

Ecosystem types of Europe 2012 - Marine habitats - version 3 revision 1, Feb. 2019

The data set aims to contribute to a better biological characterization of European marine ecosystems. As such it represents probabilities of EUNIS (European Nature Information System) habitat presence at Level 3 for marine habitats including information on sea ice coverage (this corresponds to EUNIS level 2 for terrestrial habitats).

The map combines spatially explicit data on marine bathymetry and sea-bed with non-spatially referenced habitat information of the EUNIS classification. The objective of the data set produced by EEA and its Topic Centre ETC/ULS is to improve the biological description of marine based ecosystem types and their spatial distribution.

The work supports Target 2 Action 5 of the implementation of the EU Biodiversity Strategy to 2020, established to achieve the Aichi targets of the Convention of Biological Diversity (CBD). It further addresses the MAES process (Mapping and Assessing of Ecosystems and their Services). The data set represents 2 classes of the MAES classification level 3, namely "Marine inlets and transitional waters" and "Marine".

The dataset comprises the following information:

- Sea region (1 – Arctic, 2 – Atlantic, 3 – Baltic, 4 – Mediterranean, 5 – Black Sea)
- Sea zone (1 – Littoral, 2 – Infralittoral, 3 – Circalittoral, 4 – Offshore circalittoral, 5 – Upper bathyal, 6 – Lower bathyal, 7 – Abyssal, 8 - Coastal Lagoons, 9 - Coastal Lagoons)
- Substrate (0 – undetermined substrate, 1 – rock and biogenic, 3 – coarse sediment, 4 – mixed sediment, 5 – sand, 6 – mud)
- Sea ice coverage (0 – no sea ice presence, 1 – seasonal sea ice presence, 2 – perennial sea ice presence)

Simple

Date (Creation)	2018-12-31		
Edition	03.01		
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Point of contact	Organisation name	Individual name	Electronic mail address Role
	European Environment Agency		info@eea.eur info@eea.europa.eu Point of contact
	European Environment Agency		info@eea.eur info@eea.europa.eu Custodian
Maintenance and update frequency	As needed		
GEMET - INSPIRE themes, version 1.0	<ul style="list-style-type: none"> • Habitats and biotopes • Sea regions • Land cover • Oceanographic geographical features 		
Keywords			

Keywords	
Continents, countries, sea regions of the world.	<ul style="list-style-type: none"> • EEA39
GEMET	<ul style="list-style-type: none"> • ecosystem type • habitat • ecosystem • environmental assessment • land cover
Spatial scope	<ul style="list-style-type: none"> • European
EEA Management Plan	<ul style="list-style-type: none"> • 2018 1.7.5
EEA topics	<ul style="list-style-type: none"> • Biodiversity • Land use • Seas and coasts
Use limitation	EEA standard re-use policy: unless otherwise indicated, re-use of content on the EEA website for commercial or non-commercial purposes is permitted free of charge, provided that the source is acknowledged (http://www.eea.europa.eu/legal/copyright). Copyright holder: European Environment Agency (EEA).
Access constraints	Other restrictions
Other constraints	no limitations to public access
Spatial representation type	Grid
Distance	100 m
Language of dataset	English
Topic category	<ul style="list-style-type: none"> • Biota • Environment • Oceans

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Begin date	2012-01-01
End date	2012-12-31
CRS identifier	EPSG:3035
Distribution format	<ul style="list-style-type: none"> • GeoTIFF (1)

OnLine resource

No information provided.

Hierarchy level	Dataset
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Conformance result

Date (Publication)	2010-12-08
Explanation	See the referenced specification

Statement	<p>The process of creation of this dataset is as follows:</p> <p>A – Marine habitats Level 1</p> <ol style="list-style-type: none"> 1. Create Sea mask, Sea Extent and Sea Region extended mask from CLC 2012 v18.5, Europe Seas 2010-2017 (vector 100k) and MSFD marine regions 2017 (vector 100k) <p>B – New EUNIS-crosswalks</p> <ol style="list-style-type: none"> 2. Apply "EUSEAMAP/new EUNIS Crosswalk" to derive EUNIS Level 3 from EUSEAMAP 2017 3. Apply "Geology/new EUNIS Crosswalk" to derive seabed geology from EMODNET <p>C – Continental Shelf (for Mediterranean Region only)</p> <ol style="list-style-type: none"> 4. Derive Mediterranean continental shelf and littoral mask from Continental marine margins, EMODNET bathymetry and Sea Regions extended mask
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D – Marine habitats level 3 separate processing per each of the 5 sea regions

