



Copernicus Land Monitoring Service

Product Portfolio and Data Access



Overview of Submodule Contents

a) Information about Copernicus Land Monitoring Service (CLMS) products

- The three components: Global, Pan-European, Local
- Access to specific products
- Product specifications and characteristics
- Usage of the CLMS Web Map Service (WMS)
- Additional information (Publications, Technical Library, etc.)

b) Download Copernicus products, e.g. for further analysis

- User registration and product download
- Integration of the Web Map Service into a GIS environment



Land
Monitoring

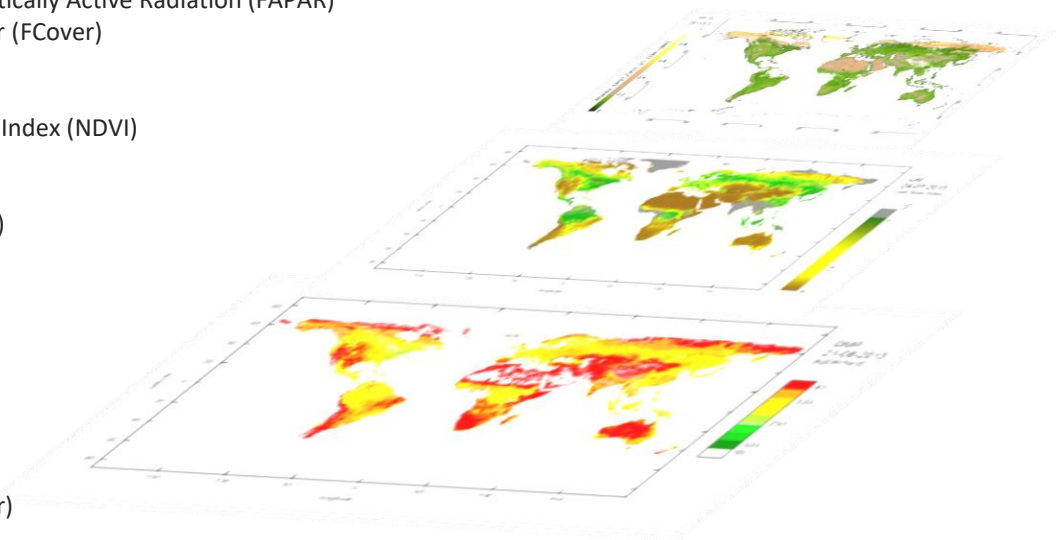
Global Component

- Series of bio-geophysical products
 - addressing status and evolution of land surface at global scale
 - with focus on monitoring Vegetation, Water and Energy & Cryosphere
- at medium/low spatial resolution (e.g. 300m-1 km)
- at high temporal frequency (every ten days)
- coordinated by Joint Research Centre (JRC)



Bio-geophysical Products of Global Land Surface

- **Vegetation**
 - Burnt Area (BA)
 - Dry Matter Productivity (DMP)
 - Fraction of Absorbed Photosynthetically Active Radiation (FAPAR)
 - Fraction of green Vegetation Cover (FCover)
 - Leaf Area Index (LAI)
 - Land Cover
 - Normalized Difference Vegetation Index (NDVI)
 - Soil Water Index
 - Vegetation Condition Index (VCI)
 - Vegetation Productivity Index (VPI)
- **Cryosphere**
 - Lake Ice Extent
 - Snow Cover Extent
 - Snow Water Equivalent
- **Energy**
 - Land Surface Temperature (LST)
 - Surface Albedo (SA)
 - Top Of Canopy Reflectances (TOC-r)
- **Water**
 - Water Bodies (WB)
 - Water Level
 - Lake Surface Water Temperature
 - Lake Water Quality





Pan-European (Continental) Component

- Land cover/land use products at European extent
 - CORINE Land Cover (1990, 2000, 2006, 2012, 2018 upcoming)
 - High Resolution Layers (2012; 2015; 2018 planned)
- Image mosaics and reference data at European scale
 - Image Mosaics (2000, 2006, 2009, 2012)
 - Reference Data: EU-DEM, EU-Hydro
- allowing to monitor status, changes, developments, trends
- high spatial resolution (e.g. 20 m, 2018: 10m)
- regular update cycle of three/six years
- coordinated by the European Environment Agency (EEA)



Local Component

- monitoring hot spots of human activity and biodiversity
 - Urban Atlas (2006, 2012)
 - Riparian Zones (2012, 2018 planned)
 - Natura2000 (2006, 2012)
- Land cover/land use information with very detailed class nomenclatures (up to 65 classes)
- Based on very high spatial resolution pan-European satellite coverages (2012: 1.5m - 2.5m; 2015: < 1m; 2018 planned: 2-4m)
- Regular product update cycle of six years
- Coordinated by the European Environment Agency (EEA)



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CLMS Portfolio and Data Access

Copernicus - The Europe... x +

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Global Pan-European Local Reference data FAQ

Copernicus is an European system for monitoring the Earth. Data is collected by different sources, including Earth observation satellites and in-situ sensors. The data is processed and provides reliable and up-to-date information about six thematic areas: land, marine, atmosphere, climate change, emergency management and security. The land theme is divided into four main components:

- Global**
provides a series of bio-geophysical products on the status and evolution of the land surface at global scale at mid and low spatial resolution
- Pan-European**
provides information about the land cover and land use (LC/LU), land cover and land use changes and land cover characteristics
- Local**
focuses on different hotspots, i.e. areas that are prone to specific environmental challenges and problems
- Reference data**
All of the Copernicus services need access to in-situ data in order to ensure an efficient and effective use of Copernicus space-borne data

Global

The Global Land Service routinely provides a series of global scale bio-geophysical products on the status and evolution of the land surface, at mid and low spatial resolution. The products are used to monitor the vegetation, the water cycle, the energy budget and the cryosphere. [Read more](#)

<http://land.copernicus.eu/>



Global Pan-European Local Reference data FAQ

CLC 2012 Print

Map View Metadata **Download**

The current CLC 2012 version is v.18.5.1, which covers all EEA39 countries. For details click [here](#).

Corine Land Cover products are available in both raster (100 and 250 meter resolution), and vector (ESRI and SQLite geodatabase). The Minimum Mapping Unit (MMU) for the CLC is 25 hectares for areal phenomena and 100 meter for linear phenomena. The time series (1990, 2000, 2006 and 2012) are complemented by change layers, which highlight changes in land cover with an MMU of 5 ha. If you are interested in changes between two surveys always use the CLC-Change layer, as this has a higher resolution than the status layer. Results can be filtered by using the search box.

Please [login](#) in order to download data.

Show entries

Name	Year	Type	Format	Version	Size
Corine Land Cover - 250m	2012	Raster	250m GeoTIFF	18.5.1	31.9 MB
Corine Land Cover - Spatialite	2012	Vector	SQLite Database	18.5.1	2.5 GB
Corine Land Cover - 100m	2012	Raster	100m GeoTIFF	18.5.1	116.3 MB
Corine Land Cover - ESRI FGDB	2012	Vector	ESRI Geodatabase	18.5.1	1.8 GB

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