

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

The data set aims to contribute to a better biological characterization of terrestrial ecosystems across Europe (EEA-39). As such it represents probabilities of EUNIS (European Nature Information System) habitat presence at Level 2 (this corresponds to EUNIS level 3 for marine habitats).

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

Since it is partly based on non-spatial explicit mapping the spatial and thematic accuracy is not of same quality as delineated maps. For terrestrial habitats the geometric and thematic accuracy is estimated in the reliability map 2012 v3.1 as secondary product.

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 MAES ecosystem typology differentiates three levels and with certain differences follows the EUNIS classification: whereas MAES level 2 the proposal corresponds to EUNIS level 1, MAES level 3 follows closely the EUNIS level 2. A representation of MAES level 2 is contained in the reliability map as secondary product.

### Simple

<b>Date (Creation)</b>	2018-12-31																	
<b>Edition</b>	03.01																	
<b>Citation Identifier</b>	eea_r_3035_100_m_ecosystem-types-terrestrial-c_p_2012_v03_r01																	
<b>Citation identifier</b>	DAT-146-en																	
<b>Point of contact</b>	<table border="1"> <thead> <tr> <th>Organisation name</th> <th>Individual name</th> <th>Electronic mail address</th> <th>Website</th> <th>Role</th> </tr> </thead> <tbody> <tr> <td>European Environment Agency</td> <td></td> <td>sdi@eea.europa.eu</td> <td><a href="http://www.eea.europa.eu">http://www.eea.europa.eu</a></td> <td>Point of contact</td> </tr> <tr> <td>European Environment Agency</td> <td></td> <td>sdi@eea.europa.eu</td> <td><a href="http://www.eea.europa.eu">http://www.eea.europa.eu</a></td> <td>Custodian</td> </tr> </tbody> </table>	Organisation name	Individual name	Electronic mail address	Website	Role	European Environment Agency		sdi@eea.europa.eu	<a href="http://www.eea.europa.eu">http://www.eea.europa.eu</a>	Point of contact	European Environment Agency		sdi@eea.europa.eu	<a href="http://www.eea.europa.eu">http://www.eea.europa.eu</a>	Custodian		
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<b>Maintenance and update frequency</b>	As needed																	
<b>GEMET - INSPIRE themes, version 1.0</b>	<ul style="list-style-type: none"> <li>Land cover</li> <li>Habitats and biotopes</li> </ul>																	
<b>Keywords</b>																		
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<b>Continents, countries, sea regions of the world.</b>	<ul style="list-style-type: none"> <li>EEA39</li> </ul>																	
<b>GEMET</b>	<ul style="list-style-type: none"> <li>ecosystem services</li> <li>ecosystem</li> <li>environmental assessment</li> <li>ecosystem type</li> <li>riparian zone</li> <li>land cover</li> <li>habitat</li> </ul>																	

<b>Spatial scope</b>	<ul style="list-style-type: none"> <li>• <a href="#">European</a></li> </ul>
<b>EEA Management Plan</b>	<ul style="list-style-type: none"> <li>• 2018 1.7.5</li> </ul>
<b>EEA topics</b>	<ul style="list-style-type: none"> <li>• Biodiversity</li> <li>• Land use</li> <li>• Forests and forestry</li> </ul>
<b>Use limitation</b>	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 ( <a href="http://www.eea.europa.eu/legal/copyright">http://www.eea.europa.eu/legal/copyright</a> ). Copyright holder: European Environment Agency (EEA).
<b>Access constraints</b>	Other restrictions
<b>Other constraints</b>	<a href="#">no limitations to public access</a>
<b>Spatial representation type</b>	Grid
<b>Distance</b>	100 100 m
<b>Language of dataset</b>	English
<b>Topic category</b>	<ul style="list-style-type: none"> <li>• Biota</li> <li>• Environment</li> <li>• Inland waters</li> </ul>



<b>Begin date</b>	2012-01-01																	
<b>End date</b>	2012-12-31																	
<b>Coordinate reference system identifier</b>	<a href="#">EPSG:3035</a>																	
<b>Distribution format</b>	<ul style="list-style-type: none"> <li>• GeoTIFF ( 1 )</li> </ul>																	
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<b>Hierarchy level</b>	Dataset																	

## Conformance result

<b>Date (Publication)</b>	2010-12-08
<b>Explanation</b>	See the referenced specification

<b>Statement</b>	<p>In comparison to the Ecosystem Type Map 2006 v2.1, the Ecosystem Type Map 2012 v3.1 shows changes in four specific aspects:</p> <p>a) Changes of the mapping ruleset:</p> <p>The ruleset to translate land cover information from CLC to EUNIS level 2 has been improved to v3.1 based a validation with in-situ vegetation relevés and experience from ETM v2.1. Crosswalks to integrate new datasets of the Copernicus Land Monitoring Service are also based on ruleset v3.1.</p> <p>b) Use of updated datasets:</p> <ul style="list-style-type: none"> <li>• CORINE Land Cover 2012 accounting layer (instead of CLC 2012 status layer)</li> <li>• HRL Forests 2012 (Forest Type, Tree Cover Density)</li> <li>• HRL Imperviousness 2012</li> <li>• OpenStreetMap (OSM) data 2015 (main roads, selected land use information)</li> </ul>
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c) Integration of new available Copernicus data:

- Urban Atlas 2012
- Riparian Zones 2012
- Natura 2000 (N2k) 2012
- HRL Grassland 2012
- HRL Permanent Water Bodies 2012

d) Spatial extension to include Azores

Mapping process:

The basic approach for the ecosystem type mapping is the geographic and thematic refinement of a certain land cover input datasets to translate the original LC information into the EUNIS classification.

