

Dominant Leaf Type 2018 (raster 10 m), Europe, 3-yearly, Sep. 2020

This metadata refers to the HRL Forest 2018 primary status layer Dominant Leaf Type (DLT). The DLT raster product provides a basic land cover classification with 3 thematic classes (all non-tree covered areas, broadleaved and coniferous) at 10m spatial resolution and covers the full of EEA38 area and the United Kingdom. The production of the High Resolution Forest layers was coordinated by the European Environment Agency (EEA) in the frame of the EU Copernicus programme.

The HRL Forest product consists of 3 types of (status) products and additional change products. The status products are available for 2012, 2015, and 2018 reference years:

1. Tree cover density (TCD) (level of tree cover density in a range from 0-100%)
2. Dominant leaf type (DLT) (broadleaved or coniferous majority)
3. Forest type product (FTY). The forest type product allows to get as close as possible to the FAO forest definition. In its original (10m (2018) / 20m (2012, 2015)) resolution it consists of two products: 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 (now only available on demand), based on the dominant leaf type product, trees under agricultural use and in urban context (derived from CLC and imperviousness 2009 data). For the final 100 m product trees under agricultural use and urban context from the support layer are removed.

NEW for 2018: the 10m 2018 reference year FTY product now also has the agricultural/urban trees removed. In the past this was done only for the 100m product, now it is consistently applied for both the 10m and the 100m FTY products.

This dataset is provided as 10 meter rasters (fully conformant with the EEA reference grid) in 100 x 100 km tiles grouped according to the EEA38 countries and the United Kingdom.

You can find more information about the product here: <https://land.copernicus.eu/en/products/high-resolution-layer-dominant-leaf-type/dominant-leaf-type-2018>.

Simple

Date (Creation)	2020-09-18			
Date (Publication)	2020-09-18			
Edition	01.00			
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Code	10.2909/7b28d3c1-b363-4579-9141-bdd09d073fd8			
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	European Environment Agency		copernicus@eea.europa.eu	https://land.copernicus.eu Distributor
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Point of contact

No information provided.

Maintenance and update frequency	Continual
GEMET - INSPIRE themes, version 1.0	<ul style="list-style-type: none"> Land cover
Keywords	
Continents, countries, sea regions of the world.	<ul style="list-style-type: none"> EEA38 (from 2020) United Kingdom

Keywords	
GEMET	<ul style="list-style-type: none"> • leaf • land cover • forest • landscape alteration • land use • forest management
Spatial scope	<ul style="list-style-type: none"> • European
EEA topics	<ul style="list-style-type: none"> • Agriculture and food • Land use • Biodiversity
Access constraints	Other restrictions
Other constraints	no limitations to public access
Use constraints	Other restrictions
Other constraints	<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"> 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. 2. Users shall make sure not to convey the impression to the public that the user's activities are officially endorsed by the Union. 3. Where that data or information has been adapted or modified, the user shall clearly state this. 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".
Aggregate DatasetIdentifier	47e32c1d-f025-4622-934a-f1b63572609f
Association Type	Cross reference
Aggregate DatasetIdentifier	5afeffa4-ccda-4ef9-a7ef-637cb7310f58
Association Type	Cross reference
Spatial representation type	Grid
Distance	10 m
Language of dataset	English
Character set	UTF8
Topic category	<ul style="list-style-type: none"> • Environment • Imagery base maps earth cover
Begin date	2018-03-01

