

Pan-European Very High Resolution Image Mosaic 2012 - True Colour (2,5 m), June 2015

The pan-European Very High Resolution (VHR) Image Mosaic 2012 provides optical VHR2 (Very High Resolution: > 1m and <= 4m) coverage over Europe.

The surface covered by the image dataset is 7,3 million square kilometres and has a spatial resolution of 2,5 m. The acquisition window of the imagery is January 2011 to December 2013. Images are derived from the following satellite sensors:

- SPOT-5 at 2.5m pan-sharpened
- SPOT-6 at 1.5 m pan-sharpened
- FORMOSAT-2 at 2m pan-sharpened

The mosaic primarily is used as input data in the production of various Copernicus Land Monitoring Service (CLMS) datasets and services, such as land cover maps and high resolution layers on land cover characteristic and can be also useful for CLMS users for visualizations and classifications on land.

The input imagery for the creation of the mosaic is provided by ESA. Due to license restrictions, VHR Image Mosaic 2012 is only available as a web service (WMS), and not for data download.

Simple

Date (Creation)	2015-06-18T00:00:00							
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Point of contact	Organisation name	Individual name	Electronic mail address	Website	Role			
	European Commission			https://commission. europa.eu	Owner			
	Copernicus Land Monitoring Service		copernicus@eea. europa.eu	https://land. copernicus.eu	Custodian			
	European Environment Agency		sdi@eea.europa. eu	http://www.eea. europa.eu	Publisher			
	Copernicus Land Monitoring Service helpdesk		copernicus@eea. europa.eu	https://land. copernicus.eu/en /contact-service- helpdesk	Point of contact			
Maintenance and update frequency	As needed							
GEMET - INSPIRE themes, version 1.0	Orthoimagery							
Keywords								
Keywords								
GEMET	• mosaic							
	environmental policy							
	• general							
	satellite image							
	• raster							

Continents, countries, sea regions of the world.	EEA38 (from 2020)United Kingdom		
Spatial scope	• European		
Temporal resolution	As needed		
EEA topics	Land use		
Access constraints	Other restrictions		
Other constraints	no limitations to public access		
Use constraints	Other restrictions		
Other constraints	The Copernicus component is governed by Regulation (EU) No 2021/696 of the European Parliament and of the Council of 28 April 2021 establishing the Union Space Programme and the European Union Agency for the Space Programme and repealing Regulations (EU) No 912/2010, (EU) No 1285/2013 and (EU) No 377/2014 and Decision No 541/2014/EU. Within the Copernicus component, a portfolio of land monitoring activities has been delegated by the European Union to the European Environment Agency (EEA) and the DG Joint Research Centre of the European Commission.		
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	Free, full and open access to the products and services of the Copernicus Land Monitoring Service is made on the conditions that:		
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	3. Users shall make sure not to convey the impression to the public that the user's activities are officially endorsed by the European Union.		
Spatial representation type	Grid		
Distance	2.5 m		
Language of dataset	English		
Topic category	Environment Imagery base maps earth cover		

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Begin date	2011-01-01			
End date	2013-12-31			
Coordinate reference system identifier	EPSG:3035			
Distribution format	• GeoTIFF()			
OnLine resource	Protocol	Linkage	Name	
	WWW:LINK-1.0-httplink	https://land.copernicus.eu/imagery-in-situ/european-image- mosaics/very-high-resolution/vhr-2012		
	OGC:WMS	https://copernicus.discomap.eea.europa.eu/arcgis/services /GioLand/VeryHighResolution2012/MapServer/WMSServer? request=GetCapabilities&service=WMS		
	WWW:LINK-1.0-httplink		Download (requires authentication)	
OnLine resource	Protocol	Linkage	Name	
	ESRI:REST https://copernicus.discomap.eea.europa.eu/arcgis/rest/services /GioLand/VeryHighResolution2012/MapServer			
Hierarchy level	Dataset			

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Conformance result

Title	Commission Regulation (EU) No 1089/2010 of 23 November 2010 implementing Directive 2007/2/EC of the European Parliament and of the Council as regards interoperability of spatial data sets and services
Date (Publication)	2010-12-08
Explanation	See the referenced specification

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The source data are based mainly on Spot-5 scenes, with additional SPOT-6 scenes over northern Europe, provided by Astrium/Airbus DS. The original SPOT-5 data allow only a display in false-colour band combination due to the missing blue band. For the usage inside a public view services however a natural-colour-like display is strongly preferred. The JRC processed the Core003 source data and created a seamless mosaic with a natural-colour display, calculating the blue band based on the available bands. A cloud-free optimization and histogram equalization were applied for best visual impression in a view service.

The SPOT-5 2,5 m product is constructed out of the 5 m pan and 10 m MS (and 20 m on SWIR) of SPOT-5. It is obtained by merging two separate images, one in panchromatic mode at 2,5 m resolution and the other in three-band multispectral mode at 10-metre resolution. The 2,5 m image is itself generated by merging two 5 m images, for which one of the HRG instruments has to acquire three images simultaneously to produce a 2,5 m colour image. Images thus obtained are like a three-band colour image, with a resolution of 2,5 m and panchromatic viewing geometry.

• Cloud coverage: 5% per NUTS unit, (mostly).

- Without haze
- Seasonal snow
- 1% max saturated pixels.
- 8 bit per pixel

• Maximum Instrument Incidence angle 20° (upon criticality of acquisition success extension to 30° may be added to increase probability of success). L3/Orthorectified with geolocation accuracy <5 m RMSE.

Metadata

2d291b41-9ec8-4bf7-9582-b24c130deffe XML				
English				
UTF8				
Dataset				
2021-11-25T10:36:50.2Z				
ISO 19115/19139				
1.0				
Organisation name European Environment Agency	Individual name	Electronic mail address sdi@eea. europa.eu	Website	Point of contact
	2d291b41-9ec8-4bf7-9582-b24c130deffe XML English UTF8 Dataset 2021-11-25T10:36:50.2Z ISO 19115/19139 1.0 Organisation name European Environment Agency	2d291b41-9ec8-4bf7-9582-b24c130deffe XML English UTF8 Dataset 2021-11-25T10:36:50.2Z ISO 19115/19139 1.0 Organisation name European Environment Agency	2d291b41-9ec8-4bf7-9582-b24c130deffe XML English UTF8 Dataset 2021-11-25T10:36:50.2Z ISO 19115/19139 1.0 Electronic mail address European Environment Agency	2d291b41-9ec8-4bf7-9582-b24c130deffe XML English UTF8 Dataset 2021-11-25T10:36:50.2Z ISO 19115/19139 1.0 Organisation name Individual name mail address sdi@eea. europa.eu

Overviews



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