

Copernicus Land Monitoring Service

Product Portfolio and Data Access





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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



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land

Monitoring

Global Component

- Series of bio-geophysical products
 - adressing 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. 1 km)
- at high temporal frequency (every ten days)
- coordinated by Joint Research Centre (JRC)

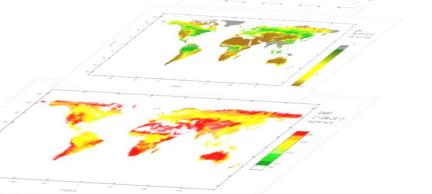
Land Monitoring

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





Monitoring

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 in production)
- 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)
- 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 80 classes)
- very high spatial resolution (2012: 1.5m 2.5m; 2015: < 1m)
- regular update cycle of six years
- coordinated by the European Environment Agency (EEA)











Space

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Thanks for your Attention





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