



## 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

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				
Point of contact	<b>Organisation name</b>  European Environment Agency  European Environment Agency  European Environment Agency	<b>Individual name</b>    	<b>Electronic mail address</b>  copernicus@eea.europa.eu  copernicus@eea.europa.eu  copernicus@eea.europa.eu	<b>Website</b> <a href="https://land.copernicus.eu">https://land.copernicus.eu</a>  <a href="https://land.copernicus.eu">https://land.copernicus.eu</a>  <a href="https://land.copernicus.eu">https://land.copernicus.eu</a>	<b>Role</b> Distributor  Custodian  Point of contact

### Point of contact

No information provided.

Maintenance and update frequency	Continual
GEMET - INSPIRE themes, version 1.0	<ul style="list-style-type: none"><li><a href="#">Orthoimagery</a></li><li><a href="#">Land cover</a></li></ul>
Keywords	
Keywords	
GEMET	<ul style="list-style-type: none"><li>leaf</li><li>vegetation</li><li>land</li><li>plant ecology</li><li>index</li></ul>

	<ul style="list-style-type: none"> <li>• plant production</li> <li>• remote sensing</li> </ul>
<b>Spatial scope</b>	• European
<b>Temporal resolution</b>	• Daily
<b>Continents, countries, sea regions of the world.</b>	<ul style="list-style-type: none"> <li>• United Kingdom</li> <li>• EEA38 (from 2020)</li> </ul>
<b>EEA topics</b>	<ul style="list-style-type: none"> <li>• Biodiversity</li> <li>• Agriculture and food</li> <li>• Land use</li> </ul>
<b>Access constraints</b>	Other restrictions
<b>Other constraints</b>	<a href="#">no limitations to public access</a>
<b>Use constraints</b>	Other restrictions
<b>Other constraints</b>	<p>Access to data is based on a principle of full, open and free access as established by the Copernicus data and information policy Regulation (EU) No 1159/2013 of 12 July 2013. This regulation establishes registration and licensing conditions for GMES/Copernicus users.</p> <p>Free, full and open access to this data set is made on the conditions that:</p> <ol style="list-style-type: none"> <li>1. When distributing or communicating Copernicus dedicated data and Copernicus service information to the public, users shall inform the public of the source of that data and information.</li> <li>2. Users shall make sure not to convey the impression to the public that the user's activities are officially endorsed by the Union.</li> <li>3. Where that data or information has been adapted or modified, the user shall clearly state this.</li> <li>4. The data remain the sole property of the European Union. Any information and data produced in the framework of the action shall be the sole property of the European Union. Any communication and publication by the beneficiary shall acknowledge that the data were produced "with funding by the European Union".</li> </ol>
<b>Aggregate DatasetIdentifier</b>	copernicus_r_utm-wgs84_10_m_hrvpp-vi-qflag2_p_2017-ongoing_v01_r01
<b>Association Type</b>	Cross reference
<b>Aggregate DatasetIdentifier</b>	copernicus_r_utm-wgs84_10_m_hrvpp-vi-ndvi_p_2017-ongoing_v01_r01
<b>Association Type</b>	Cross reference
<b>Aggregate DatasetIdentifier</b>	copernicus_r_utm-wgs84_10_m_hrvpp-vi-fapar_p_2017-ongoing_v01_r01
<b>Association Type</b>	Cross reference
<b>Aggregate DatasetIdentifier</b>	copernicus_r_utm-wgs84_10_m_hrvpp-vi-lai_p_2017-ongoing_v01_r01
<b>Association Type</b>	Cross reference
<b>Spatial representation type</b>	Grid
<b>Distance</b>	10 10 m
<b>Language of dataset</b>	English
<b>Character set</b>	UTF8
<b>Topic category</b>	<ul style="list-style-type: none"> <li>• Environment</li> <li>• Imagery base maps earth cover</li> <li>• Climatology, meteorology, atmosphere</li> </ul>

