

Forest Type 2018 (raster 100 m), Europe, 3-yearly, Oct. 2020

The High Resolution Layer (HRL) Forest Type (FTY) 2018 at 100 m spatial resolution is an aggregated version of the FTY layer at 10 m spatial resolution, fully aligned with the EEA reference grid, and provides a forest classification with 3 thematic classes (all non-forest areas / broadleaved forest / coniferous forest). The dataset is provided as a full mosaic covering EEA38 countries 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 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 (derived from the cover density change products comprise a simple tree cover density change product for 2012-2015 (% increase or decrease of real tree cover density changes).

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

Simple

Date (Creation)	2020-10-20						
Date (Publication)	2020-10-20						
Edition	01.00						
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Point of contact	Organisation name European Environment Agency	Individual name	Electronic mail address copernicus@eea. europa.eu	Website https://land. copernicus. eu	Role Distributor		
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No information provided.

Maintenance and update frequency	Continual
GEMET - INSPIRE themes, version 1.0	Land cover
Keywords	
Continents, countries, sea regions of the world.	EEA38 (from 2020)United Kingdom
Keywords	
GEMET	land cover

	land use
	landscape alteration
	forest management
Spatial scope	• European
EEA topics	Land use
	Forests and forestry
	Biodiversity
Access constraints	Other restrictions
Other constraints	no limitations to public access
Use constraints	Other restrictions
Other constraints	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.
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Spatial representation type	Grid
Distance	100 100 m
Language of dataset	English
Character set	UTF8
Topic category	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	• GeoTIFF (1.0)		
OnLine resource	Protocol	Linkage Nai https://land.copernicus.eu/en/products/high-resolution- Dou	ne
	www.elivic-r.o-niiplink	layer-forest-type/forest-type-2018#Download (rec aut	juires hentication)
OnLine resource	Protocol	Linkage	Name
	DOI	https://doi.org/10.2909/db1af59f-f01f-4bd4-830c-f0eb65250	<u>0c1</u>
Hierarchy level	Dataset		

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Conformance result

Date (Publication)	2010-12-08
Explanation	See the referenced specification
Statement	The Forest Type 2018 status layer at 10m spatial resolution is mainly based on the primary status layer Dominant Leaf Type 2018, which was produced by a hierarchical spatio-temporal classification of time features derived from Sentinel-2A+B time series (Level-2A data) using a Random Forest (RF) classifier with 500 trees. The default time window ranges from 01-03-2018 to 31-10-2018 and was adapted to regional conditions where needed. In total, 147 statistical time features have been calculated using more than 500,000 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 dominant leaf type has been separately classified within the confines of the Tree Cover Mask. In order to generate a forest type product following the FAO forest definition, a minimum mapping unit of 0.5 ha has been applied to the initial Tree Cover Mask considering a 10% tree cover density threshold and with all pixels in agricultural and urban context (as provided by the FADSL) removed. Subsequently, filtered non-forest patches smaller the MMU have been filled with the neighbouring leaf type information using a 9x9 circle filter. In case of tree covered pixels smaller 10% TCD being present in those non-forest patches, the original Dominant Leaf Type information is kept. National FTY products are derived through reprojection and might show a broken MMU. For the 100m aggregated layer, the 100m (aggregated) pixel is assigned the class from the corresponding 10m pixels value covering more than 50% (rule-based spatial aggregation). Quality assurance follows the ISO 9001:2015 standards for Quality Management and comprises of dedicated p

Thematic accuracy at pan-European level: determined by the accuracies of the input source layers Dominant Leaf Type, Tree Cover
Density and Forest Additional Support Layer (including CLC 2018 and HRL Imperviousness 2018 data). The thematic accuracy of the
FTY product has not been assessed.

Metadata

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db1af59f-f01f-4bd4-830c-f0eb652500c1 XML			
English			
UTF8			
Dataset			
2024-02-06T16:44:25.711Z			
ISO 19115/19139			
1.0			
Organisation name European Environment Agency	Individual name	Electronic mail address sdi@eea. europa.eu	Website Role Point of contact
	db1af59f-f01f-4bd4-830c-f0eb652500c1 XML English UTF8 Dataset 2024-02-06T16:44:25.711Z ISO 19115/19139 1.0 Organisation name European Environment Agency	db1af59f-f01f-4bd4-830c-f0eb652500c1 XML English UTF8 Dataset 2024-02-06T16:44:25.711Z ISO 19115/19139 1.0 Organisation name Individual name European Environment Agency	db1af59f-f01f-4bd4-830c-f0eb652500c1 XML English UTF8 Dataset 2024-02-06T16:44:25.711Z ISO 19115/19139 1.0 Organisation name Individual name Electronic mail address sdi@eea. europa.eu

Overviews



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