

## High Resolution Vegetation Phenology and Productivity: PPI Seasonal Trajectories (raster 10m) version 1 revision 1, Sep. 2021

This metadata refers to the Plant Phenology Index (PPI) Seasonal Trajectories, is one of the products 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 for improved monitoring of plant phenology, that is developed from a simplified solution to the radiative transfer equation by Jin and Eklundh (2014) and that has a linear relationship with green leaf area index. The PPI Seasonal Trajectories (ST) product is derived from a TIMESAT-based function fitting of the time series of the PPI vegetation index and thus provides a filtered time series of Plant Phenology Index (PPI), with regular 10-day time step.

The PPI 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 the period from 2017 until today. It is updated in the first quarter of each year.

Each file has an associated quality indicator (QFLAG) that provides a confidence level.

### Simple

<b>Date (Publication)</b>	2021-09-02			
<b>Date (Creation)</b>	2021-09-02			
<b>Edition</b>	01.01			
<b>Citation identifier</b>	copernicus_r_utm-wgs84_10_m_hrpp-st-ppi_p_2017-now_v01_r01			
<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 Environment Agency		copernicus@eea.europa.eu	<a href="https://land.copernicus.eu">https://land.copernicus.eu</a> Distributor
	European Environment Agency		copernicus@eea.europa.eu	<a href="https://land.copernicus.eu">https://land.copernicus.eu</a> Custodian
	European Environment Agency		copernicus@eea.europa.eu	<a href="https://land.copernicus.eu">https://land.copernicus.eu</a> Point of contact

### Point of contact

No information provided.

<b>Maintenance and update frequency</b>	Continual
<b>GEMET - INSPIRE themes, version 1.0</b>	<ul style="list-style-type: none"> <li><a href="#">Environmental monitoring facilities</a></li> <li><a href="#">Habitats and biotopes</a></li> <li><a href="#">Orthoimagery</a></li> </ul>
<b>Keywords</b>	
<b>Keywords</b>	
<b>GEMET</b>	<ul style="list-style-type: none"> <li>land</li> <li>remote sensing</li> <li>vegetation</li> <li>index</li> <li>productivity</li> </ul>

