

High Resolution Vegetation Phenology and Productivity: VPP quality flag (raster 10m) version 1 revision 1, Sept. 2021

The Quality Flag (QFLAG), 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 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 Seasonal Productivity is one of the 13 parameters. The full list is available in the table 3 of the Product User Manual <https://land.copernicus.eu/user-corner/technical-library/product-user-manual-of-seasonal-trajectories/>

The Quality Flag (QFLAG) is a quality indicator for the above set of 13 Vegetation Phenology and Productivity (VPP) parameters and provides a confidence level, that is described in table 4 of the same manual.

The QFLAG 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
Date (Creation)	2021-09-02
Edition	01.01
Citation identifier	copernicus_r_utm-wgs84_10_m_hrvpp-vpp-qflag_p_2017-now_v01_r01

Point of contact

No information provided.

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No information provided.

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No information provided.

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No information provided.

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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 • plant production • remote sensing • index • productivity • plant ecology • land
Spatial scope	<ul style="list-style-type: none"> • European
Temporal resolution	<ul style="list-style-type: none"> • Annually
Continents, countries, sea regions of the world.	<ul style="list-style-type: none"> • EEA38 (from 2020) • United Kingdom
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".
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 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	
CRS identifier	EPSG:32625	
CRS identifier	EPSG:32626	
CRS identifier	EPSG:32627	
CRS identifier	EPSG:32628	
CRS identifier	EPSG:32629	
CRS identifier	EPSG:32630	
CRS identifier	EPSG:32631	
CRS identifier	EPSG:32632	
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CRS identifier	EPSG:32638	
Distribution format	<ul style="list-style-type: none"> GeoTIFF (1.0) 	
OnLine resource	Protocol	Linkage
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	WWW: LINK-1.0- http--link	https://www.wekeo.eu/data?view=viewer&t=1577751120000&z=0&center=13.08408%2C48.33915&zoom=12.34&layers=W3siaWQiOiJjMClslmxheWVySWQiOiJFTzpfRUUE6REFUOkNMTVNlSFJWUFBfVIBQL19fREVGGVVMVF9fL0
	OGC:WMTS	https://phenology.vgt.vito.be/wmts?request=GetCapabilities
	OGC:WMTS	https://phenology.vgt.vito.be/wmts?request=GetCapabilities
		https://wekeo-broker.apps.mercator.dpi.wekeo.eu/databroker/ui/

	<p>WWW: LINK-1.0- http-link</p> <p>OGC: https://phenology.vgt.vito.be/description?collection=copernicus_r_utm-wgs84_10_m_hrvpp-vpp_p_2017-now_v01 OpenSearch</p> <p>WWW: https://land.copernicus.eu/pan-european/biophysical-parameters/high-resolution-vegetation-phenology-and-productivity/veg LINK-1.0- http-link</p> <p>WWW: https://land.copernicus.eu/user-corner/technical-library/product-user-manual-of-seasonal-trajectories/ LINK-1.0- http-link</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>
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Hierarchy level	Dataset
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Conformance result

Date (Publication)	2010-12-08
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Explanation	See the referenced specification
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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. The number of available, clear-sky observations in the green up, green peak and green-down parts of each season is used to determine a confidence level for the VPP parameter retrieval. This quality indicator is provided in the Quality Flag.</p> <p>The latest validation results are described in the validation report at https://land.copernicus.eu/user-corner/technical-library/validation-report-of-seasonal-trajectories-vpp-parameters</p>
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Source	<ul style="list-style-type: none"> • High Resolution Vegetation Phenology and Productivity: PPI Seasonal Trajectories (raster 10m) version 1 revision 1, Sep. 2021
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Metadata

