

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		
Citation identifier	eea_r_3035_100_m_ecosystem-types-marine_p_2012_v03_r01		
Citation identifier	DAT-146-en		
Point of contact	Organisation name	Individual name	Electronic mail address Website Role
	European Environment Agency		sdi@eea.europa.eu http://www.eea.europa.eu Point of contact
	European Environment Agency		sdi@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 		

	<ul style="list-style-type: none"> • 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	100 100 m
Language of dataset	English
Topic category	<ul style="list-style-type: none"> • Biota • Environment • Oceans

	N		S		E		W
--	---	--	---	--	---	--	---



Begin date	2012-01-01		
End date	2012-12-31		
Coordinate reference system identifier	EPSG:3035		
Distribution format	<ul style="list-style-type: none"> GeoTIFF (1) 		
OnLine resource	Protocol	Linkage	Name
	EEA:FILEPATH	https://sdi.eea.europa.eu/webdav/datastore/public/eea_r_3035_100_m_ecosystem-types-marine_p_2012_v03_r01/eea_r_3035_100_m_etm-marine_2012_v3-1_r00.tif	
	WWW:URL	https://sdi.eea.europa.eu/data/aa791cf1-ead5-4364-b0c3-4c54dc83c7e4	Direct download
	OGC:WMS	https://bio.discomap.eea.europa.eu/arcgis/services/Ecosystem/EcosystemTypeMap_v3_1_Marine/MapServer/WMS/Server?request=GetCapabilities&service=WMS	
	ESRI:REST	https://bio.discomap.eea.europa.eu/arcgis/rest/services/Ecosystem/EcosystemTypeMap_v3_1_Marine/MapServer	
Hierarchy level	Dataset		

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> <p>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

- Apply "EUSEAMAP/new EUNIS Crosswalk" to derive EUNIS Level 3 from EUSEAMAP 2017
- Apply "Geology/new EUNIS Crosswalk" to derive seabed geology from EMODNET

C – Continental Shelf (for Mediterranean Region only)

- Derive Mediterranean continental shelf and littoral mask from Continental marine margins, EMODNET bathymetry and Sea Regions extended mask

D – Marine habitats level 3 separate processing per each of the 5 sea regions

- Apply Sea Region bathymetry rules to define sea zone
- 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)

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

F – Final Integration

- Combine of all EUNIS maps (Cell statistics)
- Euclidean Allocation for gap filling
- Adjustment of final extent

H - Transitional habitats

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

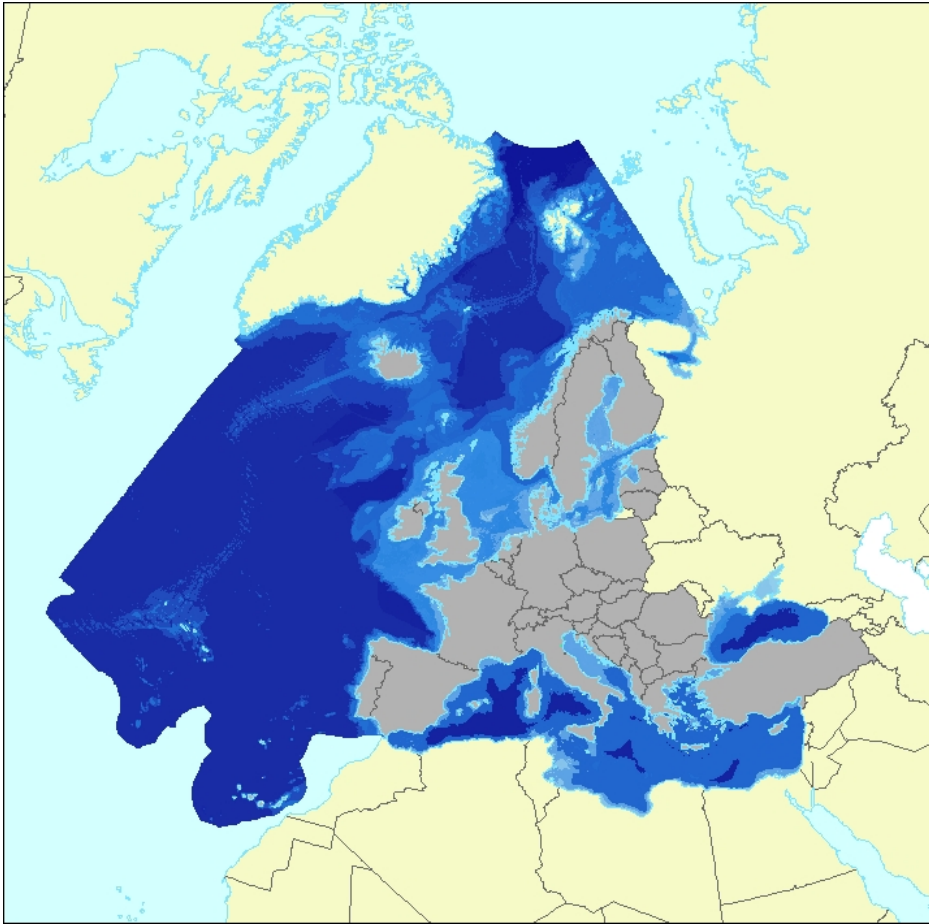
More information can be found in the ETC/BD Technical Paper 11/2018 "Ecosystem Type Map v3.1-Terrestrial and marine ecosystems" provided with the dataset (Ecosystem_mapping_v3_1.pdf).

Source	•
--------	---

Metadata

File identifier	aa791cf1-ead5-4364-b0c3-4c54dc83c7e4 XML								
Metadata language	English								
Character set	UTF8								
Hierarchy level	Dataset								
Date stamp	2021-04-26T12:33:19.944Z								
Metadata standard name	ISO 19115/19139								
Metadata standard version	1.0								
Metadata author	<table border="0"> <tr> <td>Organisation name</td> <td>Individual name</td> <td>Electronic mail address</td> <td>Website Role</td> </tr> <tr> <td>European Environment Agency</td> <td></td> <td>sdi@eea.europa.eu</td> <td>Point of</td> </tr> </table>	Organisation name	Individual name	Electronic mail address	Website Role	European Environment Agency		sdi@eea.europa.eu	Point of
Organisation name	Individual name	Electronic mail address	Website Role						
European Environment Agency		sdi@eea.europa.eu	Point of						

Overviews



Provided by

