

Medium Resolution Vegetation Phenology and Productivity: Rate of increase at the start of the season (raster 500m), Oct. 2022

The increase rate, 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 increase rate at the end of the season (decrease rate) expresses the rate of change in the values of the Plant Phenology Index (PPI) at the day when the vegetation growing season starts. It is calculated as the ratio of the difference between the left 20 % and 80 % levels and the corresponding time difference.

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 increase rate 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

The increase rate 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				
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Point of contact	Organisation name	Individual name	Electronic mail address	Website	Role
	European Environment Agency		copernicus@eea.europa.eu	https://land.copernicus.eu	Distributor
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Point of contact

No information provided.

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

Keywords	
GEMET	<ul style="list-style-type: none"> • vegetation • plant ecology • index • land • remote sensing • plant production • productivity
Spatial scope	<ul style="list-style-type: none"> • European
Temporal resolution	<ul style="list-style-type: none"> • Annually
EEA topics	<ul style="list-style-type: none"> • Agriculture and food • Land use • Forests and forestry
Access constraints	Other restrictions
Other constraints	no limitations to public access
Use constraints	Other restrictions
Other constraints	<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"> 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. 2. Users shall make sure not to convey the impression to the public that the user's activities are officially endorsed by the Union. 3. Where that data or information has been adapted or modified, the user shall clearly state this. 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".
Spatial representation type	Grid
Distance	500 500 m
Language of dataset	English
Character set	UTF8
Topic category	<ul style="list-style-type: none"> • Environment • Imagery base maps earth cover • Climatology, meteorology, atmosphere

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Begin date	2000-01-01		
Coordinate reference system identifier	EPSG:3035		
Distribution format	<ul style="list-style-type: none"> • GeoTIFF () 		
OnLine resource	Protocol WWW:LINK-1.0-http--link	Linkage https://land.copernicus.eu/user-corner/technical-library/clms_mrvpp_pum_d1-0.pdf	Name User manual
Hierarchy level	Dataset		

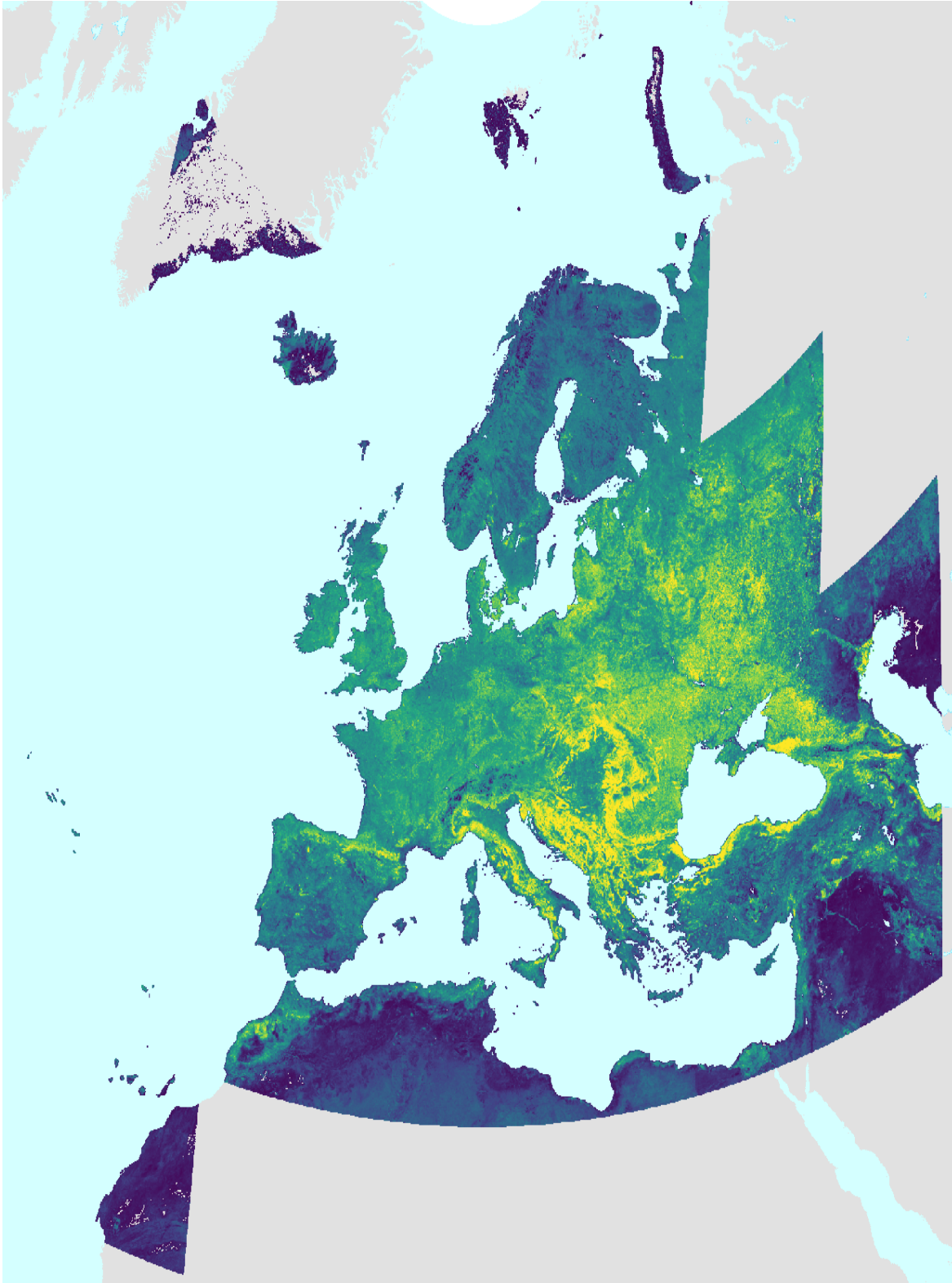
Conformance result

Date (Publication)	2010-12-08
Explanation	See the referenced specification
Statement	<p>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 increase rate at the end of the season (decrease rate) expresses the rate of change in the values of the Plant Phenology Index (PPI) at the day when the vegetation growing season starts. It is calculated as the ratio of the difference between the left 20 % and 80 % levels and the corresponding time difference.</p>

Metadata

File identifier	080f0101-b60a-45c8-810f-90b21d36d64c XML		
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Hierarchy level	Dataset		
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Overviews



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