

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

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Date (Publication)	2015-06-18T00:00:00				
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Point of contact

No information provided.

Maintenance and update frequency	As needed
GEMET - INSPIRE themes, version 1.0	<ul style="list-style-type: none"> • Orthoimagery
Keywords	
Keywords	
GEMET	<ul style="list-style-type: none"> • mosaic • environmental policy • general • satellite image

	<ul style="list-style-type: none"> • raster
Continents, countries, sea regions of the world.	<ul style="list-style-type: none"> • EEA38 (from 2020) • United Kingdom
Spatial scope	<ul style="list-style-type: none"> • European
Temporal resolution	<ul style="list-style-type: none"> • As needed
EEA topics	<ul style="list-style-type: none"> • Land use
Access constraints	Other restrictions
Other constraints	Public access limited according to Article 13(1)(e) of the INSPIRE Directive
Use constraints	Other restrictions
Other constraints	<p>This dataset is based on inputs from several Copernicus Contributing Missions. Hence, the following license conditions apply: ESA-User license for the use of Copernicus Contributing Missions data - Data Warehouse phase 2 (2014-2020):</p> <p>https://spacedata.copernicus.eu/documents/20126/0/CSCDA_ESA_User_Licence_last_uploaded_2020_02_10.pdf/b879907e-bd00-688e-bf42-bf27a00d70cb?t=1581335391752</p>
Spatial representation type	Grid
Distance	2.5 2.5 m
Language of dataset	English
Topic category	<ul style="list-style-type: none"> • Environment • Imagery base maps earth cover



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-http--link	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/WMS/Server?request=GetCapabilities&service=WMS	
	WWW:LINK-1.0-http--link		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		

Conformance result

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

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

File identifier	2d291b41-9ec8-4bf7-9582-b24c130deffe XML		
Metadata language	English		
Character set	UTF8		
Hierarchy level	Dataset		
Date stamp	2021-11-25T10:36:50.2Z		
Metadata standard name	ISO 19115/19139		
Metadata standard version	1.0		
Metadata author	Organisation name	Individual name	Electronic mail addressWebsite Role
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Overviews



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