



High Resolution Vegetation Phenology and Productivity: Leaf Area Index (raster 10m) version 1 revision 1, Sep. 2021

This metadata refers to the Leaf Area Index (LAI) dataset, one of the near real-time (NRT) Vegetation Index products of the pan-European High Resolution Vegetation Phenology and Productivity (HR-VPP), component of the Copernicus Land Monitoring Service (CLMS).

The Leaf Area Index (LAI) is defined as half the total area of green elements of the canopy per unit horizontal ground area.

The satellite-derived value corresponds to the total green LAI of all the canopy layers, including the understory which may represent a very significant contribution, particularly for forests.

The LAI dataset is made available as raster files with 10 x 10m resolution, in UTM/WGS84 projection corresponding to the Sentinel-2 tiling grid, for those tiles that cover the EEA38 countries and the United Kingdom and for the period from October 2016 until today, with daily updates.

Each file has an associated quality indicator (QFLAG2) to assist users with the screening of clouds, shadows from clouds and topography, snow and water surfaces.

Simple

Identification info

Date (Publication)	2021-09-02				
Date (Creation)	2021-09-02				
Edition	01.01				
Citation identifier	copernicus_r_utm-wgs84_10_m_hrvpp-vi-lai_p_2016-now_v01_r01				
Status	Superseded				
Point of contact	Organisation	Individual	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
Spatial representation type	Grid				

Spatial resolution

Spatial resolution	10 m
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Topic category	• Environment • Imagery base maps earth cover • Climatology, meteorology, atmosphere
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Extent



Extent

Temporal extent

Time period	2016-10-01
Maintenance and update frequency	Continual
GEMET - INSPIRE themes, version 1.0	• Orthoimagery • Land cover
GEMET	• leaf • plant ecology • remote sensing • land • vegetation • index • plant production
Spatial scope	• European
Temporal resolution	• Daily
Continents, countries, sea regions of the world.	• United Kingdom • EEA38 (from 2020)
EEA topics	• Biodiversity • Land use • Agriculture and food

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.

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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.

Associated resource

Association Type	Cross reference
Metadata Reference	• copernicus_r_utm-wgs84_10_m_hrvpp-vi-qflag2_p_2017-ongoing_v01_r01

Associated resource

Association Type	Cross reference
Metadata Reference	• copernicus_r_utm-wgs84_10_m_hrvpp-vi-ndvi_p_2017-ongoing_v01_r01

Associated resource

Association Type	Cross reference
Metadata Reference	• copernicus_r_utm-wgs84_10_m_hrvpp-vi-fapar_p_2017-ongoing_v01_r01

Associated resource

Association Type	Cross reference
Metadata Reference	• copernicus_r_utm-wgs84_10_m_hrvpp-vi-lai_p_2017-ongoing_v01_r01

Language	English
Character encoding	UTF8

Distribution Information

Distribution format	• GeoTIFF
OnLine resource	WEkEO portal
OnLine resource	CLMS_HRVPP_VI_LAI_10M CLMS_HRVPP_VI_LAI_10M
OnLine resource	Harmonized Data Access (WEkEO) Harmonized Data Access (WEkEO)
OnLine resource	OpenSearch API

OnLine resource	Product information
OnLine resource	Product user manual
OnLine resource	CLMS_HRVPP_VI_LAI_10M CLMS_HRVPP_VI_LAI_10M
OnLine resource	Download (requires authentication)

Data quality info

Hierarchy level	Dataset
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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	See the referenced specification

Resource lineage

Statement	Comprehensive information about the product and its documentation can be accessed by following the links provided in the Links section.
Hierarchy level	Dataset

Reference System Information
Reference System Information

Code	EPSG:32625
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Reference System Information
Reference System Information

Code	EPSG:32626
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Reference System Information
Reference System Information

Code	EPSG:32627
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Reference System Information
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Code	EPSG:32636
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Reference System Information

Reference System Information

Code	EPSG:32637
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Reference System Information

Reference System Information

Code	EPSG:32638
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Metadata

Metadata identifier	8174a95b-29ad-4d9c-95e7-a1e0a6d94aca		
Language	English		
Character encoding	UTF8		
Contact	Organisation	Individual	Electronic mail Website Role

European Environment Agency

address

sdi@eea.
europa.eu

Point
of
contact

Type of resource

Resource type	Dataset
Metadata linkage	https://sdi.eea.europa.eu/geonetwork/srv/api/records/8174a95b-29ad-4d9c-95e7-a1e0a6d94aca
Date info (Creation)	2021-10-20T15:54:02.559Z
Date info (Revision)	2025-10-09T11:00:26.706484Z

Metadata standard

Title	ISO 19115/19139
Edition	1.0

Overviews

Provided by