5. Apply Sea Region bathymetry rules to define sea zone

6. Apply Biological zone rules to extract biological zone per each sea region:

- Littoral

- Infralittoral

- Circalittoral

- Offshore Circalittoral

- Upper bathyal

- Lower bathyal

- Abyssal

E – Sea Ice (for Arctic and Baltic only)

7. Apply minimum and maximum Sea Ice extent to derive sea ice coverage for Arctic and Baltic region

F – Final Integration

8. Combine of all EUNIS maps (Cell statistics)

9. Euclidean Allocation for gap filling

10. Adjustment of final extent

H - Transitional habitats

11. Deriving "Estuaries" and "Coastal Lagoons" from CLC Accounting, Riparian Zones and Natura 2000

More information can be found in the ETC/BD Technical Paper 11/2018 "Ecosystem Type Map v3.1-Terrestrial and marine ecosystems" provided with the dataset (Ecosystem_mapping_v3_1.pdf).

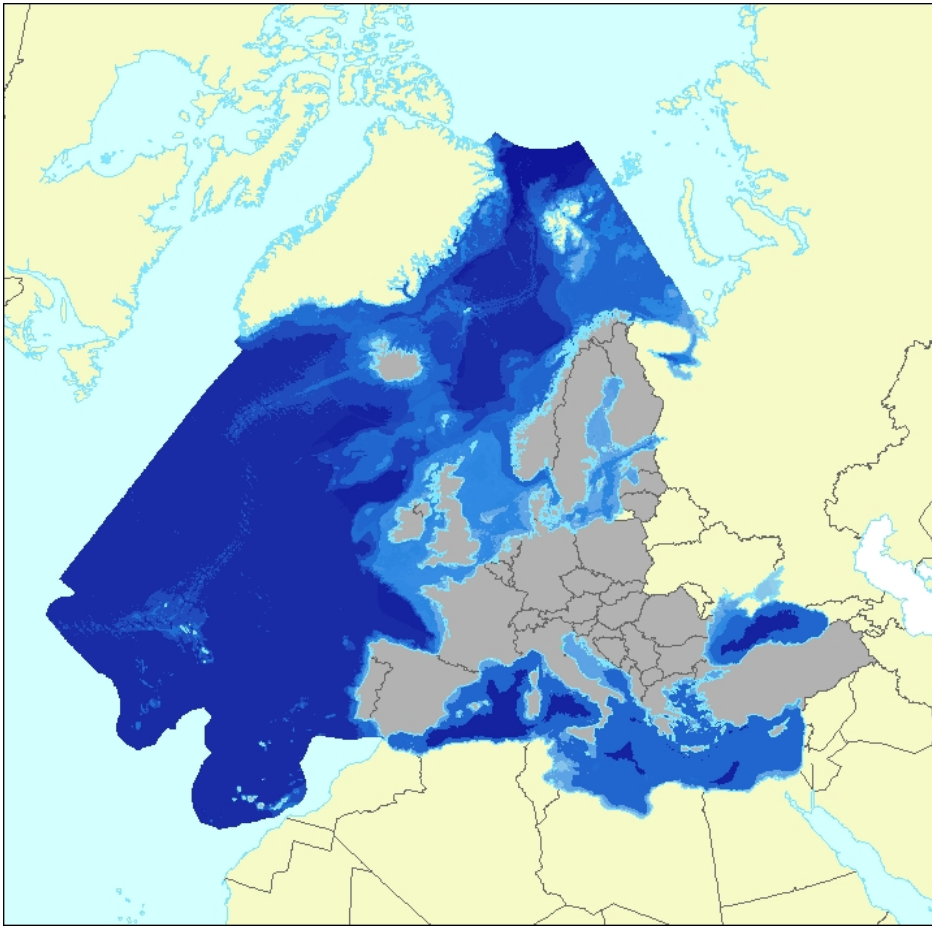
Source

- [Corine Land Cover 2012 \(vector\) - version 18, Sep. 2016](#)
- [Europe's Seas - version 1, Dec. 2018](#)
- [Corine Land Cover 2012 \(raster 100m\) version 18.5 accounting layer, Mar. 2017](#)
- [Natura 2000 - 2012 \(vector\), Nov. 2015](#)

Metadata

File identifier	aa791cf1-ead5-4364-b0c3-4c54dc83c7e4 XML								
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Date stamp	2021-04-26T12:33:19.944Z								
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Metadata standard version	1.0								
Metadata author	<table border="0"><thead><tr><th>Organisation name</th><th>Individual name</th><th>Electronic mail address</th><th>Role</th></tr></thead><tbody><tr><td>European Environment Agency</td><td></td><td>sdi@eea.europa.eu</td><td>Point of contact</td></tr></tbody></table>	Organisation name	Individual name	Electronic mail address	Role	European Environment Agency		sdi@eea.europa.eu	Point of contact
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Overviews



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