



Season Maximum Value 2017-present (raster 10 m), Europe, yearly, Sept. 2021

The Season Maximum Value (MAXV), one of the Vegetation Phenology and Productivity (VPP) parameters, is a product of the pan-European High Resolution Vegetation Phenology and Productivity (HR-VPP) component of the Copernicus Land Monitoring Service (CLMS).

The Season Maximum Value (MAXV) provides the maximum (peak) value that the Plant Phenology Index (PPI) reaches during the vegetation growing 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, which is a filtered time series with regular 10-day time step. 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 Season Maximum Value is one of the 13 parameters. The full list is available in the table 3 of the Product User Manual <https://land.copernicus.eu/en/technical-library/product-user-manual-of-seasonal-trajectories/@download/file>

A complementary quality indicator (QFLAG) provides a confidence level, that is described in table 4 of the same manual.

The MAXV 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 two seasons in each year from 2017 onwards. It is updated in the first quarter of each year.

Simple

Date (Publication)	2021-09-02
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Edition	01.01
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Code	10.2909/774f56fc-e0e3-4918-aaea-c181bab0c2a3

Point of contact

No information provided.

Point of contact

No information provided.

Maintenance and update frequency	Annually
GEMET - INSPIRE themes, version 1.0	<ul style="list-style-type: none">• Environmental monitoring facilities• Habitats and biotopes• Orthoimagery
Keywords	
Keywords	
GEMET	<ul style="list-style-type: none">• vegetation• remote sensing• plant production• land• productivity• index• plant ecology

Spatial scope	<ul style="list-style-type: none"> European
Temporal resolution	Annually
Continents, countries, sea regions of the world.	<ul style="list-style-type: none"> United Kingdom EEA38 (from 2020)
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"> 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. Users shall make sure not to convey the impression to the public that the user's activities are officially endorsed by the Union. Where that data or information has been adapted or modified, the user shall clearly state this. 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".
Aggregate DatasetIdentifier	copernicus_r_utm-wgs84_10_m_hrvpp-vi-qflag2_p_2017-ongoing_v01_r01
Association Type	Cross reference
Aggregate DatasetIdentifier	copernicus_r_utm-wgs84_10_m_hrvpp-vi-ndvi_p_2017-ongoing_v01_r01
Association Type	Cross reference
Aggregate DatasetIdentifier	copernicus_r_utm-wgs84_10_m_hrvpp-vi-fapar_p_2017-ongoing_v01_r01
Association Type	Cross reference
Aggregate DatasetIdentifier	copernicus_r_utm-wgs84_10_m_hrvpp-vi-lai_p_2017-ongoing_v01_r01
Association Type	Cross reference
Spatial representation type	Grid
Distance	10 10 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	2017-01-01
Coordinate reference system identifier	EPSG:32625
Coordinate reference system identifier	EPSG:32626
Coordinate reference system identifier	EPSG:32627
Coordinate reference system identifier	EPSG:32628
Coordinate reference system identifier	EPSG:32629
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Coordinate reference system identifier	EPSG:32634
Coordinate reference system identifier	EPSG:32635
Coordinate reference system identifier	EPSG:32636
Coordinate reference system identifier	EPSG:32637
Coordinate reference system identifier	EPSG:32638
Distribution format	<ul style="list-style-type: none"> • GeoTIFF (1.0)
OnLine resource	<p>Protocol Linkage</p> <p>WWW: LINK-1.0- http-link https://www.wekeo.eu/data?view=viewer&t=1562219742857&z=0&center=13.08408%2C48.33915&zoom=12.34&layers=W3siaWQiOijMSlsInJlcGxhY2ViZW50Q29sb3JNYXBkJZC16bnVsbCwibGF5ZXJJZC16lkVPOkVFQTpEQVQ6Qc3D%3D</p> <p>WWW: LINK-1.0- http-link https://www.wekeo.eu/data?view=viewer&t=1562219742857&z=0&center=13.08408%2C48.33915&zoom=12.34&layers=W3siaWQiOijMSlsInJlcGxhY2ViZW50Q29sb3JNYXBkJZC16bnVsbCwibGF5ZXJJZC16lkVPOkVFQTpEQVQ6Qc3D%3D</p> <p>OGC:WMTS https://phenology.vgt.vito.be/wmts?request=GetCapabilities</p> <p>OGC:WMTS https://phenology.vgt.vito.be/wmts?request=GetCapabilities</p> <p>https://land.copernicus.eu/en/technical-library/hr-vpp-data-access-manual/@ @download/file</p>

	<p>WWW: LINK-1.0- http-link</p> <p>OGC: OpenSearch</p> <p>WWW: https://phenology.vgt.vito.be/description?collection=copernicus_r_utm-wgs84_10_m_hrvpp-vpp_p_2017-now_v01</p> <p>LINK-1.0- http-link</p> <p>WWW: https://land.copernicus.eu/en/products/vegetation/high-resolution-season-maximum-value</p> <p>LINK-1.0- http-link</p> <p>WWW: https://land.copernicus.eu/en/technical-library/product-user-manual-of-seasonal-trajectories/@@download/file</p> <p>OGC:WMS https://phenology.vgt.vito.be/wms?request=GetCapabilities</p> <p>OGC:WMS https://phenology.vgt.vito.be/wms?request=GetCapabilities</p> <p>WWW: https://land.copernicus.eu/en/products/vegetation/high-resolution-season-maximum-value#download</p> <p>LINK-1.0- http-link</p>
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OnLine resource	Protocol DOI	Linkage https://doi.org/10.2909/774f56fc-e0e3-4918-aaea-c181bab0c2a3	Name
Hierarchy level	Dataset		

