

## Medium Resolution Vegetation Phenology and Productivity: Largest value for the fitted function during the season (raster 500m), Oct. 2022

The largest value for the fitted function during the season, one of the Vegetation Phenology and Productivity (VPP) parameters, is a product of the pan-European Medium Resolution Vegetation Phenology and Productivity (MR-VPP) component of the Copernicus Land Monitoring Service (CLMS).

The largest value for the fitted function during the season expresses the highest value of the season but may occur on a different date than the peak of season.

The Plant Phenology Index (PPI) is a physically based vegetation index, developed for improving the monitoring of the vegetation growth cycle. The PPI index values, with 5-day satellite revisit cycle, are first used in a function fitting to derive the PPI Seasonal Trajectories. From these Seasonal Trajectories, a suite of 13 Vegetation Phenology and Productivity (VPP) parameters are then computed and provided, for up to two seasons each year. The largest value for the fitted function during the season is one of the 13 parameters. The full list is available in the Product User Manual: [https://land.copernicus.eu/user-corner/technical-library/clms\\_mrvpp\\_pum\\_d1-0.pdf](https://land.copernicus.eu/user-corner/technical-library/clms_mrvpp_pum_d1-0.pdf)

The largest value time series dataset is made available as raster files with 500x 500m resolution, in ETRS89-LAEA projection corresponding to the MCD43 tiling grid, for those tiles that cover the EEA38 countries and the United Kingdom and for two seasons in each year from 2000 onwards. It is updated in the first quarter of each year.

The full on-line access to open and free data for this resource will be made available in the second half of 2024. Until then the data will be made available 'on-demand' by filling in the form at: <https://land.copernicus.eu/contact-form>

### Simple

Date (Creation)	2022-06-08			
Date (Publication)	2022-10-10			
Edition	01.00			
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No information provided.

Maintenance and update frequency	Annually
GEMET - INSPIRE themes, version 1.0	<ul style="list-style-type: none"> <li>Habitats and biotopes</li> <li>Environmental monitoring facilities</li> <li>Orthoimagery</li> </ul>
Keywords	
Continents, countries, sea regions of the world.	<ul style="list-style-type: none"> <li>United Kingdom</li> <li>EEA38 (from 2020)</li> </ul>

<b>Keywords</b>	
<b>GEMET</b>	<ul style="list-style-type: none"> <li>• index</li> <li>• land</li> <li>• plant ecology</li> <li>• remote sensing</li> <li>• vegetation</li> <li>• productivity</li> <li>• plant production</li> </ul>
<b>Spatial scope</b>	<ul style="list-style-type: none"> <li>• <a href="#">European</a></li> </ul>
<b>Temporal resolution</b>	<ul style="list-style-type: none"> <li>• Annually</li> </ul>
<b>EEA topics</b>	<ul style="list-style-type: none"> <li>• Agriculture and food</li> <li>• Land use</li> <li>• Forests and forestry</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>Spatial representation type</b>	Grid
<b>Distance</b>	500 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	2000-01-01		
Coordinate reference system identifier	<a href="#">EPSG:3035</a>		
Distribution format	<ul style="list-style-type: none"> <li>GeoTIFF ( )</li> </ul>		
OnLine resource	<b>Protocol</b> WWW:LINK-1.0-http--link	<b>Linkage</b> <a href="https://land.copernicus.eu/user-corner/technical-library/clms_mrvpp_pum_d1-0.pdf">https://land.copernicus.eu/user-corner/technical-library/clms_mrvpp_pum_d1-0.pdf</a>	<b>Name</b> User manual
Hierarchy level	Dataset		

