



## High Resolution Vegetation Phenology and Productivity (UTM WGS84)

High-Resolution Vegetation Phenology and Productivity parameters at pan-European level provide three product groups: daily vegetation indices, 10-daily seasonal trajectories and annual vegetation phenology and productivity parameters:

**Vegetation indices.** This group consists of daily products generated in near real-time (NRT) providing for every pixel the status of the vegetation vigor. The status is provided in four ways: Leaf Area Index (LAI), Fraction of Absorbed Photosynthetically Active Radiation (FAPAR), Normalized Difference Vegetation Index (NDVI) and Plant Phenology Index (PPI). The Vegetation Indices data bundle is accompanied with a quality flag (QFLAG2) indicating e.g. snow or cloud covers.

**Seasonal trajectories.** Products are provided on annual basis after the end of the vegetation growing season. They are derived as a regular time-series of every 10 days by fitting a smoothing and gap filling function to the raw Plant Phenology Index. The Seasonal Trajectories data bundle is accompanied with a quality flag (QFLAG2) layer indicating the quality of the smoothing process.

**Vegetation Phenology and Productivity parameters.** Parameters are derived from the seasonal trajectories of the PPI index, on a yearly basis, after the end of the growing season. The Vegetation Phenology and Productivity parameters are produced for up to 2 seasons. They provide vegetation and productivity metrics for each pixel per year, amounting to thirteen metrics per season, hence 26 metrics for two growing seasons. The metrics describe the yearly vegetation development, e.g. the start of growing season day (SOSD), end of growing season day (EOSD), length of growing season (LENGTH) or annual productivity (TPROD). The parameters are accompanied with a quality flag layer. The product suite is operational since January 2017 onwards.

The datasets in this series are made available as raster files with 10 x 10m resolutions, in UTM/WGS84 projection corresponding to the Sentinel-2 tiling grid.

The High-Resolution Vegetation Phenology and Productivity product suite is part of the European Union's Copernicus Land Monitoring Service.

### Simple

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### Point of contact

No information provided.

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No information provided.

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No information provided.

<b>Continents, countries, sea regions of the world.</b>	<ul style="list-style-type: none"><li>• United Kingdom</li><li>• EEA38 (from 2020)</li></ul>
<b>EEA Management Plan</b>	<ul style="list-style-type: none"><li>• 2021 6.5.1</li></ul>
<b>Keywords</b>	
<b>Keywords</b>	
<b>EEA topics</b>	<ul style="list-style-type: none"><li>• <a href="#">Biodiversity</a></li><li>• <a href="#">Land use</a></li><li>• <a href="#">Agriculture and food</a></li></ul>
<b>GEMET</b>	<ul style="list-style-type: none"><li>• productivity</li><li>• remote sensing</li><li>• index</li></ul>

	<ul style="list-style-type: none"> <li>land</li> <li>plant ecology</li> <li>plant production</li> <li>vegetation</li> <li>plant resource</li> <li>leaf</li> <li>photosynthesis</li> <li>radiation</li> </ul>
<a href="#">GEMET - INSPIRE themes, version 1.0</a>	<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> <li><a href="#">Land cover</a></li> </ul>
<a href="#">Spatial scope</a>	<ul style="list-style-type: none"> <li><a href="#">European</a></li> </ul>
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Character set	UTF8

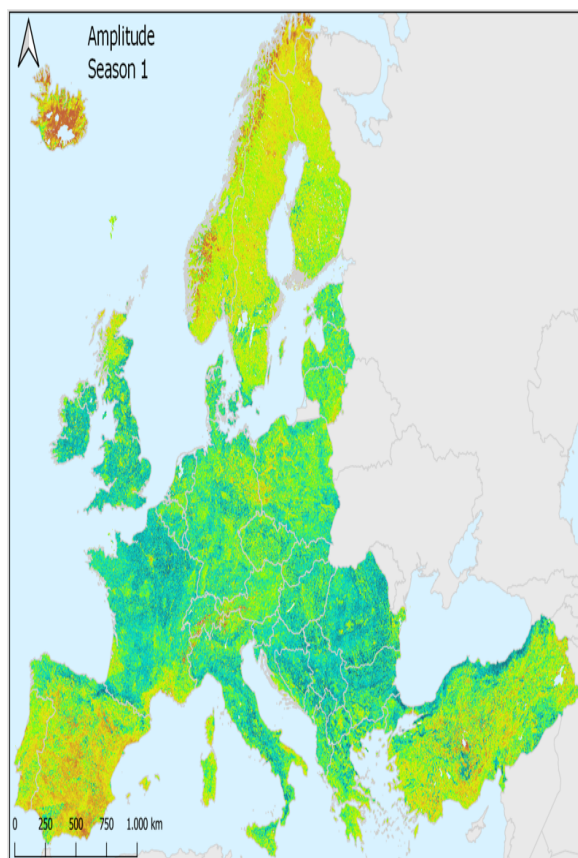


Begin date	2016-10-01
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Metadata

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Metadata standard version	1.0		
Metadata author	Organisation name	Individual name	Electronic mail addressWebsite Role
	European Environment Agency		sdi@eea.europa.euPoint of contact

Overviews



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