	<ul style="list-style-type: none"> <li>• plant ecology</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>• Continual</li> </ul>
<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>EEA topics</b>	<ul style="list-style-type: none"> <li>• Biodiversity</li> <li>• Land use</li> <li>• Agriculture and food</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>Aggregate DatasetIdentifier</b>	copernicus_r_utm-wgs84_10_m_hrvpp-vi-qflag2_p_2017-ongoing_v01_r01
<b>Association Type</b>	Cross reference
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<b>Aggregate DatasetIdentifier</b>	copernicus_r_utm-wgs84_10_m_hrvpp-vi-lai_p_2017-ongoing_v01_r01
<b>Association Type</b>	Cross reference
<b>Spatial representation type</b>	Grid
<b>Distance</b>	10 10 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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Distribution format	<ul style="list-style-type: none"> <li>• GeoTIFF ( 1.0 )</li> </ul>																		
OnLine resource	<table border="0"> <thead> <tr> <th>Protocol</th> <th>Linkage</th> </tr> </thead> <tbody> <tr> <td>WWW:</td> <td><a href="https://www.wekeo.eu/data?view=viewer&amp;t=1562219742857&amp;z=0&amp;center=13.08408%2C48.33915&amp;zoom=12.34&amp;layers=W3siaWQiOiJjMSIsInJlcGxhY2VtZW50Q29sb3JNYXBjZC16bnVsbCwibGF5ZXJJZC16ikVPOkVFQTPpEQVQ6Qc3D">https://www.wekeo.eu/data?view=viewer&amp;t=1562219742857&amp;z=0&amp;center=13.08408%2C48.33915&amp;zoom=12.34&amp;layers=W3siaWQiOiJjMSIsInJlcGxhY2VtZW50Q29sb3JNYXBjZC16bnVsbCwibGF5ZXJJZC16ikVPOkVFQTPpEQVQ6Qc3D</a></td> </tr> <tr> <td>LINK-1.0-http-link</td> <td><a href="#">3D</a></td> </tr> <tr> <td>OGC:WMTS</td> <td><a href="https://phenology.vgt.vito.be/wmts?request=GetCapabilities">https://phenology.vgt.vito.be/wmts?request=GetCapabilities</a></td> </tr> <tr> <td>WWW:</td> <td><a href="https://land.copernicus.eu/en/technical-library/hr-vpp-data-access-manual/@_@download/file">https://land.copernicus.eu/en/technical-library/hr-vpp-data-access-manual/@_@download/file</a></td> </tr> <tr> <td>LINK-1.0-http-link</td> <td></td> </tr> <tr> <td>OGC:</td> <td><a href="https://phenology.vgt.vito.be/description?collection=copernicus_r_utm-wgs84_10_m_hrvpp-st_p_2017-now_v01">https://phenology.vgt.vito.be/description?collection=copernicus_r_utm-wgs84_10_m_hrvpp-st_p_2017-now_v01</a></td> </tr> <tr> <td>OpenSearch</td> <td></td> </tr> <tr> <td></td> <td><a href="https://land.copernicus.eu/en/products/vegetation/high-resolution-plant-phenology-index-seasonal-trajectories">https://land.copernicus.eu/en/products/vegetation/high-resolution-plant-phenology-index-seasonal-trajectories</a></td> </tr> </tbody> </table>	Protocol	Linkage	WWW:	<a href="https://www.wekeo.eu/data?view=viewer&amp;t=1562219742857&amp;z=0&amp;center=13.08408%2C48.33915&amp;zoom=12.34&amp;layers=W3siaWQiOiJjMSIsInJlcGxhY2VtZW50Q29sb3JNYXBjZC16bnVsbCwibGF5ZXJJZC16ikVPOkVFQTPpEQVQ6Qc3D">https://www.wekeo.eu/data?view=viewer&amp;t=1562219742857&amp;z=0&amp;center=13.08408%2C48.33915&amp;zoom=12.34&amp;layers=W3siaWQiOiJjMSIsInJlcGxhY2VtZW50Q29sb3JNYXBjZC16bnVsbCwibGF5ZXJJZC16ikVPOkVFQTPpEQVQ6Qc3D</a>	LINK-1.0-http-link	<a href="#">3D</a>	OGC:WMTS	<a href="https://phenology.vgt.vito.be/wmts?request=GetCapabilities">https://phenology.vgt.vito.be/wmts?request=GetCapabilities</a>	WWW:	<a href="https://land.copernicus.eu/en/technical-library/hr-vpp-data-access-manual/@_@download/file">https://land.copernicus.eu/en/technical-library/hr-vpp-data-access-manual/@_@download/file</a>	LINK-1.0-http-link		OGC:	<a href="https://phenology.vgt.vito.be/description?collection=copernicus_r_utm-wgs84_10_m_hrvpp-st_p_2017-now_v01">https://phenology.vgt.vito.be/description?collection=copernicus_r_utm-wgs84_10_m_hrvpp-st_p_2017-now_v01</a>	OpenSearch			<a href="https://land.copernicus.eu/en/products/vegetation/high-resolution-plant-phenology-index-seasonal-trajectories">https://land.copernicus.eu/en/products/vegetation/high-resolution-plant-phenology-index-seasonal-trajectories</a>
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<b>Hierarchy level</b>	Dataset