The mapping approach is based on four elements:

1. Original Land cover (LC) information to be mapped into EUNIS L2:

- CORINE Land Cover
- Copernicus Local Components: Urban Atlas, Riparian Zones, Natura 2000
- High Resolution Layers (Forest, Imperviousness, Grassland, Permanent Waterbodies)
- OpenStreetMap (Main roads, selected LC classes)

2. Mapping rules based on crosswalks:

Crosswalks provide the information, from what original land cover information EUNIS classes can be derived. The Mapping rules define which (stable and variable) datasets are needed for the refinement and how they have to be classified (setting thresholds) to translate the original LC information into the EUNIS classification.

3. Stable core input datasets

Datasets to be used for the refinement: Environmental zone, potential natural vegetation, altitude etc.

4. Variable input datasets

HRL Imperviousness, HRL Forest (Tree Cover Density)

Each LC input dataset is processed and mapped into EUNIS L2 independently with its own crosswalk. The components are assembled together later in the following order (priority from low to high):

1. CLC 2012 accounting
2. Urban Atlas 2012
3. Riparian Zones 2012
4. Natura 2000 (N2k) 2012
5. HRL Imperviousness 2012
6. OSM land use 2015
7. HRL Grassland 2012
8. HRL Permanent Water Bodies 2012
9. OSM main roads 2015
10. HRL Forest 2012 (Forest Type)

Outputs:

a) Primary output is the actual map representing EUNIS classes on Level 2 with a resolution of 100 x 100 m.

b) The Reliability Map is the secondary output containing geometric & thematic reliability, rule\_ID, data source and MAES L2 classification for each raster cell.

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).

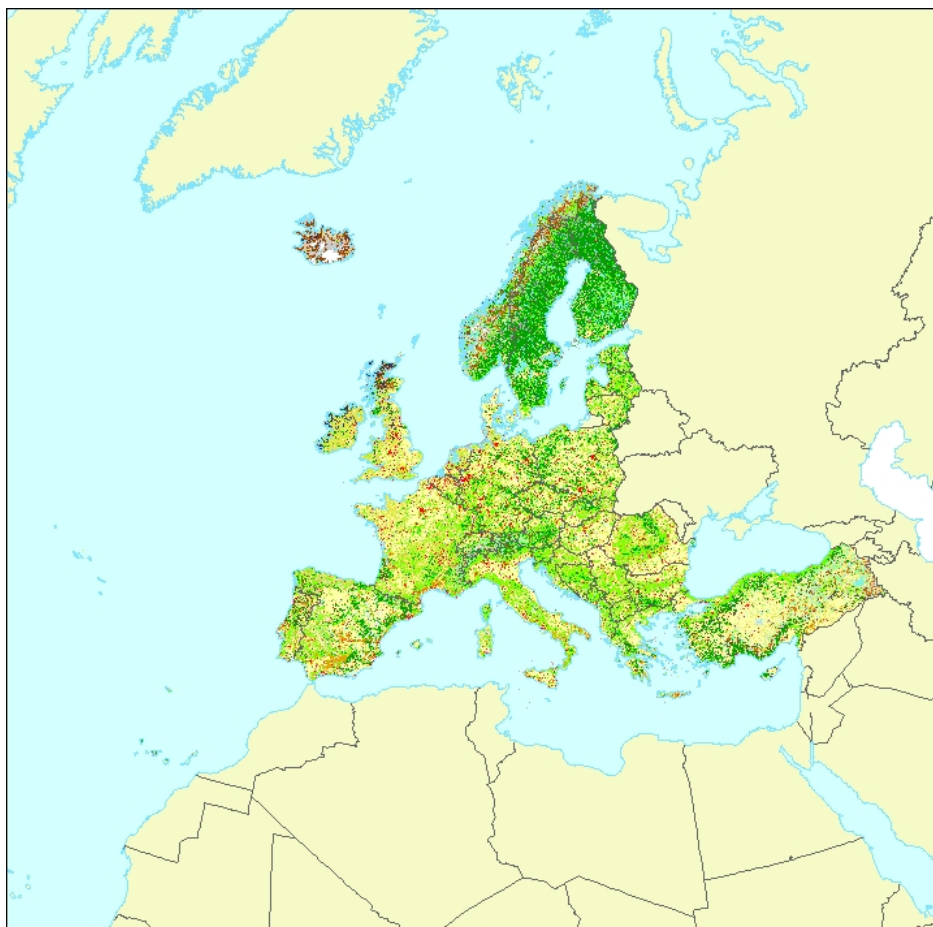
Source

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## Metadata

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<b>Metadata standard version</b>	1.0		
<b>Metadata author</b>	<b>Organisation name</b>	<b>Individual name</b>	<b>Electronic mail address</b> sdi@eea.europa.eu
	European Environment Agency		Point of contact

## Overviews



Provided by

