EEA geospatial data catalogue

Dry Matter Productivity 1999-2020 (raster 1 km), global, 10-daily - version 2

Dry matter Productivity (DMP) is an indication of the overall growth rate or dry biomass increase of the vegetation and is directly related to ecosystem Net Primary Productivity (NPP), however its units (kilograms of gross dry matter per hectare per day) are customized for agro-statistical purposes. Compared to the Gross DMP (GDMP), or its equivalent Gross Primary Productivity, the main difference lies in the inclusion of the autotrophic respiration. Like the FAPAR products that are used as input for the GDMP estimation, these GDMP products are provided in Near Real Time, with consolidations in the next six periods, or as offline product.

Simple

Identification info

Date (Creation)	2018-01-10
Date (Publication)	2018-01-10
Edition	2
Edition date	2018-03-13T00:00:00
Citation identifier	clms_r_4326_1_km_dmp-10daily-global_p_1999-2020_v2_r00
Citation identifier	clms_global_dmp_1km_v2_10daily

Identifier

Code	10.2909/c8cf5bec-83e9-4e27-8c13-80f74a89bd0c
Other citation details	https://land.copernicus.eu/en/products/vegetation/dry-matter-productivity-v2-0-1km
Purpose	This product is first designed to fit the requirements of the Global component of Land Service of the Copernicus programme. It can be also useful for all applications related to the environment monitoring.
Credit	DMP products were generated by the Global Land Service of Copernicus, the Earth Observation programme of the European Commission. The research leading to the current version of the product has received funding from various European Commission Research and Technical Development programs. The product is based on PROBA-V 1km data (copyright ESA, BELSPO and distribution by VITO).

Point of contact

Organisation	Individual	Electronic mail address	Website	Role
European Commission			https://commission.europa.eu	Owner
Copernicus Land Monitoring Service		JRC-Copernicus-Land@ec.europa.eu	https://land.copernicus.eu	Custodian
European Commission's Joint Research Centre			https://joint-research-centre.ec.europa.eu/	Publisher
Copernicus Land Monitoring Service helpdesk		JRC-Copernicus-Land@ec.europa.eu	https://land.copernicus.eu/en/contact-service-helpdesk	Point of contact

Spatial representation type	Grid

Spatial resolution

Spatial resolution	0.0089285714 deg

Topic category	• Imagery base maps earth cover • Biota • Farming • Environment

Extent

80.00	N	-60.00	S	180.00	E	-180.00	W

Extent

Temporal extent

Time period	10-daily composite dekad 1999-01-01T00:00:00 2020-06-30T23:59:59
Maintenance and update frequency	As needed
mmi:updateScope	Series

Resource format

Title	netCDF
Alternate title	Network Common Data Form
Date	
Edition	4
EEA topics	• Agriculture and food
Spatial scope	• Global
Continents, countries, sea regions of the world.	• World
GEMET - INSPIRE themes, version 1.0	• Orthoimagery
GEMET	• agricultural production
Theme	• dry matter • crops • primary productivity
Place	• GLOBE
Temporal	• Dekad • 10-daily composite

Resource constraints

Access constraints	Other restrictions
Other constraints	no limitations to public access

Resource constraints

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. The Copernicus land monitoring products and services are made available on a principle of full, open and free access, as established by the Commission Delegated Regulation (EU) No 1159/2013 of 12 July 2013. Free, full and open access to the products and services of the Copernicus Land Monitoring Service is made on the conditions that: 1. When distributing or communicating Copernicus Land Monitoring Service products and services (data, software scripts, web services, user and methodological documentation and similar) to the public, users shall inform the public of the source of these products and services. 2. Where the Copernicus Land Monitoring Service products and services have been adapted or modified by the user, the user shall clearly state this. 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.
Language	English
Character encoding	UTF8

Content Information

Attribute description	Values with bitwise encoded quality information
Radiometric calibration data availability	true

Distribution Information

Distribution format	• netCDF
Fees	Free for HTTP download and EUMETCast; cost of medium by DvD or tape
Ordering instructions	Products can be downloaded online via HTTP or can be received through EUMETCast satellite reception in Europe, Africa and Latin-America.
Units of distribution	Per product
OnLine resource	
OnLine resource	OGC WMTS
OnLine resource	Copernicus Data Space Ecosystem download services
Units of distribution	Per product
OnLine resource	Copernicus Browser

Data quality info

Hierarchy level	Dataset

Report

Result

Title	Validation results conform CEOS LPV guidelines
Date (Publication)	2010-12-01
Explanation	https://land.copernicus.eu/en/technical-library/product-quality-assessment-report-dry-and-gross-dry-matter-productivity-version-2/
Pass	1

Report

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	This data set is conformant with the INSPIRE Implementing Rules for the interoperability of spatial data sets and services
Pass	true

Report

Result

Title	INSPIRE Data Specification on orthoimagery - Guidelines
Date (Publication)	2010-04-26
Explanation	See the referenced specification
Pass	true

Resource lineage

Statement	As described by Monteith (1972), DMP is estimated from a combination of temperature information and solar radiation information derived from EO satellite data. This version uses the temporally smoothed, gap-filled FAPAR 1km version 2 products as input, together with 0.25 degree temperature data and biome-specific Land Use Efficiency (LUE) values that are calibrated using flux tower measurements.
Hierarchy level	Dataset

Spatial representation info

Number of dimensions	2
Dimension name	Row
Dimension size	15680
Resolution	0.0089285714
Dimension name	Column
Dimension size	40320
Resolution	0.0089285714
Cell geometry	Area

Transformation parameter availability	false
Check point availability	true
Check point description	Upperleft corner tiepoint
Description	Upperleft corner tiepoint
Identifier	upperLeftTiePoint
Name	Tie Point in upper left corner
Pixel orientation code	

Reference System Information

Reference System Information

Code	EPSG:4326

Maintenance and update frequency	As needed

Metadata

Metadata identifier	c8cf5bec-83e9-4e27-8c13-80f74a89bd0c
Language	English
Character encoding	UTF8
Contact	**Organisation** / **Individual** / **Electronic mail address** / **Website** / **Role** Copernicus Land Monitoring Service / / JRC-Copernicus-Land@ec.europa.eu / https://land.copernicus.eu / Point of contact

Type of resource

Resource type	Dataset

Metadata linkage	https://sdi.eea.europa.eu/catalogue/srv/api/records/c8cf5bec-83e9-4e27-8c13-80f74a89bd0c
Date info (Creation)	2024-12-17T06:50:39.182089Z
Date info (Revision)	2025-10-09T11:14:33.019412Z

Metadata standard

Title	ISO 19115/19139
Edition	1.0

Overviews

Dry Matter Productivity, June 2019