

## Trends in annual above ground vegetation productivity 2000-2016, version 1, Mar. 2019

The raster file is the temporal trend in above ground vegetation biomass productivity.

The vegetation productivity dataset is based on the time series of the Plant Phenology Index (PPI) derived from the MODIS BRDF-Adjusted Reflectance product (MODIS MCD43 NBAR). The PPI index is optimized for efficient monitoring of vegetation phenology and is derived from the source MODIS data using radiative transfer solutions applied to the reflectance in visible- and near infrared spectral domains. The productivity indicator is based on calculating the area under the PPI temporal curve above the baseline (large integral - LINT) using the TIMESAT software. Relative change of vegetation productivity was then calculated as  $(Y_{fitLINT2016} - Y_{fitLINT2000})/Y_{fitLINT2000}$  and expressed in percent scale [%]. Negative values refer to decrease in vegetation productivity, whereas positive values refer to increase in vegetation productivity.

### Simple

Date (Publication)	2019-03-12
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Edition	01.00
Citation identifier	eea_r_3035_500_m_p-lint-trend_p_2000-2016_v01_r00
Citation identifier	DAT-225-en

### Point of contact

No information provided.

### Point of contact

No information provided.

Maintenance and update frequency	As needed
<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> </ul>
Keywords	
Keywords	
GEMET	<ul style="list-style-type: none"> <li>above-ground biomass growth</li> <li>productivity trend</li> <li>productivity</li> <li>above-ground biomass</li> <li>vegetation</li> </ul>
Continents, countries, sea regions of the world.	<ul style="list-style-type: none"> <li>EEA39</li> </ul>
<a href="#">Spatial scope</a>	<ul style="list-style-type: none"> <li><a href="#">European</a></li> </ul>
EEA Management Plan	<ul style="list-style-type: none"> <li>2019 1.8.2</li> </ul>
EEA topics	<ul style="list-style-type: none"> <li>Agriculture and food</li> <li>Land use</li> <li>Forests and forestry</li> </ul>
Access constraints	Other restrictions

<b>Other constraints</b>	<a href="#">no limitations to public access</a>
<b>Use constraints</b>	Other restrictions
<b>Other constraints</b>	EEA standard re-use policy: unless otherwise indicated, re-use of content on the EEA website for commercial or non-commercial purposes is permitted free of charge, provided that the source is acknowledged ( <a href="http://www.eea.europa.eu/legal/copyright">http://www.eea.europa.eu/legal/copyright</a> ). Copyright holder: European Environment Agency (EEA).
<b>Aggregate Datasetidentifier</b>	1be91ed4-2eb1-46d6-8453-5246c9e9d446
<b>Association Type</b>	Cross reference
<b>Aggregate Datasetidentifier</b>	f4b01c76-29f7-4075-b13f-5dc5a9c18ae2
<b>Association Type</b>	Cross reference
<b>Aggregate Datasetidentifier</b>	f5e0c7e9-7c44-477f-950b-7c092fa0f7a8
<b>Association Type</b>	Cross reference
<b>Aggregate Datasetidentifier</b>	4635cd57-65d9-47b4-b18e-98a781ef27bb
<b>Association Type</b>	Cross reference
<b>Spatial representation type</b>	Grid
<b>Distance</b>	500 m
<b>Language of dataset</b>	English
<b>Topic category</b>	<ul style="list-style-type: none"> <li>• Environment</li> </ul>

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<b>Begin date</b>	2000-01-01		
<b>End date</b>	2016-12-31		
<b>Coordinate reference system identifier</b>	<a href="#">EPSG:3035</a>		
<b>Distribution format</b>	<ul style="list-style-type: none"> <li>BIL ( 2016 )</li> </ul>		
<b>OnLine resource</b>	<b>Protocol</b> EEA:FILEPATH  WWW:URL  ESRI:REST  OGC:WMS	<b>Linkage</b> <a href="https://sdi.eea.europa.eu/webdav/datastore/public/eea_r_3035_500_m_p-lint-trend_p_2000-2016_v01_r00/">https://sdi.eea.europa.eu/webdav/datastore/public/eea_r_3035_500_m_p-lint-trend_p_2000-2016_v01_r00/</a> <a href="https://sdi.eea.europa.eu/data/42012fdb-4612-41fb-a8f2-a195692ecf24">https://sdi.eea.europa.eu/data/42012fdb-4612-41fb-a8f2-a195692ecf24</a> <a href="https://land.discomap.eea.europa.eu/arcgis/rest/services/Phenology/Productivity_2000_2016_percentage_change/ImageServer">https://land.discomap.eea.europa.eu/arcgis/rest/services/Phenology/Productivity_2000_2016_percentage_change/ImageServer</a> <a href="https://land.discomap.eea.europa.eu/arcgis/services/Phenology/Productivity_2000_2016_percentage_change/ImageServer/WMServer?request=GetCapabilities&amp;service=WMS">https://land.discomap.eea.europa.eu/arcgis/services/Phenology/Productivity_2000_2016_percentage_change/ImageServer/WMServer?request=GetCapabilities&amp;service=WMS</a>	<b>Name</b>           Direct download
<b>Hierarchy level</b>	Dataset		

## Conformance result

<b>Date (Publication)</b>	2010-12-08
<b>Explanation</b>	See the referenced specification