### Conformance result

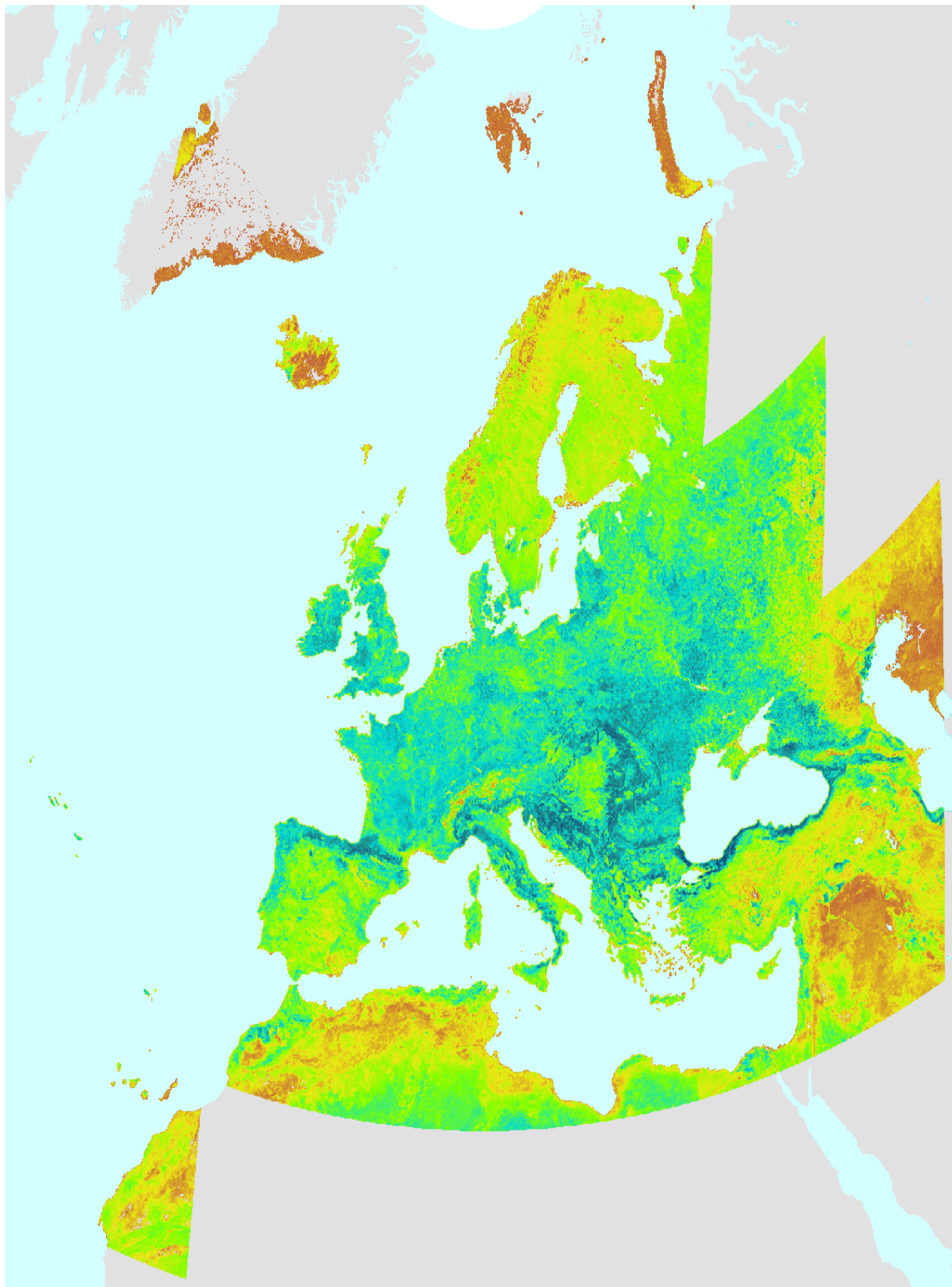
Date (Publication)	2010-12-08
Explanation	See the referenced specification

Statement	Vegetation Phenology and Productivity parameters (VPP) are based on Plant Phenology Index (PPI) seasonal trajectories and are yearly produced for two seasons using the Timesat software. One of the parameters is the PPI value at the maximum (peak) of the vegetation growing season (Largest value for the fitted function during the season). The related date when the maximum is reached and the season minimum value are available as well.
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### Metadata

File identifier	4388833f-2ae8-4d76-8a4b-7daaf78da2de <a href="#">XML</a>		
Metadata language	English		
Character set	UTF8		
Hierarchy level	Dataset		
Date stamp	2024-04-02T13:53:09.157905Z		
Metadata standard name	ISO 19115/19139		
Metadata standard version	1.0		
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## Overviews



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