



## Forest Type 2015 (raster 20 m), Europe, 3-yearly, Apr. 2018

The high resolution forest product consists of three types of (status) products and additional change products. The status products are available for the 2012, 2015 and 2018 reference years: 1. Tree cover density providing level of tree cover density in a range from 0-100%; 2. Dominant leaf type providing information on the dominant leaf type: broadleaved or coniferous; 3. A Forest type product. The forest type product allows to get as close as possible to the FAO forest definition. In its original (20m) resolution it consists of two products: 1) a dominant leaf type product that has a MMU of 0.5 ha, as well as a 10% tree cover density threshold applied, and 2) a support layer that maps, based on the dominant leaf type product, trees under agricultural use and in urban context (derived from CLC and high resolution imperviousness 2009 data). For the final 100m product trees under agricultural use and urban context from the support layer are removed. The high resolution forest change products comprise a simple tree cover density change product for 2012-2015 (% increase or decrease of real tree cover density changes).

The production of the high resolution forest layers was coordinated by the European Environment Agency (EEA) in the frame of the EU Copernicus programme.

### Simple

<b>Date (Creation)</b>	2018-04-30				
<b>Date (Publication)</b>	2018-04-30				
<b>Citation identifier</b>	copernicus_r_3035_20_m_fty-2015_p_2014-2016_v01_r00				
<b>Code</b>	<a href="https://doi.org/10.2909/ab0e6d0b-699c-473d-bd5e-e5c634c8f99c">10.2909/ab0e6d0b-699c-473d-bd5e-e5c634c8f99c</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 Commission			<a href="https://commission.europa.eu">https://commission.europa.eu</a>	Owner
	Copernicus Land Monitoring Service		copernicus@eea.europa.eu	<a href="https://land.copernicus.eu">https://land.copernicus.eu</a>	Custodian
	European Environment Agency		sdi@eea.europa.eu	<a href="http://www.eea.europa.eu">http://www.eea.europa.eu</a>	Publisher
	Copernicus Land Monitoring Service helpdesk		copernicus@eea.europa.eu	<a href="https://land.copernicus.eu/en/contact-service-helpdesk">https://land.copernicus.eu/en/contact-service-helpdesk</a>	Point of contact
<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></ul>				
<b>Keywords</b>					
<b>Continents, countries, sea regions of the world.</b>	<ul style="list-style-type: none"><li>EEA39</li></ul>				
<b>Keywords</b>					
<b>GEMET</b>	<ul style="list-style-type: none"><li>landscape alteration</li><li>forest management</li><li>land cover</li><li>land use</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>Land use</li><li>Biodiversity</li><li>Forests and forestry</li></ul>				

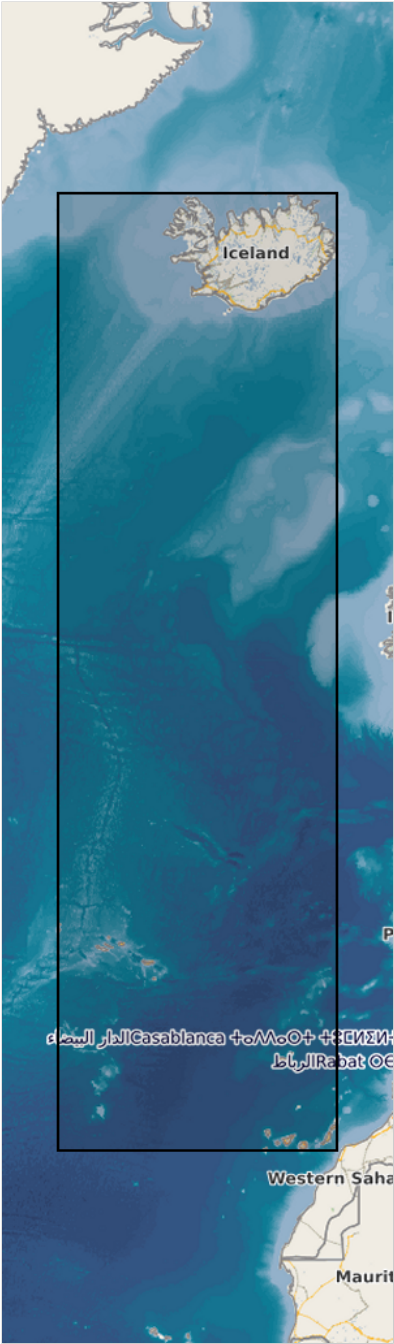
<b>Access constraints</b>	Other restrictions
<b>Other constraints</b>	<a href="#">no limitations to public access</a>
<b>Use constraints</b>	Other restrictions
<b>Other constraints</b>	<p>The Copernicus component is governed by Regulation (EU) No 2021/696 of the European Parliament and of the Council of 28 April 2021 establishing the Union Space Programme and the European Union Agency for the Space Programme and repealing Regulations (EU) No 912/2010, (EU) No 1285/2013 and (EU) No 377/2014 and Decision No 541/2014/EU. Within the Copernicus component, a portfolio of land monitoring activities has been delegated by the European Union to the European Environment Agency (EEA) and the DG Joint Research Centre of the European Commission.</p> <p>The Copernicus land monitoring products and services are made available on a principle of full, open and free access, as established by the Commission Delegated Regulation (EU) No 1159/2013 of 12 July 2013.</p> <p>Free, full and open access to the products and services of the Copernicus Land Monitoring Service is made on the conditions that:</p> <ol style="list-style-type: none"> <li>1. When distributing or communicating Copernicus Land Monitoring Service products and services (data, software scripts, web services, user and methodological documentation and similar) to the public, users shall inform the public of the source of these products and services.</li> <li>2. Where the Copernicus Land Monitoring Service products and services have been adapted or modified by the user, the user shall clearly state this.</li> <li>3. Users shall make sure not to convey the impression to the public that the user's activities are officially endorsed by the European Union.</li> </ol>
<b>Spatial representation type</b>	Grid
<b>Distance</b>	20 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>	2014-01-01
<b>End date</b>	2016-12-31