End date

2018-10-31

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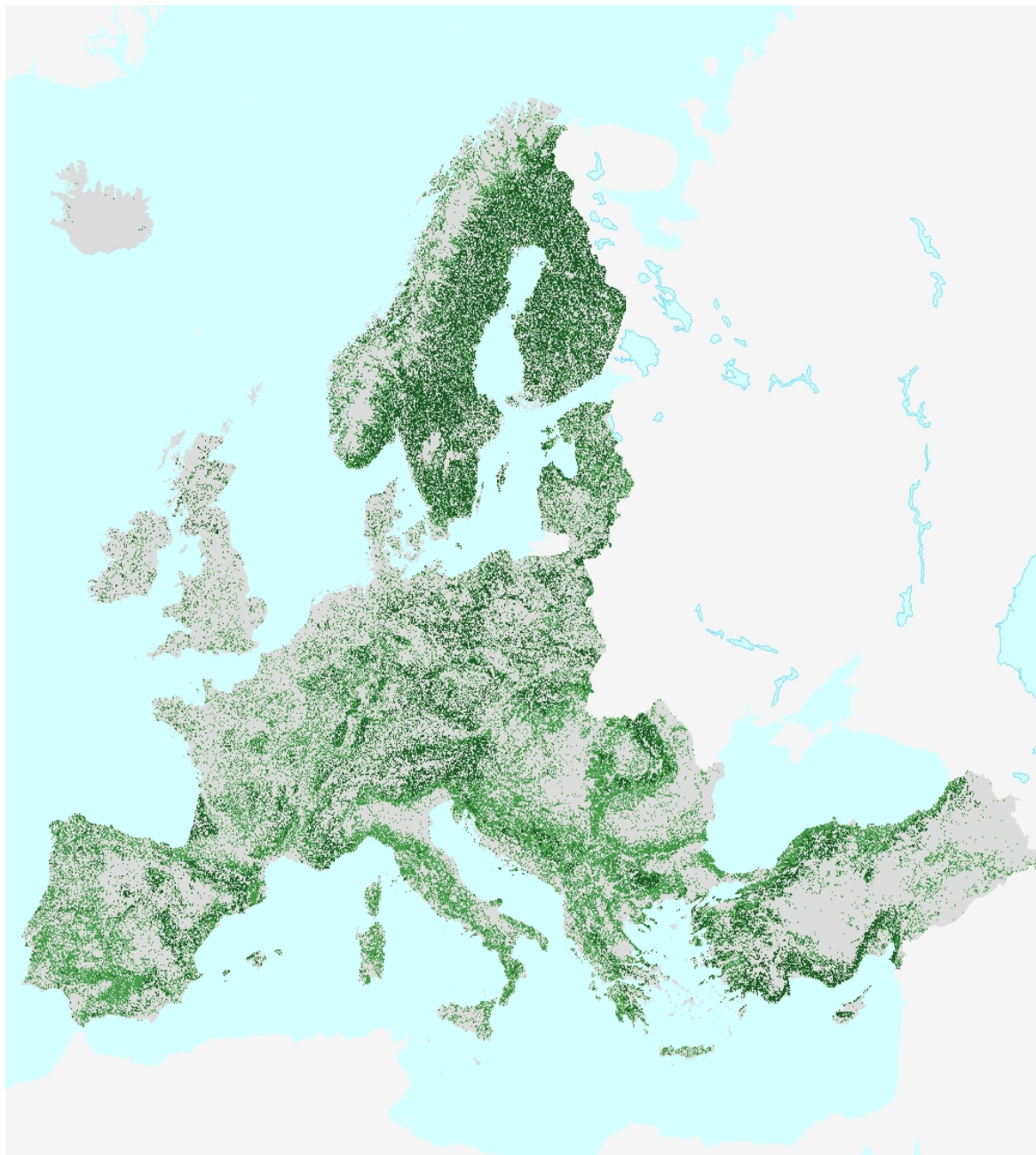
Coordinate reference system identifier	EPSG:3035		
Distribution format	<ul style="list-style-type: none">GeoTIFF (1.0)		
OnLine resource	Protocol ESRI:REST OGC:WMS WWW:LINK-1.0-http--link	Linkage https://copernicus.discomap.eea.europa.eu/arcgis/rest/services/GioLandPublic/HRL_DominanteLeafType_2018/ImageServer https://copernicus.discomap.eea.europa.eu/arcgis/services/GioLandPublic/HRL_DominanteLeafType_2018/ImageServer/WMSServer?request=GetCapabilities&service=WMS https://land.copernicus.eu/en/products/high-resolution-layer-dominant-leaf-type/dominant-leaf-type-2018#Download	Name Download (requires authentication)
OnLine resource	Protocol DOI	Linkage https://doi.org/10.2909/7b28d3c1-b363-4579-9141-bdd09d073fd8	Name
Hierarchy level	Dataset		
Conformance result			
Date (Publication)	2010-12-08		
Explanation	See the referenced specification		
Statement	<p>Hierarchical spatio-temporal classification of time features derived from Sentinel-2A+B time series (Level-2A data) using a Random Forest (RF) classifier with 200 trees. The selected time window ranges from 01-03-2018 to 31-10-2018 and covers the whole reference year 2018. In total, 59 statistical time features have been calculated using more than 138,000 samples, automatically collected from the LUCAS 2018 database and various CLMS products plus additional manual sampling. First, a binary Tree Cover Mask (TCM) with 2 classes (all non-tree covered areas / tree cover) has been generated. Various post-processing steps have been applied in order to improve the quality of the mask (e.g. correction of omission errors caused by the topographic overcorrection within the native Sentinel-2 Level-2A input data). Subsequently, the DLT has been seperately classified within the confines of the Tree Cover Mask. The final product will be accompanied by a series of quality layers (Confidence Layer, Data Score, Layer, Parent Scene Identification Layer).</p> <p>Quality assurance follows the ISO 9001:2015 standards for Quality Management and comprises of dedicated procedures of 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 accuracy to be achieved by each product, as well as to the issues of product consistency (spatial, thematic, temporal) 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) positional accuracy, (iv) Thematic Accuracy, (v) Temporal quality and (vi) Usability.</p> <p>Geometric accuracy (positioning scale): Less than one pixel (10m) according to ortho-rectified satellite image base (Sentinel-2 Level-2A) delivered by ESA.</p> <p>Thematic target accuracy: 90% producer and user accuracy.</p> <p>Validation results DLT: 96.52% overall accuracy with a 95% confidence level applied (broadleaved: 95.62% producer accuracy and 90.21% user accuracy; coniferous: 93.39% producer accuracy and 96.64% user accuracy).</p>		

Thematic accuracy has been assessed using a stratified random sampling approach with 9,695 points (area weighted), visually interpreted using VHR_IMAGE_2018 data and Sentinel-2 time series data, complemented by additional data sources like virtual globes (e.g. Google Earth Pro).

Metadata

File identifier	7b28d3c1-b363-4579-9141-bdd09d073fd8 XML		
Metadata language	English		
Character set	UTF8		
Hierarchy level	Dataset		
Date stamp	2024-02-06T16:45:32.466Z		
Metadata standard name	ISO 19115/19139		
Metadata standard version	1.0		
Metadata author	<div>Organisation name</div> <div>European Environment Agency</div>	<div>Individual name</div>	<div>Electronic mail address</div> <div>sdi@eea.europa.eu</div> <div>Website Role</div> <div>Point of contact</div>

Overviews



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