

## Small Woody Features 2015 (raster 5 m), Europe, 3-yearly - Nov. 2019

The HRL Small Woody Features (SWF) is a new Copernicus Land Monitoring Service (CMLS) product, which provides harmonized information on linear structures such as hedgerows, as well as patches (200 m<sup>2</sup> area 5000 m<sup>2</sup>) of woody features across the EEA39 countries.

Small woody landscape features are important vectors of biodiversity and provide information on fragmentation of habitats with a direct potential for restoration while also providing a link to hazard protection and green infrastructure, amongst others. The SWF layer contains woody linear, and small patchy elements, but is not differentiated into trees, hedges, bushes and scrub. The spatial pattern are limited to linear structures and isolated patches (patchy structures) on the basis of geometric characteristics. Additional Woody Features (AWF) are also included in this product. They consist of woody structures that do not fulfil the SWF geometric specifications but which are connected to valid SWFs structures. VHR imagery (DEIMOS-2, Pleiades 1A, Pleiades 1B, GeoEye-1, SPOT 6, SPOT 7, WorldView-2, WorldView-3 images from 2015) made available in the ESA Copernicus DWH are the main data source for the detection of small woody features identifiable within the given image resolution.

The dataset is available for the 2015 reference year and is produced in three different formats. This metadata corresponds to the SWF 5m spatial resolution raster layer, which distinguishes between SWF (code =1) and AWF (code =3) ). This layer is derived from the SWF vector product in order to be more in line with other HR layers, and for allowing raster processing of the results. It describes the SWF landscape according to the high resolution of the input data, but without taking into account the possible small geometric inaccuracy of the vector product (due to VHR geometric imprecision, automatic processing such as smoothing, etc.). The geometric resolution is consistent with the EEA reference grid.

You can read more about the product here: <https://land.copernicus.eu/en/products/high-resolution-layer-small-woody-features/small-woody-features-2015>.

### Simple

Date (Creation)	2019-11-06				
Date (Publication)	2019-11-06				
Date (Revision)	2020-03-04				
Edition	01.00				
Citation identifier	copernicus_r_3035_5_m_swf-2015_p_2014-2016_v01_r00				
Citation identifier	DAT-237-en				
Code	<a href="https://land.copernicus.eu/en/products/high-resolution-layer-small-woody-features/small-woody-features-2015">10.2909/4e92b07d-48b0-4a53-9db2-fd8d07070cc1</a>				
Point of contact	Organisation name	Individual name	Electronic mail address	Website	Role
	European Environment Agency		copernicus@eea.europa.eu	<a href="https://land.copernicus.eu">https://land.copernicus.eu</a>	Distributor
	European Environment Agency		copernicus@eea.europa.eu	<a href="https://land.copernicus.eu">https://land.copernicus.eu</a>	Custodian
	European Environment Agency		copernicus@eea.europa.eu	<a href="https://land.copernicus.eu">https://land.copernicus.eu</a>	Point of contact

### Point of contact

No information provided.

Maintenance and update frequency	Continual
GEMET - INSPIRE themes, version 1.0	<ul style="list-style-type: none"> <li>Land cover</li> </ul>
Keywords	
Continents, countries, sea regions of the world.	<ul style="list-style-type: none"> <li>EEA39</li> </ul>
Keywords	

GEMET	<ul style="list-style-type: none"> <li>• land cover</li> <li>• urban area</li> <li>• sealing</li> <li>• built environment</li> <li>• land use</li> <li>• soil surface sealing</li> <li>• landscape alteration</li> </ul>
<a href="#">Spatial scope</a>	<ul style="list-style-type: none"> <li>• <a href="#">European</a></li> </ul>
EEA Management Plan	<ul style="list-style-type: none"> <li>• 2020 3.6.7</li> </ul>
EEA topics	<ul style="list-style-type: none"> <li>• Biodiversity</li> <li>• Agriculture and food</li> <li>• Land use</li> </ul>
Access constraints	Other restrictions
Other constraints	<a href="#">no limitations to public access</a>
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"> <li>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.</li> <li>2. Users shall make sure not to convey the impression to the public that the user's activities are officially endorsed by the Union.</li> <li>3. Where that data or information has been adapted or modified, the user shall clearly state this.</li> <li>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".</li> </ol>
Spatial representation type	Grid
Distance	5 m
Language of dataset	English
Character set	UTF8
Topic category	<ul style="list-style-type: none"> <li>• Environment</li> <li>• Imagery base maps earth cover</li> </ul>
Begin date	2014-01-01
End date	2016-12-31

