



## Medium Resolution Vegetation Phenology and Productivity: Peak of season (raster 500m), Oct. 2022

The peak of season (POS), 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 peak of season (POS) expresses the maximum Plant Phenology Index (PPI) values reached during the season. It is computed as the mean value of the times for which, respectively, the left edge has increased to the 80 % level and the right edge has decreased to the 80 % level.

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 peak of season (POS) 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 peak of season (POS) 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

<b>Date (Creation)</b>	2022-06-08				
<b>Date (Publication)</b>	2022-10-10				
<b>Edition</b>	01.00				
<b>Citation identifier</b>	copernicus_r_3035_500_m_mrvpp-pos_p_2000-now_v01_r00				
<b>Point of contact</b>	<b>Organisation name</b>	<b>Individual name</b>	<b>Electronic mail address</b>	<b>Website</b>	<b>Role</b>
	European Commission			<a href="https://commission.europa.eu">https://commission.europa.eu</a>	Owner
	Copernicus Land Monitoring Service		copernicus@eea.europa.eu	<a href="https://land.copernicus.eu">https://land.copernicus.eu</a>	Custodian
	European Environment Agency		sdi@eea.europa.eu	<a href="http://www.eea.europa.eu">http://www.eea.europa.eu</a>	Publisher
	Copernicus Land Monitoring Service helpdesk		copernicus@eea.europa.eu	<a href="https://land.copernicus.eu/en/contact-service-helpdesk">https://land.copernicus.eu/en/contact-service-helpdesk</a>	Point of contact
<b>Maintenance and update frequency</b>	Annually				
<b>GEMET - INSPIRE themes, version 1.0</b>	<ul style="list-style-type: none"><li>Habitats and biotopes</li><li>Orthoimagery</li><li>Environmental monitoring facilities</li></ul>				
<b>Keywords</b>					
<b>Continents, countries, sea regions of the world.</b>	<ul style="list-style-type: none"><li>EEA38 (from 2020)</li><li>United Kingdom</li></ul>				
<b>Keywords</b>					

GEMET	<ul style="list-style-type: none"> <li>• productivity</li> <li>• remote sensing</li> <li>• land</li> <li>• plant ecology</li> <li>• plant production</li> <li>• vegetation</li> <li>• index</li> </ul>
<a href="#">Spatial scope</a>	<ul style="list-style-type: none"> <li>• <a href="#">European</a></li> </ul>
Temporal resolution	<ul style="list-style-type: none"> <li>• Annually</li> </ul>
EEA topics	<ul style="list-style-type: none"> <li>• Agriculture and food</li> <li>• Land use</li> <li>• Forests and forestry</li> </ul>
Access constraints	Other restrictions
Other constraints	<a href="#">no limitations to public access</a>
Use constraints	Other restrictions
Other constraints	<p>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.</p> <p>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.</p> <p>Free, full and open access to the products and services of the Copernicus Land Monitoring Service is made on the conditions that:</p> <ol style="list-style-type: none"> <li>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.</li> <li>2. Where the Copernicus Land Monitoring Service products and services have been adapted or modified by the user, the user shall clearly state this.</li> <li>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.</li> </ol>
Spatial representation type	Grid
Distance	500 m
Language of dataset	English
Character set	UTF8
Topic category	<ul style="list-style-type: none"> <li>• Environment</li> <li>• Imagery base maps earth cover</li> <li>• Climatology, meteorology, atmosphere</li> </ul>



Begin date	2000-01-01		
Coordinate reference system identifier	<a href="#">EPSG:3035</a>		
Distribution format	• GeoTIFF ( )		
OnLine resource	Protocol WWW:LINK-1.0-http--link	Linkage <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>	Name User manual
Hierarchy level	Dataset		

Conformance 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
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 peak of season (POS) expressing the maximum Plant Phenology Index (PPI) values reached during the season. It is computed as the mean value of the times for which, respectively, the left edge has increased to the 80 % level and the right edge has decreased to the 80 % level.