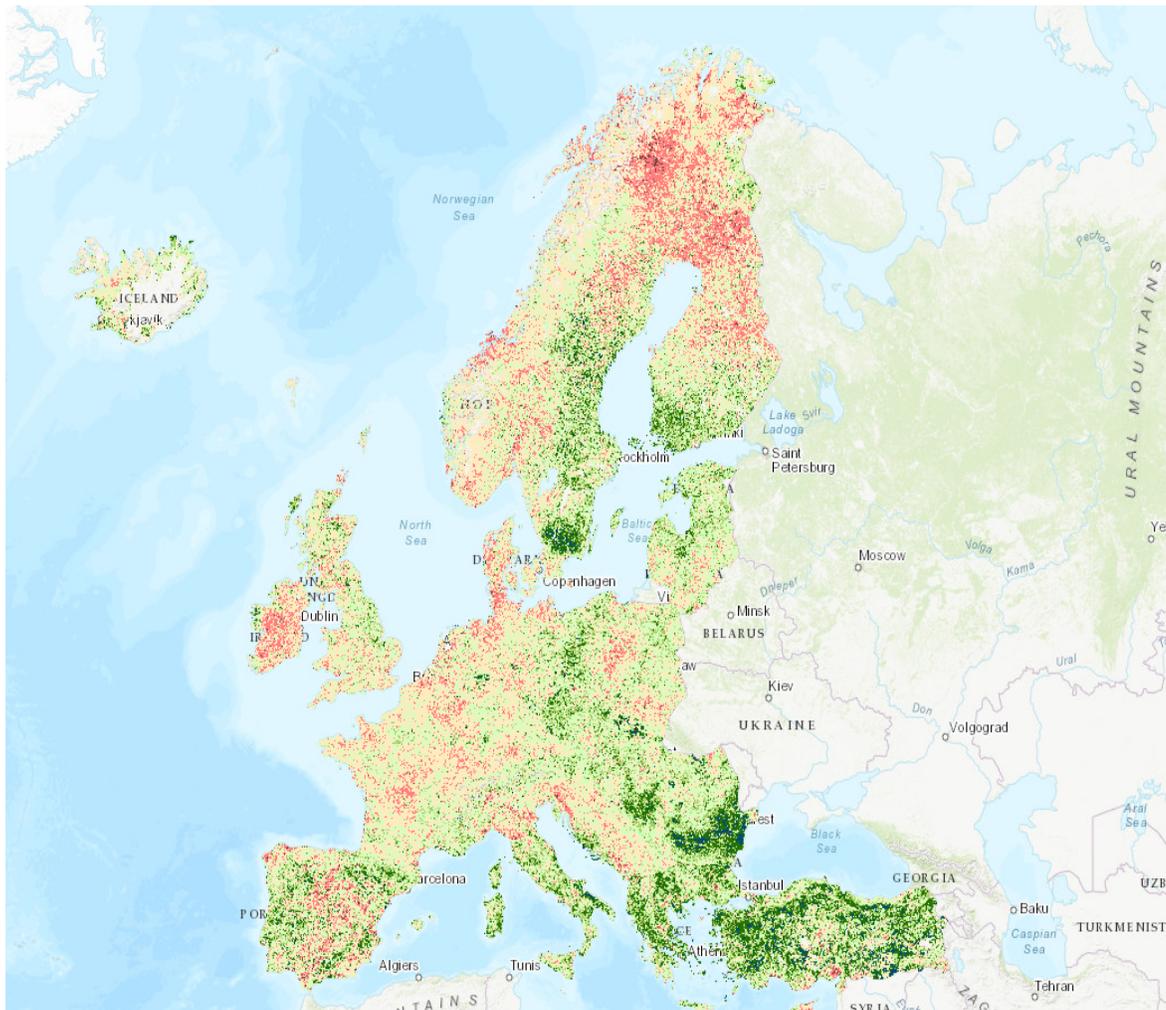
<b>Statement</b>	<p>The dataset computation steps are:</p> <ul style="list-style-type: none"> <li>• Calculation of the PPI index from the MODIS MCD43 NBAR product</li> <li>• Extraction of the area under the PPI temporal curve above the baseline (large integral - LINT) for each year of the 2000 – 2016 period using the TIMESAT software.</li> <li>• Fitting a linear trend on the time series</li> <li>• Calculation of the Yfit 2000 and Yfit 2016 values</li> <li>• Calculation of the relative productivity change: <math>(YfitLINT2016 - YfitLINT2000)/YfitLINT2000</math></li> </ul> <p>For detailed methodology of the LINT calculation please see the TIMESAT documentation available at: <a href="http://web.nateko.lu.se/timesat/timesat.asp?cat=6">http://web.nateko.lu.se/timesat/timesat.asp?cat=6</a></p>
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<b>Source</b>	<ul style="list-style-type: none"> <li>• <a href="#">Annual above ground vegetation productivity time-series, version 1, Aug. 2018</a></li> </ul>
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## Metadata

<b>File identifier</b>	42012fdb-4612-41fb-a8f2-a195692ecf24 <a href="#">XML</a>		
<b>Metadata language</b>	English		
<b>Character set</b>	UTF8		
<b>Hierarchy level</b>	Dataset		
<b>Date stamp</b>	2020-07-10T15:41:02Z		
<b>Metadata standard name</b>	ISO 19115/19139		
<b>Metadata standard version</b>	1.0		
<b>Metadata author</b>	<b>Organisation name</b>	<b>Individual name</b>	<b>Electronic mail address</b> <b>Website Role</b>
	European Environment Agency		sdi@eea.europa.eu Point of contact

## Overviews



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