ Renewable
 - Convert in capital lett. **RENEWABLE** ≠ **RENEWABLE**
 - relevant for big data sets as EU MSP layer



wind energy facilities



ID:	www.geoportal.ulpgc.es/registro/plannedLandUse/HilucsExt/2_4_4_1_RenewableEnergyProductionWind
Original link:	extended record, no link to original HILUCS
Label:	wind energy facilities
Description:	Points or polygons indicating location of offshore facilities that produce energy from wind.
Level:	4
Parent:	renewable energy production
Siblings:	marine current power facilities ocean thermal energy facilities wave energy facilities tidal energy facilities osmotic power facilities
Childs:	No child found

1_4_2_ProfessionalFishing	Professional fishing
1_4_2_1_FishingLine *	Professional fishing. Gear: fishing line
1_4_2_2_HandLine *	Professional fishing. Gear: hand line
1_4_2_3_Trap *	Professional fishing. Gear: trap
1_4_2_4_BeachTrawl *	Professional fishing. Gear: beach trawl
1_4_2_5_MorayTrap *	Professional fishing. Gear: moray trap
1_4_2_6_TrammelNet *	Professional fishing. Gear: trammel net
1_4_2_7_LiveBait *	Professional fishing. Gear: live bait
1_4_2_8_PoleLine *	Professional fishing. Gear: poleline
1_4_2_9_JiggerFishing *	Professional fishing. Gear: jigger fishing
1_4_2_10_Others *	Professional fishing. Gear: others

Register, eHILUCS

<http://www.geoportal.ulpgc.es/registro/plannedLandUse/HilucsExt/>

- It includes specific values for marine use, that are providing standardized value within the EMODnet MSP layer;
- Can be more specified, if necessary e.g:
 - 2.4.4.1.1 RenewableEnergyProductionWindFixed
 - 2.4.4.1.2 RenewableEnergyProductionWindFloating
- Analysis can be always related to the parent value if necessary e.g.
 - 2_4_4_RenewableEnergyProduction
- Values can be extended also for coastal land use;
- Request from consortium, EMODnet, MS...



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Maritime uses additional mapping:

MPS Label:	Renewable Energy Production Wind
SeaDataNet HA2 ref:	Wind energy facility location
SeaDataNet M12 ref:	Energy generation
SeaDataNet M13 ref:	Renewable energy - wind (excluding cables)
EMODNET Themes ref:	Wind Farms
MSPD Themes ref:	Installations and infrastructures for the exploration, exploitation and extraction of oil, of gas and other energy resources, of minerals and aggregates, and for the production of energy from renewable sources
MSFD Themes ref:	Production of energy
HELCOM code:	installations-owf

Recommended use according IUCN protected area management categories¹

Ia	Strict nature reserve	No
Ib	Wilderness area	No
II	National park	No
III	Natural monument or feature	No
IV	Habitat/species management area	Variable*
V	Protected seascape	Yes
VI	Protected areas with sustainable use of natural resources	Yes

¹ Based on Guidelines for applying the IUCN protected area management categories to marine protected areas (Day et al. 2019)

Additional information in registry

- Mapping with other code lists, including SeaDataNet, EMODnet, HELCOM...
- We can include more classification systems, maybe NUTS or any other classes if necessary



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Additional information in registry

- For each class is included: “Recommended use according IUCN protected area management categories”
- We can add more information e.g.:
 - Pressures related to the activity (CIA, MSFD);
 - Conflicts of marine use with coastal use (LSI);
 - Multi-use, co-use;
 - Recopilated information in the registry with number of topics