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Begin date	2016-10-01
Coordinate reference system identifier	<a href="#">EPSG:32625</a>
Coordinate reference system identifier	<a href="#">EPSG:32626</a>
Coordinate reference system identifier	<a href="#">EPSG:32627</a>
Coordinate reference system identifier	<a href="#">EPSG:32628</a>
Coordinate reference system identifier	<a href="#">EPSG:32629</a>
Coordinate reference system identifier	<a href="#">EPSG:32630</a>
Coordinate reference system identifier	<a href="#">EPSG:32631</a>
Coordinate reference system identifier	<a href="#">EPSG:32632</a>
Coordinate reference system identifier	<a href="#">EPSG:32633</a>
Coordinate reference system identifier	<a href="#">EPSG:32634</a>
Coordinate reference system identifier	<a href="#">EPSG:32635</a>
Coordinate reference system identifier	<a href="#">EPSG:32636</a>
Coordinate reference system identifier	<a href="#">EPSG:32637</a>
Coordinate reference system identifier	<a href="#">EPSG:32638</a>
Distribution format	<ul style="list-style-type: none"> <li>• GeoTIFF ( 1.0 )</li> </ul>
OnLine resource	<p><b>Protocol</b>    <b>Linkage</b></p> <p>WWW: <a href="https://www.wekeo.eu/data?view=viewer&amp;t=1566840390697&amp;z=0&amp;center=13.08408%2C48.33915&amp;zoom=12.34&amp;layers=W3siaWQiOijMiisInJlcGxhY2VtZW50Q29sb3JNYXBjZC16bnVsxCwibGF5ZXJJZC16IkVPOkVFQTpEQVQ6Q0">https://www.wekeo.eu/data?view=viewer&amp;t=1566840390697&amp;z=0&amp;center=13.08408%2C48.33915&amp;zoom=12.34&amp;layers=W3siaWQiOijMiisInJlcGxhY2VtZW50Q29sb3JNYXBjZC16bnVsxCwibGF5ZXJJZC16IkVPOkVFQTpEQVQ6Q0</a></p> <p>OGC:WMTS <a href="https://phenology.vgt.vito.be/wmts?request=GetCapabilities">https://phenology.vgt.vito.be/wmts?request=GetCapabilities</a></p> <p>WWW: <a href="https://land.copernicus.eu/en/technical-library/hr-vpp-data-access-manual/@ @download/file">https://land.copernicus.eu/en/technical-library/hr-vpp-data-access-manual/@ @download/file</a></p> <p>LINK-1.0- http-link</p> <p>OGC: <a href="https://phenology.vgt.vito.be/description?collection=copernicus_r_utm-wgs84_10_m_hrvpp-vi_p_2017-now_v01">https://phenology.vgt.vito.be/description?collection=copernicus_r_utm-wgs84_10_m_hrvpp-vi_p_2017-now_v01</a></p> <p>OpenSearch <a href="https://land.copernicus.eu/en/products/vegetation/high-resolution-leaf-area-index">https://land.copernicus.eu/en/products/vegetation/high-resolution-leaf-area-index</a></p>

	<p>WWW: LINK-1.0- http-link</p> <p>WWW: <a href="https://land.copernicus.eu/en/technical-library/product-user-manual-of-vegetation-indices/@_download/file">https://land.copernicus.eu/en/technical-library/product-user-manual-of-vegetation-indices/@_download/file</a></p> <p>LINK-1.0- http-link</p> <p>OGC:WMS <a href="https://phenology.vgt.vito.be/wms?request=GetCapabilities">https://phenology.vgt.vito.be/wms?request=GetCapabilities</a></p> <p>WWW: LINK-1.0- http-link</p> <p><a href="https://land.copernicus.eu/en/products/vegetation/high-resolution-leaf-area-index#download">https://land.copernicus.eu/en/products/vegetation/high-resolution-leaf-area-index#download</a></p>
Hierarchy level	Dataset

