

## N2K Change 2012-2018 (vector), Europe, 6-yearly, Jul. 2021

This metadata refers to the CLMS N2K Change 2012-2018 product, the Copernicus Land Cover/Land Use (LC/LU) change map tailored to the needs of biodiversity monitoring in selected Natura2000 sites: 4790 sites of natural and semi-natural grassland formations listed in Annex I of the Habitats Directive, including a 2km buffer zone surrounding the sites. The change mapping exercise between the reference years 2012 and 2018, was based on the comparison of VHR satellite data and occurred over an area of 631.800 km<sup>2</sup> across Europe (i.e. EU27, the United Kingdom and Switzerland). The change dataset only shows the areas that have changed between 2012 and 2018 and covers an area of 1.199.652 ha.

LC/LU is extracted from VHR satellite data and other available data. Change detection is based on the analysis of VHR satellite data from the reference years 2012  $\pm$ 2 years and 2018  $\pm$ 1 year.

The production of N2K updates was coordinated by the European Environment Agency (EEA) in the frame of the EU Copernicus programme.

You can read more about the product here: <https://land.copernicus.eu/en/products/n2k/n2k-change-2012-2018>.

### Simple

<b>Date (Creation)</b>	2021-07-16				
<b>Date (Publication)</b>	2021-07-16				
<b>Edition</b>	01.00				
<b>Citation identifier</b>	copernicus_v_3035_10_m_n2k-cha-2012-2018_p_2010-2019_v01_r00				
<b>Code</b>	<a href="https://land.copernicus.eu/geo/metadata/inspire-catalogue/10.2909/2fff6d41-eeb6-430e-8740-090f0d4284a2">10.2909/2fff6d41-eeb6-430e-8740-090f0d4284a2</a>				
<b>Point of contact</b>	<b>Organisation name</b>	<b>Individual name</b>	<b>Electronic mail address</b>	<b>Website</b>	<b>Role</b>
	European Environment Agency		copernicus@eea.europa.eu	<a href="https://land.copernicus.eu">https://land.copernicus.eu</a>	Distributor
	European Environment Agency		copernicus@eea.europa.eu	<a href="https://land.copernicus.eu">https://land.copernicus.eu</a>	Custodian
	European Environment Agency		copernicus@eea.europa.eu	<a href="https://land.copernicus.eu">https://land.copernicus.eu</a>	Point of contact

### Point of contact

No information provided.

<b>Maintenance and update frequency</b>	Continual
<b>GEMET - INSPIRE themes, version 1.0</b>	<ul style="list-style-type: none"> <li>Land cover</li> <li>Protected sites</li> </ul>
<b>Keywords</b>	
<b>Continents, countries, sea regions of the world.</b>	<ul style="list-style-type: none"> <li>United Kingdom</li> <li>Switzerland</li> <li>EU27 (from 2020)</li> </ul>
<b>Keywords</b>	

<b>GEMET</b>	<ul style="list-style-type: none"> <li>• natural area</li> <li>• landscape alteration</li> <li>• protected area</li> <li>• land use</li> <li>• habitat</li> <li>• species</li> <li>• natural areas protection</li> </ul>
<b>Spatial scope</b>	<ul style="list-style-type: none"> <li>• <a href="#">European</a></li> </ul>
<b>EEA topics</b>	<ul style="list-style-type: none"> <li>• Biodiversity</li> <li>• Land use</li> </ul>

## Resource constraints

No information provided.

<b>Access constraints</b>	Other restrictions
<b>Other constraints</b>	<a href="#">no limitations to public access</a>
<b>Use constraints</b>	Other restrictions
<b>Other constraints</b>	<p>Access to data is based on a principle of full, open and free access as established by the Copernicus data and information policy Regulation (EU) No 1159/2013 of 12 July 2013. This regulation establishes registration and licensing conditions for GMES/Copernicus users.</p> <p>Free, full and open access to this data set is made on the conditions that:</p> <ol style="list-style-type: none"> <li>1. When distributing or communicating Copernicus dedicated data and Copernicus service information to the public, users shall inform the public of the source of that data and information.</li> <li>2. Users shall make sure not to convey the impression to the public that the user's activities are officially endorsed by the Union.</li> <li>3. Where that data or information has been adapted or modified, the user shall clearly state this.</li> <li>4. The data remain the sole property of the European Union. Any information and data produced in the framework of the action shall be the sole property of the European Union. Any communication and publication by the beneficiary shall acknowledge that the data were produced "with funding by the European Union".</li> </ol>
<b>Spatial representation type</b>	Vector
<b>Distance</b>	10 m
<b>Language of dataset</b>	English
<b>Character set</b>	UTF8
<b>Topic category</b>	<ul style="list-style-type: none"> <li>• Environment</li> <li>• Imagery base maps earth cover</li> </ul>
<b>Begin date</b>	2010-01-01
<b>End date</b>	2019-12-31