File identifier	f276b6bf-f03d-4d57-9752-d0ae79ff1df3 XML
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Metadata language	English
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Character set	UTF8
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Hierarchy level	Dataset
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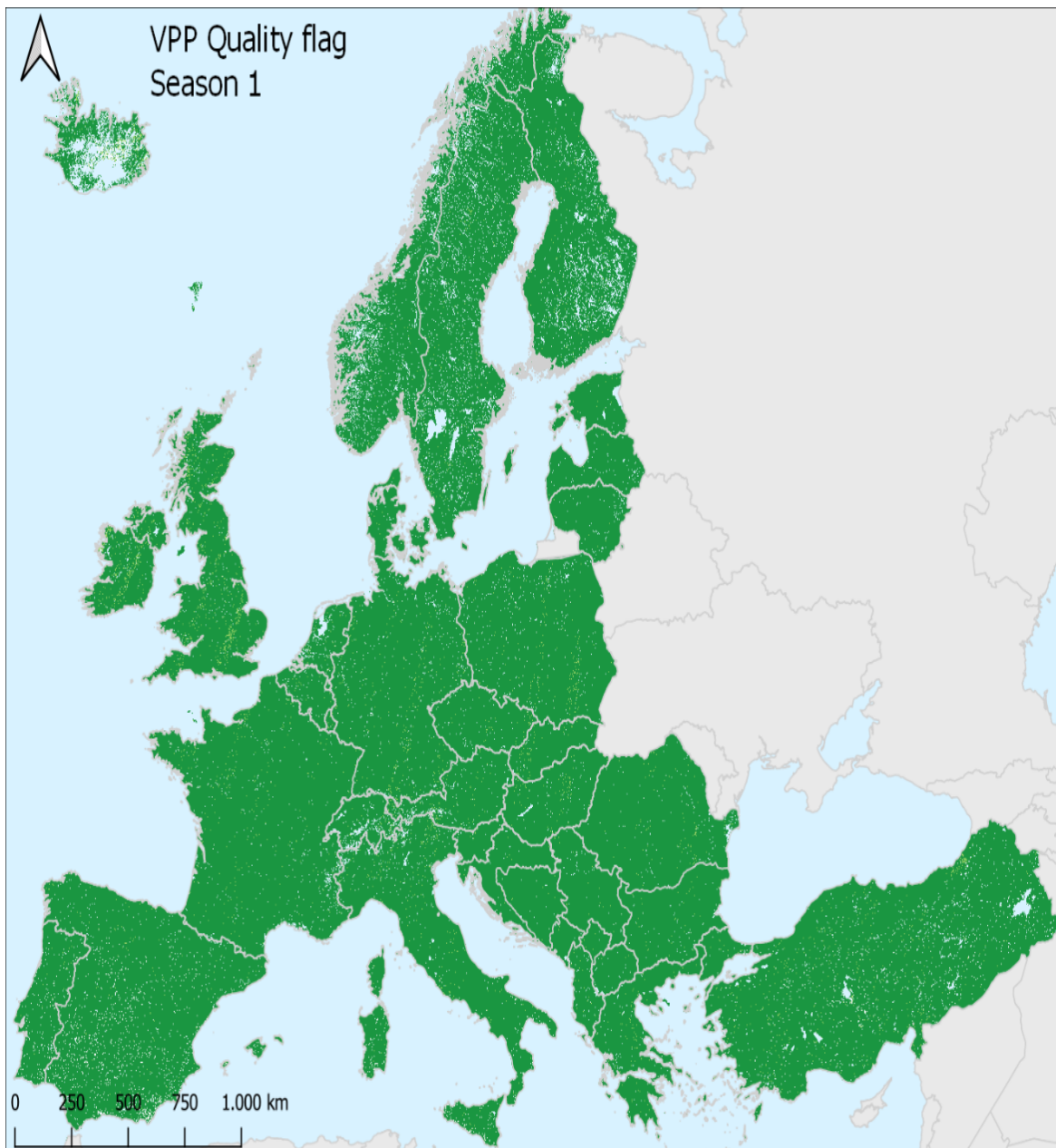
Date stamp	2023-03-23T09:15:50.938Z
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Metadata standard name	ISO 19115/19139
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Metadata standard version	1.0
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Metadata author	Organisation name	Individual name	Electronic mail address	Role
	European Environment Agency		sdi@eea.europa.eu	Point of contact

Overviews



Provided by