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Coordinate reference system identifier	<a href="#">EPSG:3035</a>		
Distribution format	<ul style="list-style-type: none"> <li>GeoTIFF ( 1.0 )</li> </ul>		
OnLine resource	Protocol	Linkage	Name
	OGC:WMS	<a href="https://image.discomap.eea.europa.eu/arcgis/services/GioLandPublic/HRL_SmallWoodyFeatures_2015_005m/ImageServer/WMSServer?request=GetCapabilities&amp;service=WMS">https://image.discomap.eea.europa.eu/arcgis/services/GioLandPublic/HRL_SmallWoodyFeatures_2015_005m/ImageServer/WMSServer?request=GetCapabilities&amp;service=WMS</a>	0
	ESRI:REST	<a href="https://image.discomap.eea.europa.eu/arcgis/rest/services/GioLandPublic/HRL_SmallWoodyFeatures_2015_005m/ImageServer">https://image.discomap.eea.europa.eu/arcgis/rest/services/GioLandPublic/HRL_SmallWoodyFeatures_2015_005m/ImageServer</a>	
	WWW:LINK-1.0-http--link	<a href="https://land.copernicus.eu/en/products/high-resolution-layer-small-woody-features/small-woody-features-2015#Download">https://land.copernicus.eu/en/products/high-resolution-layer-small-woody-features/small-woody-features-2015#Download</a>	Download (requires authentication)
OnLine resource	Protocol	Linkage	Name
	DOI	<a href="https://doi.org/10.2909/4e92b07d-48b0-4a53-9db2-fd8d07070cc1">https://doi.org/10.2909/4e92b07d-48b0-4a53-9db2-fd8d07070cc1</a>	
Hierarchy level	Dataset		

## Conformance result

Date (Publication)	2010-12-08
Explanation	See the referenced specification

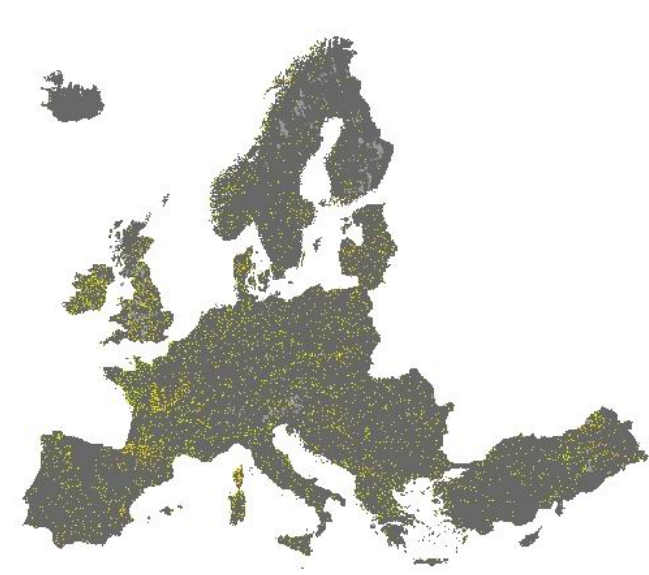
Statement	<p>Supervised classification and visual interpretation of linear and patchy features on pan-sharpened VHR_IMAGE_2015. Small woody landscape features are important vectors of biodiversity and provide information on fragmentation of habitats with a direct potential for restoration while also providing a link to hazard protection and green infrastructure, amongst others (code = 1). Besides, the Minimum Mapping Unit (MMU) for small patches of trees is 200 m² while the Maximum Mapping Unit (MaxMU) is defined by 5000 m². The Minimum Mapping Length (MML) of linear elements is 50 m. There is also an other distinction between this two structures: width (30 m maximum for linear instead of 30 m minimum for patchy). Additional Woody Features (code = 3) consist of woody structures that do not fulfil the SWF geometric specifications but which are connected to valid SWFs structures, as well as patchy structures too large to be considered as valid SWF. No data (code = 254). Out of Large Region limits (code = 255). Tiles NO116 (Southeast Norway) and NO119 (Northeast Norway) have been discontinued and will not be published due to lack of availability of suitable satellite data.</p> <p>Some tiles in the dataset are marked as v. 020. These tiles did first show unsatisfactory results and had to be reprocessed.</p>
Source	<ul style="list-style-type: none"> <li><a href="#">Small Woody Features 2015 (vector), Europe, 3-yearly - Nov. 2019</a></li> </ul>

## Metadata

File identifier	4e92b07d-48b0-4a53-9db2-fd8d07070cc1 <a href="#">XML</a>
Metadata language	English

Character set	UTF8		
Hierarchy level	Dataset		
Date stamp	2024-02-06T16:45:30.977Z		
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



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