Metadata

File identifier	84b90dc0-9c84-433c-896f-e686bde561f0 <a href="#">XML</a>
Metadata language	English
Character set	UTF8
Hierarchy level	Dataset
Date stamp	2024-04-02T13:53:24.349837Z
Metadata standard name	ISO 19115/19139
Metadata standard version	1.0

Metadata author

Organisation name

Individual name

Electronic  
mail  
address

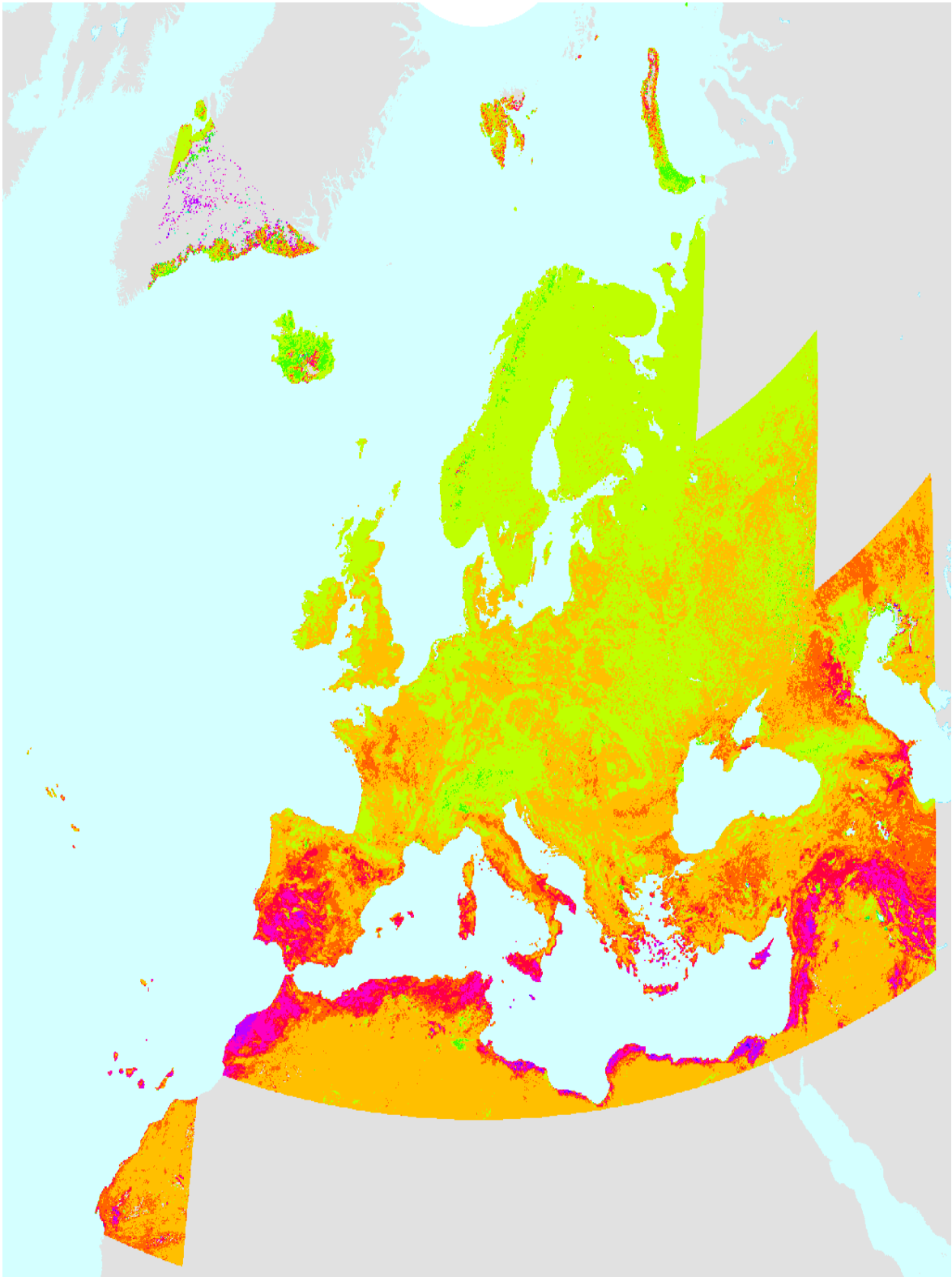
Website Role

European Environment Agency

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contact

Overviews



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