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<b>Coordinate reference system identifier</b>	<a href="#">EPSG:3035</a>		
<b>Distribution format</b>	<ul style="list-style-type: none"> <li>• GeoTIFF ( 1.0)</li> </ul>		
<b>OnLine resource</b>	<b>Protocol</b>  ESRI:REST  OGC:WMS  WWW:LINK-1.0-http--link	<b>Linkage</b>  <a href="https://image.discomap.eea.europa.eu/arcgis/rest/services/GioLandPublic/HRL_ForestType_2015/MapServer">https://image.discomap.eea.europa.eu/arcgis/rest/services/GioLandPublic/HRL_ForestType_2015/MapServer</a>  <a href="https://image.discomap.eea.europa.eu/arcgis/services/GioLandPublic/HRL_ForestType_2015/MapServer/WMServer?service=WMS&amp;request=GetCapabilities&amp;version=1.3.0">https://image.discomap.eea.europa.eu/arcgis/services/GioLandPublic/HRL_ForestType_2015/MapServer/WMServer?service=WMS&amp;request=GetCapabilities&amp;version=1.3.0</a>  <a href="https://land.copernicus.eu/en/products/high-resolution-layer-forest-type/forest-type-2015#Download">https://land.copernicus.eu/en/products/high-resolution-layer-forest-type/forest-type-2015#Download</a>	<b>Name</b>       HRL Forest Type 2015 20m    Download (requires authentication)
<b>OnLine resource</b>	<b>Protocol</b>  DOI	<b>Linkage</b>  <a href="https://doi.org/10.2909/ab0e6d0b-699c-473d-bd5e-e5c634c8f99c">https://doi.org/10.2909/ab0e6d0b-699c-473d-bd5e-e5c634c8f99c</a>	<b>Name</b>
<b>Hierarchy level</b>	Dataset		

## Conformance result

<b>Title</b>	
<b>Date (Publication)</b>	
<b>Explanation</b>	See the referenced specification

<b>Statement</b>	<p>Semi-automatic classification of pre-processed multitemporal High Resolution (HR) satellite image data (Sentinel-2, Landsat 8) with reference year 2015 (+/- 1 year), using supervised and unsupervised elements, leading to scene-based initial land cover classifications. Performing of a time series analysis to extract tree cover and its dominant leaf type information (broadleaved and coniferous). Subsequently, interactive manual corrections of the derived tree cover mask have been performed and integrated to a seamless mosaic. The thereof derived Dominant Leaf Type (DLT) product has been intersected with the Tree Cover Density (TCD) product considering a 10% density threshold and subsequently filtered with a Minimum Mapping Unit (MMU) of 0.5 ha. The 20m Forest Type product has been finally aggregated to 100m considering the CORINE Land Cover (CLC) definition of broadleaved, coniferous and mixed forest. Trees under agricultural or urban use as provided by the Forest Additional Support Layer (FADSL) have been explicitly excluded to follow the forest definition of the Food and Agriculture Organization (FAO). Geometric accuracy (positioning scale): Less than one pixel according to ortho-rectified satellite image base delivered by ESA. Thematic accuracy: Determined by the accuracy of the source Tree Cover Density and Dominant Leaf Type in 20m spatial resolution.</p> <p>Quality assurance follows the ISO9000 standards for Quality Management and comprises of dedicated procedures of ongoing quality checks (QA breakpoints) during implementation of the production chain, in order to keep persistent control over the various stages of production, assure fitness-for-purpose of the end-products and that all quality requirements are fulfilled. Priority has been given to the target thematic accuracies to be achieved by each product, as well as to the issues of product consistency (spatial, thematic, temporal)</p>
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and homogeneity. Quality Assessment: The quality assessment has been performed according to INSPIRE Data Specifications. The data quality elements considered are:

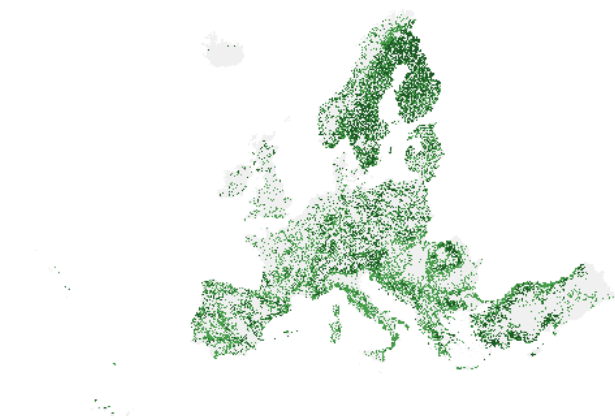
- (i) Completeness,
- (ii) Logical Consistency,
- (iii) Thematic Accuracy,
- (iv) Temporal quality and
- (v) Usability.

Each of them (excl. the Thematic Accuracy hereafter) forms a section in the QA/QC Procedures.

Metadata

File identifier	ab0e6d0b-699c-473d-bd5e-e5c634c8f99c <a href="#">XML</a>		
Metadata language	English		
Character set	UTF8		
Hierarchy level	Dataset		
Date stamp	2024-02-06T16:47:22.631Z		
Metadata standard name	ISO 19115/19139		
Metadata standard version	1.0		
Metadata author	Organisation name	Individual name	Electronic mail addressWebsite Role
	European Environment Agency		sdi@eea.europa.euPoint of contact

Overviews



Provided by