<b>Additional Information</b>	Spatial Resolution information: The Minimum Mapping Width is 10 m		
<b>CRS identifier</b>	<a href="#">EPSG:3035</a>		
<b>Distribution format</b>	<ul style="list-style-type: none"> <li>• GDB ( 1.1 )</li> <li>• Spatialite ( )</li> </ul>		
<b>OnLine resource</b>	<b>Protocol</b>	<b>Linkage</b>	<b>Name</b>
	ESRI:REST	<a href="https://copernicus.discomap.eea.europa.eu/arcgis/rest/services/Natura2000/N2K_Change_2012_2018/MapServer">https://copernicus.discomap.eea.europa.eu/arcgis/rest/services/Natura2000/N2K_Change_2012_2018/MapServer</a>	
	OGC:WMS	<a href="https://copernicus.discomap.eea.europa.eu/arcgis/services/Natura2000/N2K_Change_2012_2018/MapServer/WMServer?request=GetCapabilities&amp;service=WMS">https://copernicus.discomap.eea.europa.eu/arcgis/services/Natura2000/N2K_Change_2012_2018/MapServer/WMServer?request=GetCapabilities&amp;service=WMS</a>	
	WWW:LINK-1.0-http--link	<a href="https://land.copernicus.eu/en/products/n2k/n2k-change-2012-2018#Download">https://land.copernicus.eu/en/products/n2k/n2k-change-2012-2018#Download</a>	Download (requires authentication)
<b>OnLine resource</b>	<b>Protocol</b>	<b>Linkage</b>	<b>Name</b>
	DOI	<a href="https://doi.org/10.2909/2fff6d41-eeb6-430e-8740-090f0d4284a2">https://doi.org/10.2909/2fff6d41-eeb6-430e-8740-090f0d4284a2</a>	
<b>Hierarchy level</b>	Dataset		

## Conformance result

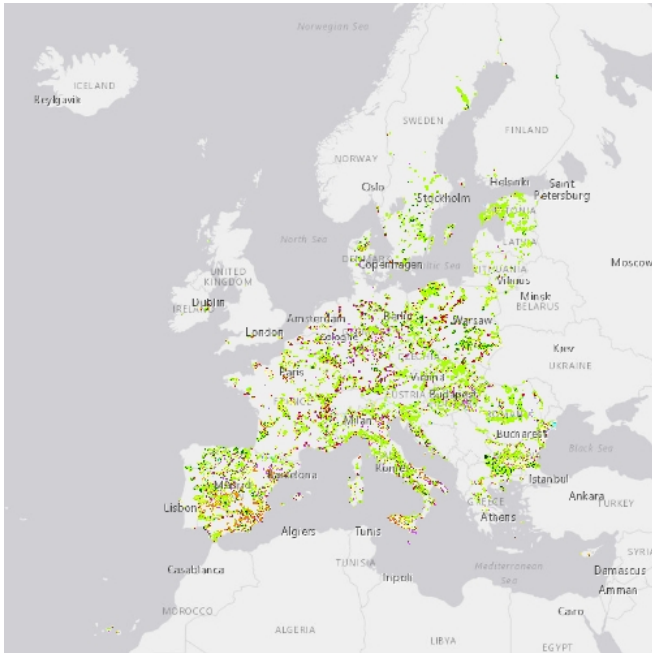
<b>Date (Publication)</b>	2010-12-08
<b>Explanation</b>	See the referenced specification

<b>Statement</b>	<p>Computer assisted change detection of LC/LU between the reference years 2012 and 2018 extracted from VHR satellite data and other available data. The change mapping exercise between the reference years 2012 and 2018, was based on the comparison of VHR satellite data and occurred over an area of 631.800 km<sup>2</sup> across Europe (i.e. within the selected Natura2000 sites and including a 2km buffer zone surrounding those). The change dataset only shows the areas that have changed between 2012 and 2018 and covers an area of 1.199.652 ha. The production of this dataset is the basis for the status map 2018 as well as for the revision of the previous time steps 2012 and 2006.</p> <p>The classification provides 55 distinct thematic classes. The class definitions follow a pre-defined nomenclature based on the Mapping and Assessment of Ecosystems and their Services (MAES) typology of ecosystems (at level 1) and are further harmonised with Corine Land Cover and adapted to the specific characteristics of grasslands habitats (levels 2 to 4). Each change polygon is identified with a change code that shows the initial class and the change class. The Minimum Mapping Unit (MMU) is 0.5 ha and the Minimum Mapping Width (MMW) is 10 m. The positional accuracy is less than 5 m (according to geo-location accuracy of satellite imagery delivered by ESA: less than 5m RMSE). Producer's accuracy assessment approach: stratified random point sampling. Interpretation of sampling points was performed on the best available reference data. The overall accuracy is higher than 80%.</p>
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## Metadata

File identifier	2fff6d41-eeb6-430e-8740-090f0d4284a2 <a href="#">XML</a>		
Metadata language	English		
Character set	UTF8		
Hierarchy level	Dataset		
Date stamp	2024-02-06T16:45:00.994Z		
Metadata standard name	ISO 19115/19139		
Metadata standard version	1.0		
Metadata author	<b>Organisation name</b>	<b>Individual name</b>	<b>Electronic mail address</b> <b>Website Role</b>
	European Environment Agency		sdi@eea.europa.eu      Point of contact

## Overviews



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