wind energy facilities



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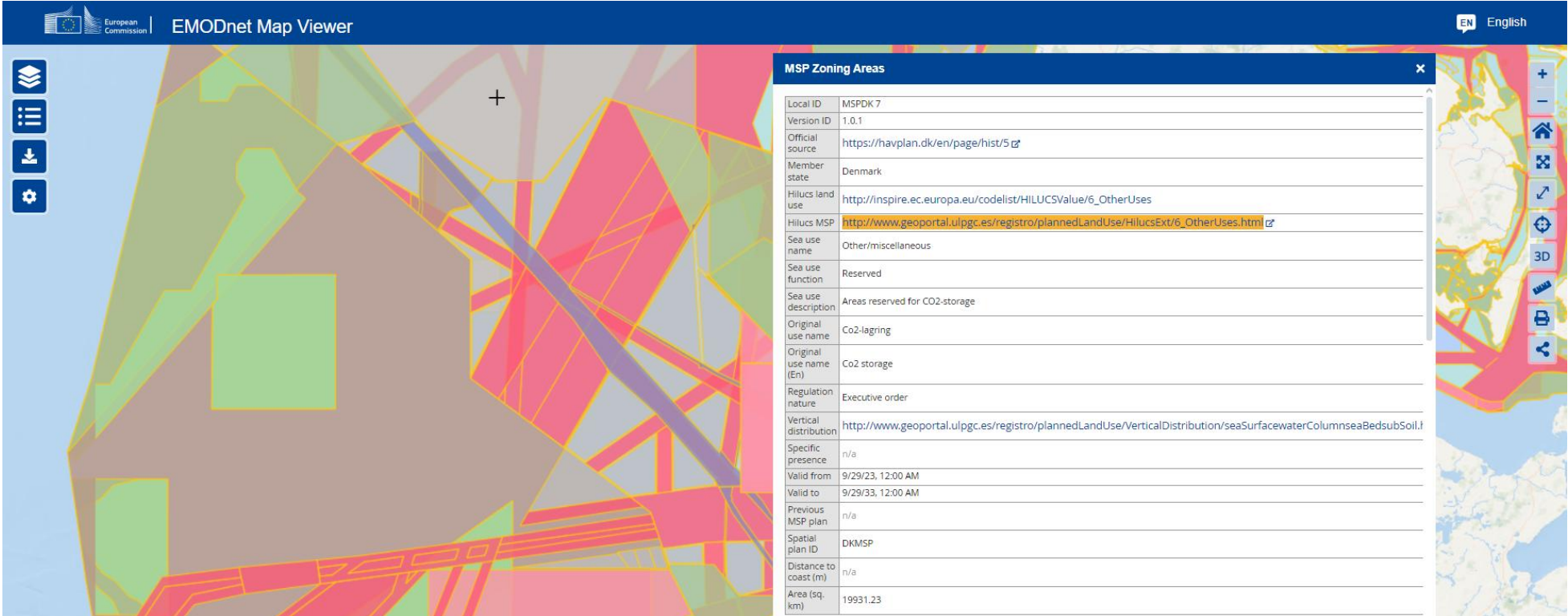
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Working tasks within the TEG 3rd cycle

- Establish a panel 5-6 experts (today);
- Review current version of the EU MSP data layer per marine basin, if all plans have a proper eHILUCS classification (01/01/2025);
- Identify eHILUCS extensions (01/01/2025);



The screenshot displays the EMODnet Map Viewer interface. The main map area shows a complex polygonal zoning of marine basins in various colors (green, yellow, pink, grey). On the left, there is a vertical toolbar with icons for map navigation and settings. On the right, a panel titled "MSP Zoning Areas" provides detailed metadata for a selected area.

MSP Zoning Areas	
Local ID	MSPDK 7
Version ID	1.0.1
Official source	https://havplan.dk/en/page/hist/5
Member state	Denmark
Hilucs land use	http://inspire.ec.europa.eu/codelist/HILUCSValue/6_OtherUses
Hilucs MSP	http://www.geoportal.ulpgc.es/registro/plannedLandUse/HilucsExt/6_OtherUses.html
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Sea use description	Areas reserved for CO2-storage
Original use name	Co2-lagring
Original use name (En)	Co2 storage
Regulation nature	Executive order
Vertical distribution	http://www.geoportal.ulpgc.es/registro/plannedLandUse/VerticalDistribution/seaSurfacewaterColumnseaBedsubSoil/
Specific presence	n/a
Valid from	9/29/23, 12:00 AM
Valid to	9/29/33, 12:00 AM
Previous MSP plan	n/a
Spatial plan ID	DKMSP
Distance to coast (m)	n/a
Area (sq. km)	19931.23

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- Review of the hierarchical structure of the register and make long term changes (workshop 01/03/2025);
- Establish protocol for the management and delivering decisions (workshop 01/03/2025);
- Manage (conceptually) code list, add new values based on the user needs and requests (3rd cycle);
- Propose and discuss what type of the information could be included for each maritime/coastal use (as included information of marine uses and conservation)(3rd cycle)



*Thanks / Gracias / Grazie / Merci
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