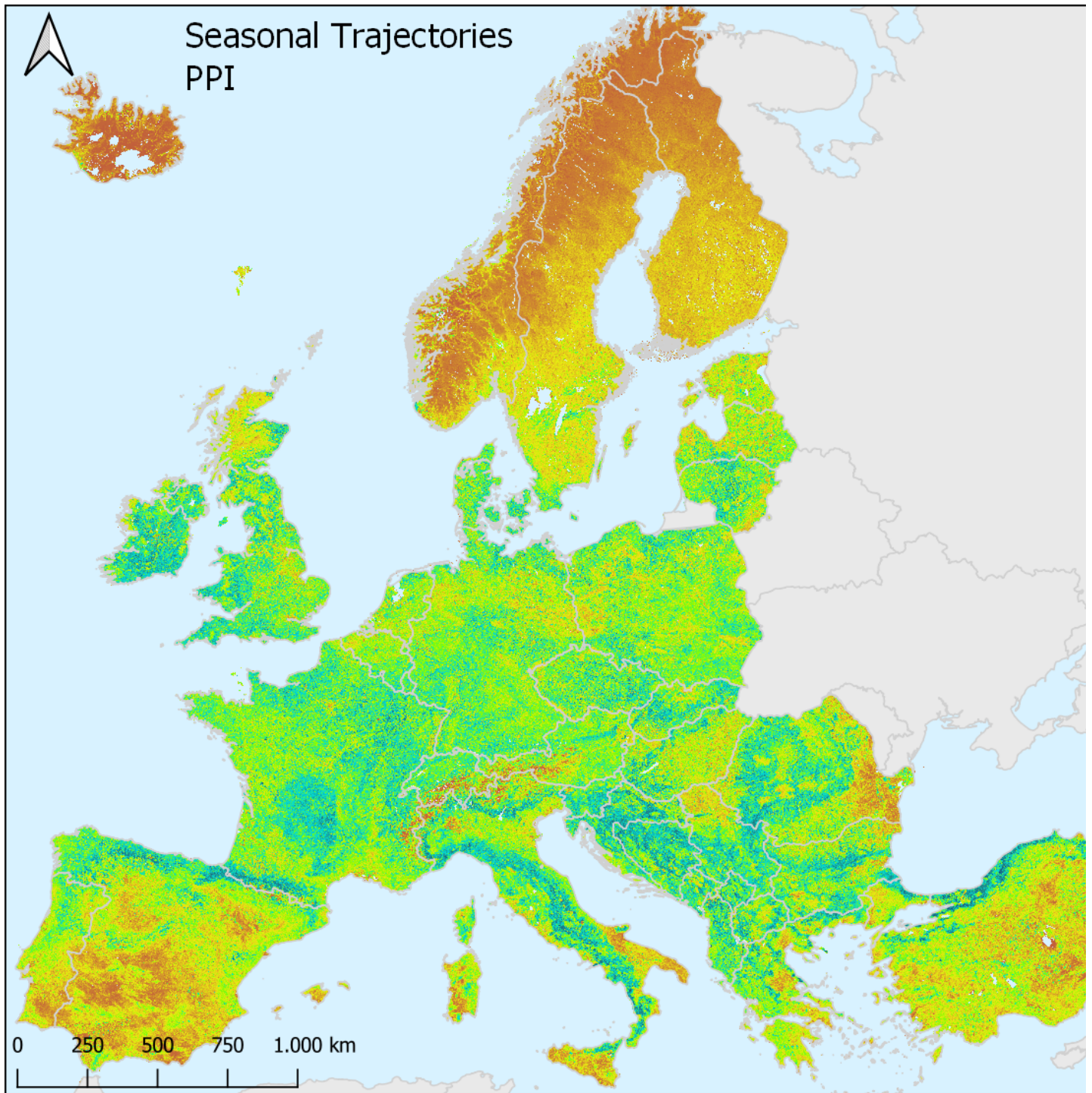
## Conformance result

<b>Date (Publication)</b>	2010-12-08
<b>Explanation</b>	See the referenced specification
<b>Statement</b>	<p>The latest validation results are described in the validation report at</p> <p><a href="https://land.copernicus.eu/en/technical-library/validation-report-of-seasonal-trajectories-vpp-parameters/@_@download/file">https://land.copernicus.eu/en/technical-library/validation-report-of-seasonal-trajectories-vpp-parameters/@_@download/file</a> .</p>
<b>Source</b>	•

## Metadata

<b>File identifier</b>	2512bab8-9221-422c-acbf-08167ed90649 <a href="#">XML</a>								
<b>Metadata language</b>	English								
<b>Character set</b>	UTF8								
<b>Hierarchy level</b>	Dataset								
<b>Date stamp</b>	2024-02-06T16:46:04.98Z								
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<b>Metadata standard version</b>	1.0								
<b>Metadata author</b>	<table border="0"> <thead> <tr> <th>Organisation name</th> <th>Individual name</th> <th>Electronic mail address</th> <th>Website Role</th> </tr> </thead> <tbody> <tr> <td>European Environment Agency</td> <td></td> <td>sdi@eea.europa.eu</td> <td>Point of contact</td> </tr> </tbody> </table>	Organisation name	Individual name	Electronic mail address	Website Role	European Environment Agency		sdi@eea.europa.eu	Point of contact
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## Overviews



Provided by