Conformance result

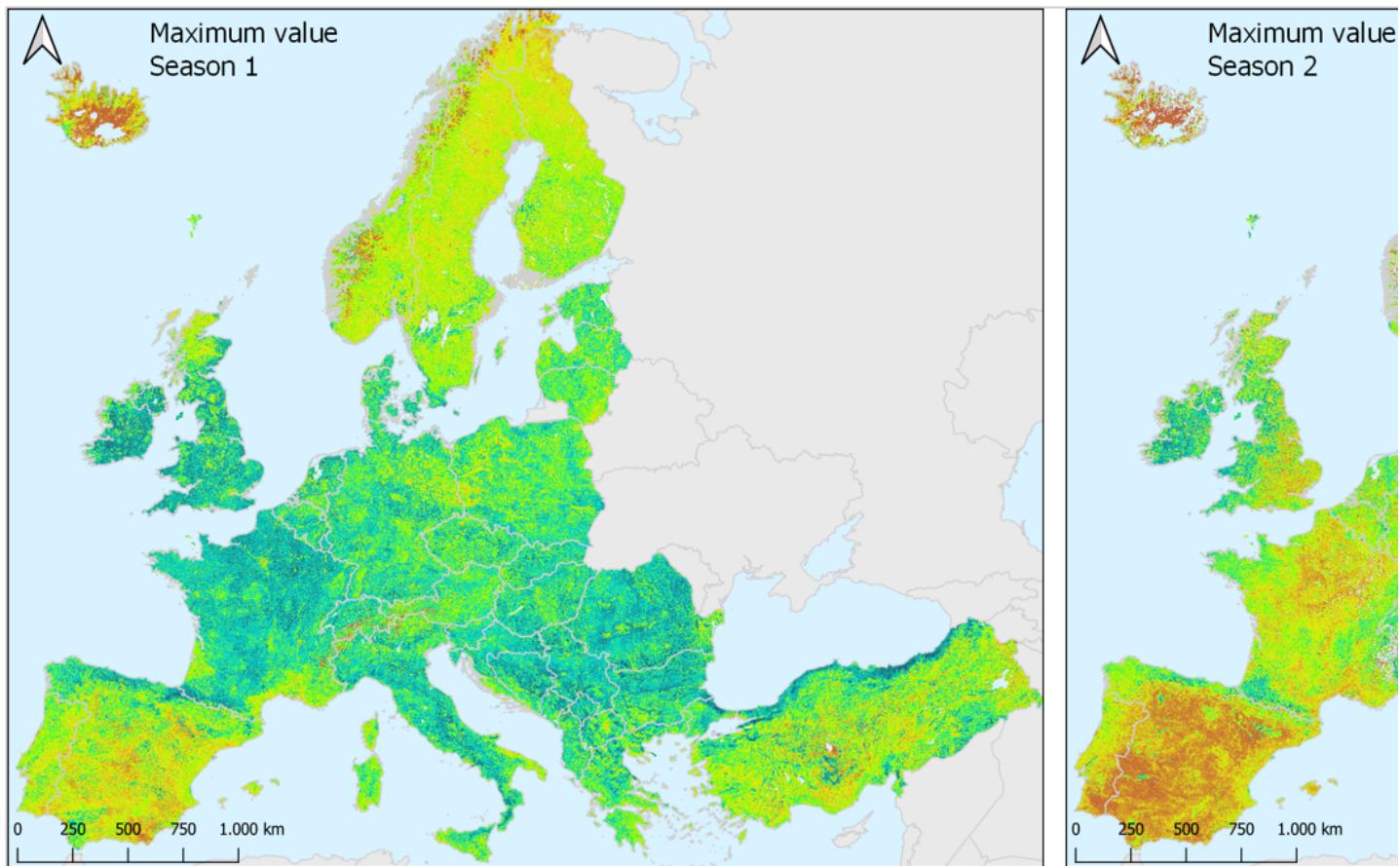
Date (Publication)	2010-12-08
Explanation	See the referenced specification

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 PPI value at the maximum (peak) of the vegetation growing season (Season Maximum Value - MAXV). The related date when the maximum is reached and the season minimum value are available as well.</p> <p>The latest validation results are described in the validation report at</p> <p>https://land.copernicus.eu/en/technical-library/validation-report-of-seasonal-trajectories-vpp-parameters/@@download/file .</p>
Source	•

Metadata

File identifier	774f56fc-e0e3-4918-aaea-c181bab0c2a3 XML		
Metadata language	English		
Character set	UTF8		
Hierarchy level	Dataset		
Date stamp	2024-02-06T16:46:13.851Z		
Metadata standard name	ISO 19115/19139		
Metadata standard version	1.0		
Metadata author	Organisation name	Individual name	Electronic mail address Website Role Point

Overviews



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