EEA geospatial data catalogue

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

Date (Creation)	2018-04-30
Date (Publication)	2018-04-30
Citation identifier	copernicus_r_3035_20_m_fty-2015_p_2014-2016_v01_r00
Code	10.2909/ab0e6d0b-699c-473d-bd5e-e5c634c8f99c

Point of contact

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

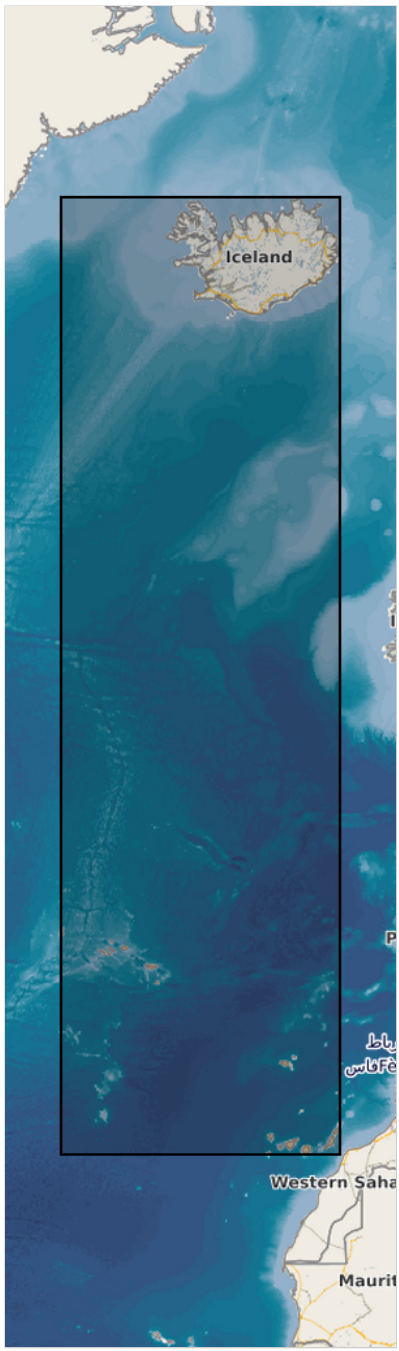
Point of contact

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	
GEMET	• landscape alteration • forest management • land cover • land use
Spatial scope	• European
EEA topics	• Land use • Biodiversity

	• Forests and forestry
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: 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”.
Spatial representation type	Grid
Distance	20 20 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

66.57	N	27.64	S	-13.42	E	-31.27	W



71.19	N	34.56	S	44.82	E	-10.62	W

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_ForestType_2015/MapServer	
OGC:WMS	https://image.discomap.eea.europa.eu/arcgis/services/GioLandPublic/HRL_ForestType_2015/MapServer/WMSServer?service=WMS&request=GetCapabilities&version=1.3.0	HRL Forest Type 2015 20m
WWW:LINK-1.0-http--link	https://land.copernicus.eu/en/products/high-resolution-layer-forest-type/forest-type-2015#Download	Download (requires authentication)

OnLine resource

Protocol	Linkage	Name
DOI	https://doi.org/10.2909/ab0e6d0b-699c-473d-bd5e-e5c634c8f99c	

Hierarchy level	Dataset

Conformance result

Date (Publication)	
Explanation	See the referenced specification

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 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.

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

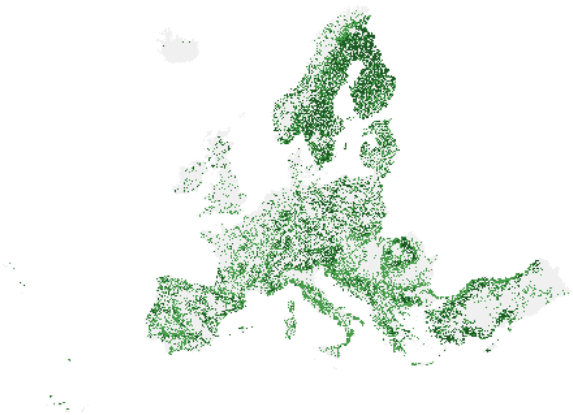
(v) Usability.

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

Metadata

File identifier	ab0e6d0b-699c-473d-bd5e-e5c634c8f99c XML
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 address** / **Website** / **Role** European Environment Agency / / sdi@eea.europa.eu / / Point of contact

Overviews



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