EEA geospatial data catalogue

End-of-season Date 2017-present (raster 10 m), Europe, yearly, Sept. 2021

The End-of-Season Date (EOSD), 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 End-of-Season Date (EOSD) marks the date when the vegetation growing season ends in the time profile of the Plant Phenology Index (PPI). The end-of-season occurs, by definition, when the PPI value reaches 15% of the season amplitude during the green-down period.

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 End-of-Season Date 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 EOSD 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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Point of contact

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	• Habitats and biotopes • Environmental monitoring facilities • Orthoimagery
Keywords	
Keywords	
	• vegetation

GEMET	• productivity • index • plant ecology • plant production • remote sensing • land
Spatial scope	• European
Temporal resolution	• Annually
Continents, countries, sea regions of the world.	• United Kingdom • EEA38 (from 2020)
Access constraints	Other restrictions
Other constraints	no limitations to public access
Use constraints	Other restrictions
Other constraints	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. Free, full and open access to this data set is made on the conditions that: 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 Datasetindentifier	copernicus_r_utm-wgs84_10_m_hrvpp-vi-qflag2_p_2017-ongoing_v01_r01
Association Type	Cross reference
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Association Type	Cross reference
Aggregate Datasetindentifier	copernicus_r_utm-wgs84_10_m_hrvpp-vi-fapar_p_2017-ongoing_v01_r01
Association Type	Cross reference
Aggregate Datasetindentifier	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	• 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
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	WWW: LINK-1.0-http--link OGC: OpenSearch https://phenology.vgt.vito.be/description?collection=copernicus_r_utm-wgs84_10_m_hrvpp-vpp_p_2017-now_v01 WWW: LINK-1.0-http--link https://land.copernicus.eu/en/products/vegetation/high-resolution-end-of-season-date WWW: LINK-1.0-http--link https://land.copernicus.eu/en/technical-library/product-user-manual-of-seasonal-trajectories/@@download/file OGC:WMS https://phenology.vgt.vito.be/wms?request=GetCapabilities OGC:WMS https://phenology.vgt.vito.be/wms?request=GetCapabilities WWW: LINK-1.0-http--link https://land.copernicus.eu/en/products/vegetation/high-resolution-end-of-season-date#download
OnLine resource	**Protocol** DOI **Linkage** https://doi.org/10.2909/21807826-d6ef-4aaa-b9c1-2cd1691ba966 **Name**
Hierarchy level	Dataset

Conformance result

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

Statement	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 end date of the vegetation growing season (End-of-Season Date - EOSD). The related PPI value and slope (rate of PPI change) for this date are available as well. The latest validation results are described in the validation report at https://land.copernicus.eu/en/technical-library/validation-report-of-seasonal-trajectories-vpp-parameters/@@download/file .
Source	• High Resolution Vegetation Phenology and Productivity: PPI Seasonal Trajectories (raster 10m) version 1 revision 1, Sep. 2021

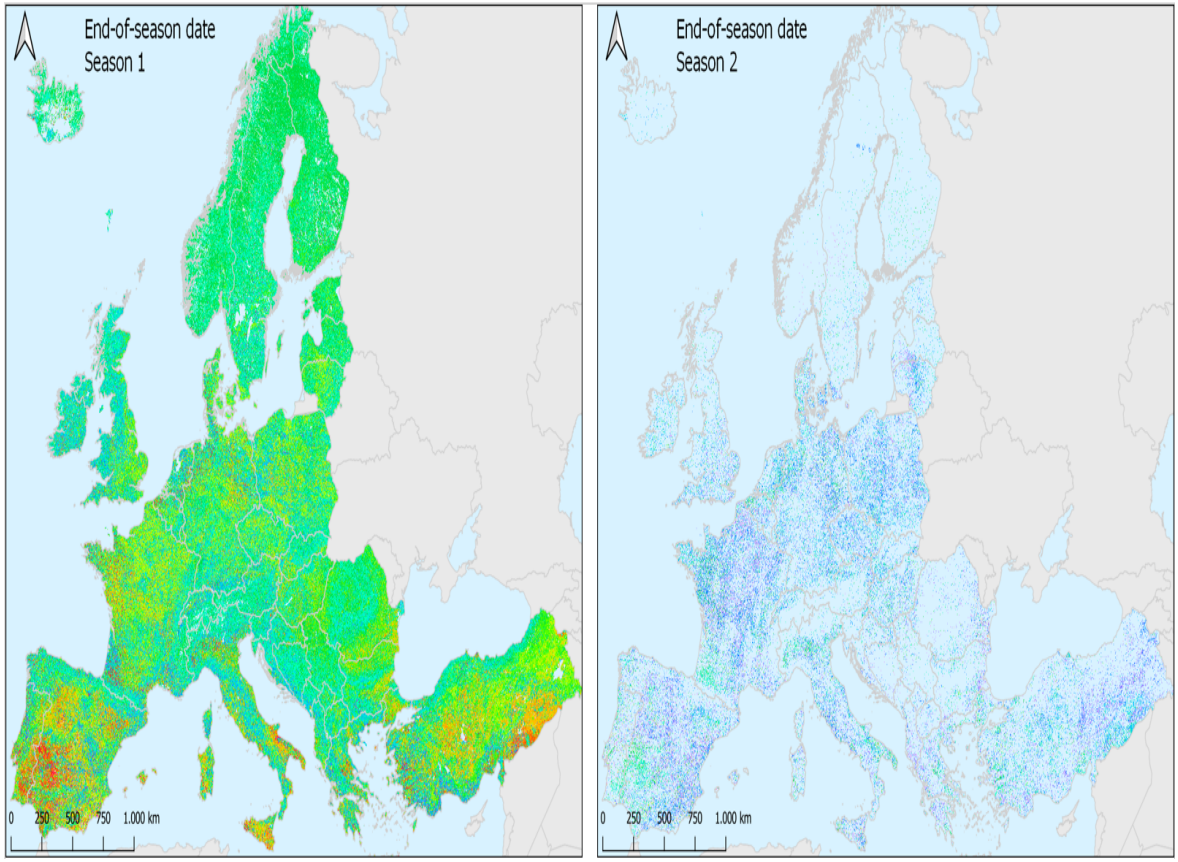
Metadata

File identifier	21807826-d6ef-4aaa-b9c1-2cd1691ba966 XML
Metadata language	English
Character set	UTF8
Hierarchy level	Dataset
Date stamp	2024-02-06T16:46:08.841Z
Metadata standard name	ISO 19115/19139
Metadata standard version	1.0
Metadata author	**Organisation name** European Environment Agency **Individual name** **Electronic mail address** **Website** **Role** Point of

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Overviews



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