## Conformance result

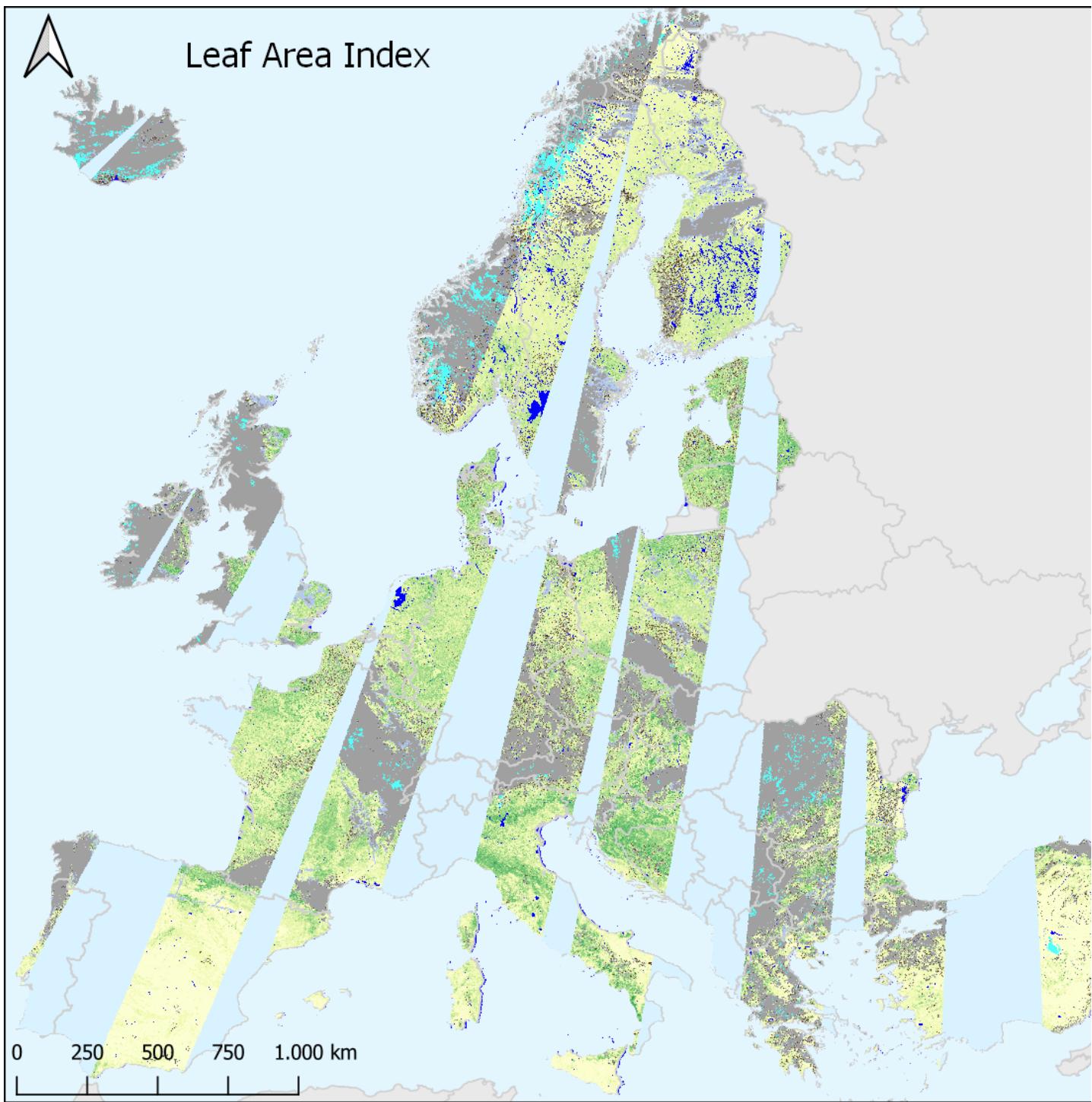
Date (Publication)	2010-12-08
Explanation	See the referenced specification

Statement	The latest validation results are described in the validation report at <a href="https://land.copernicus.eu/user-corner/technical-library/validation-report-of-vegetation-indices">https://land.copernicus.eu/user-corner/technical-library/validation-report-of-vegetation-indices</a>
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## Metadata

File identifier	8174a95b-29ad-4d9c-95e7-a1e0a6d94aca <a href="#">XML</a>		
Metadata language	English		
Character set	UTF8		
Hierarchy level	Dataset		
Date stamp	2024-02-06T16:46:00.964Z		
Metadata standard name	ISO 19115/19139		
Metadata standard version	1.0		
Metadata author	<p>Organisation name</p> <p>European Environment Agency</p>	<p>Individual name</p>	<p>Electronic mail</p> <p>sdi@eea. europa.eu</p> <p>Website Role address</p> <p>Point of contact</p>

## Overviews



Provided by

