

### Tree Cover Density 2015 (raster 100 m), Europe, 3-yearly, Mar. 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 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

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Point of contact	Organisation name	Individual name	Electronic mail Website Role address		
	European Environment Agency		copernicus@eea. https://land. Distributor copernicus.		
	European Environment Agency		copernicus@eea. europa.eu <u>copernicus.</u> <u>eu</u>		
	European Environment Agency		copernicus@eea. https://land. Point of copernicus. contact		

### Point of contact

No information provided.

Maintenance and update frequency	Continual
GEMET - INSPIRE themes, version 1.0	Land cover
Keywords	
Continents, countries, sea regions of the world.	• EEA39
Keywords	
	forest management
GEMET	• land use
	landscape alteration land cover
Onatial access	
Spatial scope	• <u>European</u>

EEA Management Plan	• 2018 3.6.1		
EEA topics	<ul><li>Land use</li><li>Forests and forestry</li><li>Biodiversity</li></ul>		
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.		
	Free, full and open access to this data set is made on the conditions that:		
	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.		
	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".		
Spatial representation type	Grid		
Distance	100 m		
Language of dataset	English		
Character set	UTF8		
Topic category	Environment Imagery base maps earth cover		
Begin date	2014-01-01		
End date	2016-12-31		

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Coordinate reference system identifier	EPSG:3035		
Distribution format	• GeoTIFF (1.0)		
OnLine resource	Protocol	Linkage	Name
	ESRI:REST	https://image.discomap.eea.europa.eu/arcgis/rest/services /GioLandPublic/HRL_TreeCoverDensity_2015/MapServer	
	OGC:WMS	https://image.discomap.eea.europa.eu/arcgis/services /GioLandPublic/HRL_TreeCoverDensity_2015/MapServer /WMSServer?	0
	WWW:LINK-1.0-httplink	service=WMS&request=GetCapabilities&version=1.3.0 https://land.copernicus.eu/en/products/high-resolution-layer-tree-cover-density/tree-cover-density-2015#Download	Download (requires authentication)
OnLine resource	Protocol	Linkage	Name
	DOI	https://doi.org/10.2909/264d4e20-de6d-4f88-b1be- b592303452af	
Hierarchy level	Dataset		
Conformance result	'		
Date (Publication)	2010-12-08		
Explanation	See the referenced specification		
Statement			

#### Statement

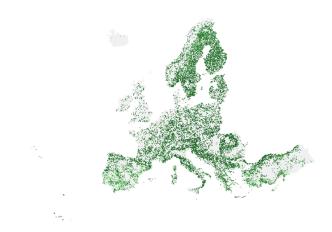
Semi-automatic classification of pre-processed multitemporal High Resolution (HR) satellite image data (Sentinel-2, Landsat 8) with reference year 2015 (+/- 1 year), using supervised and unsupervised elements, leading to scene-based initial land cover classifications. Performing of a time series analysis to extract tree cover. Subsequently, interactive manual corrections of the derived tree cover mask have been performed and integrated to a seamless mosaic. Thereafter a monotemporal, regression-based thematic classification of Tree Cover Density values has been performed on HR\_IMAGE\_2015, Landsat 8 and Sentinel-2 data using the HRL Forest reference products for calibration and validation. Finally, TCD results have been mosaicked to an area wide pan-European TCD dataset, absolutely calibrated (if necessary) and intersected with the derived tree cover mask. Geometric accuracy (positioning scale): Less than one pixel according to ortho-rectified satellite image base delivered by ESA. Thematic accuracy: >90% Overall Accuracy.

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) 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.			
Source	Tree Cover Density 2015 (raster 20 m), Europe, 3-yearly, Mar. 2018			
Metadata				
File identifier	264d4e20-de6d-4f88-b1be-b592303452af XML			
Metadata language	English			
Character set	UTF8			
Hierarchy level	Dataset			
Date stamp	2024-02-06T16:46:59.56Z			
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Metadata standard version	1.0			
Metadata author		Electronic		
	Organisation name Individual name	mail address	Website	Role
	European Environment Agency	sdi@eea. europa.eu		Point of contact

## Overviews



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