

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

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Edition	01.00
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Citation identifier	DAT-225-en

Point of contact

No information provided.

Point of contact

No information provided.

Maintenance and update frequency	As needed
GEMET - INSPIRE themes, version 1.0	<ul style="list-style-type: none"> Environmental monitoring facilities Habitats and biotopes
Keywords	
Keywords	
GEMET	<ul style="list-style-type: none"> above-ground biomass growth productivity trend productivity above-ground biomass vegetation
Continents, countries, sea regions of the world.	<ul style="list-style-type: none"> EEA39
Spatial scope	<ul style="list-style-type: none"> European
EEA Management Plan	<ul style="list-style-type: none"> 2019 1.8.2
EEA topics	<ul style="list-style-type: none"> Agriculture and food Land use Forests and forestry
Access constraints	Other restrictions

Other constraints	no limitations to public access
Use constraints	Other restrictions
Other constraints	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 (http://www.eea.europa.eu/legal/copyright). Copyright holder: European Environment Agency (EEA).
Aggregate Datasetidentifier	1be91ed4-2eb1-46d6-8453-5246c9e9d446
Association Type	Cross reference
Aggregate Datasetidentifier	f4b01c76-29f7-4075-b13f-5dc5a9c18ae2
Association Type	Cross reference
Aggregate Datasetidentifier	f5e0c7e9-7c44-477f-950b-7c092fa0f7a8
Association Type	Cross reference
Aggregate Datasetidentifier	4635cd57-65d9-47b4-b18e-98a781ef27bb
Association Type	Cross reference
Spatial representation type	Grid
Distance	500 500 m
Language of dataset	English
Topic category	<ul style="list-style-type: none"> • Environment

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

Conformance result

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

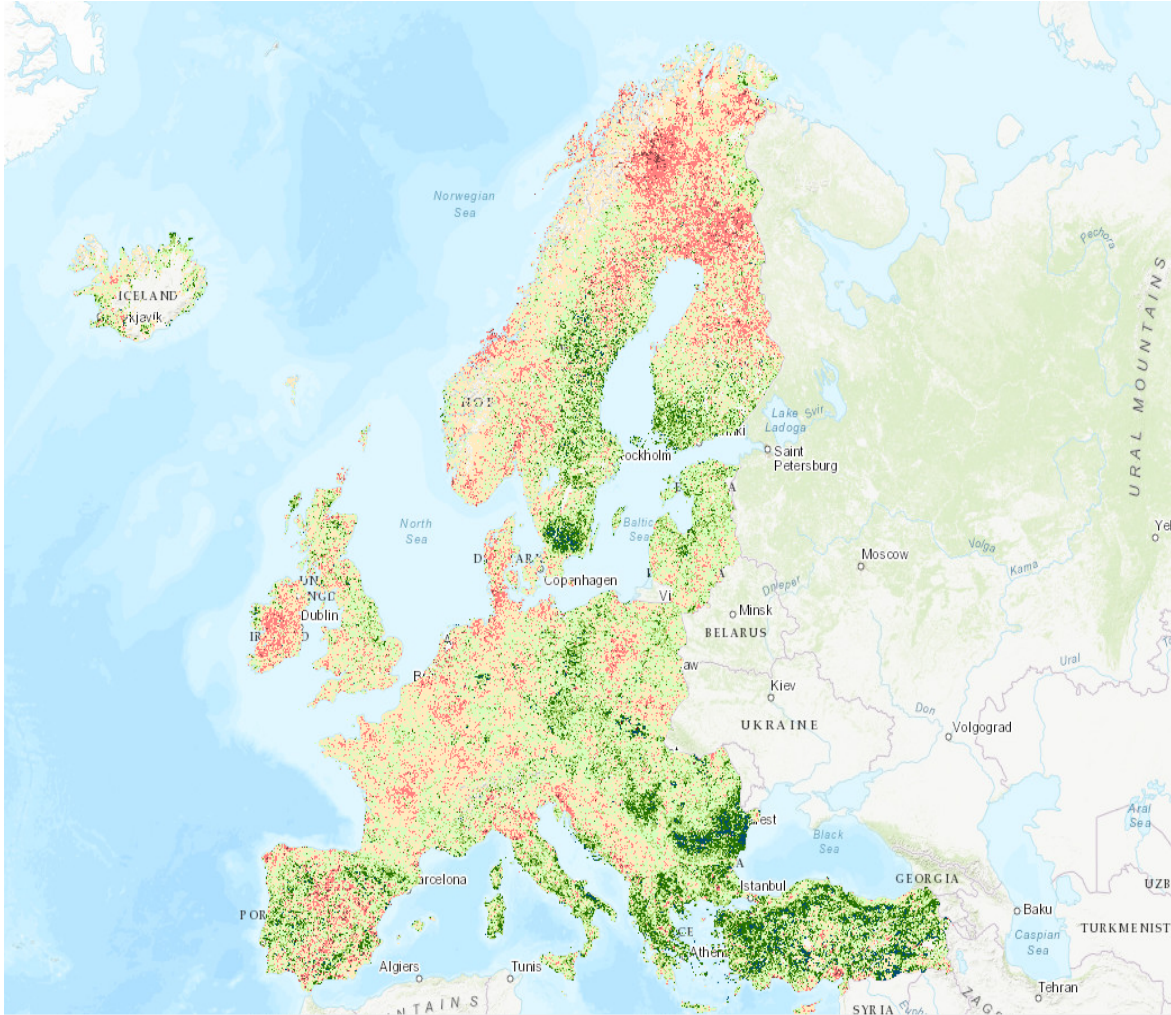
Statement	<p>The dataset computation steps are:</p> <ul style="list-style-type: none"> Calculation of the PPI index from the MODIS MCD43 NBAR product Extraction of the area under the PPI temporal curve above the baseline (large integral - LINT) for each year of the 2000 – 2016 period using the TIMESAT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

Metadata

File identifier	42012fdb-4612-41fb-a8f2-a195692ecf24 XML
Metadata language	English
Character set	UTF8
Hierarchy level	Dataset
Date stamp	2020-07-10T15:41:02Z
Metadata standard name	ISO 19115/19139

Metadata standard version	1.0								
Metadata author	<table border="0"> <tr> <td>Organisation name</td> <td>Individual name</td> <td>Electronic mail address</td> <td>Website Role</td> </tr> <tr> <td>European Environment Agency</td> <td></td> <td>sdi@eea.europa.eu</td> <td>Point of contact</td> </tr> </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



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