



Normalised Difference Vegetation Index 2014-present (raster 300 m), global, 10-daily - version 3

The Normalised Difference Vegetation Index (NDVI) is a widely used, dimensionless index that is indicative for vegetation greenness and is defined as $NDVI = (NIR - Red) / (NIR + Red)$ where NIR corresponds to the reflectance in the near infrared bands, and Red to the reflectance in the red bands.

The product provides 10-daily estimates available at global scale in the spatial resolution of 300 m and with the temporal extent from 2014 to present.

Simple

Identification info

Date (Creation)	2025-11-26		
Date (Publication)	2025-12-12		
Edition	3.0		
Edition date	2020-01-01T00:00:00		
Citation identifier	clms_r_4326_300_m_ndvi-10daily-global_p_2014-now_v3_r00		
Citation identifier	clms_global_ndvi_300m_v3_10daily		
	Title	CDSE	
	Date (Revision)	2025-12-12	

Identifier

Code	10.2909/905223f4-2c3d-4cb6-ad8c-d6d065707465
Codespace	doi.org
Description	Digital Object Identifier (DOI)

Other citation details	https://land.copernicus.eu/en/products/vegetation/normalised-difference-vegetation-index-v2-0-300m
Purpose	This product is first designed to fit the requirements of the Global component of the Copernicus Land Monitoring service. It can be also useful for all applications related to environment monitoring.
Credit	NDVI products are generated by the Land Monitoring Service of Copernicus, the Earth Observation programme of the European Commission. The research leading to the current version of the product has received funding from various European Commission Research and Technical Development programs. The product is based on PROBA-V 333m data (copyright BELSPO and distribution by ESA) and Sentinel-3 333m data (copyright EU Copernicus and distribution by ESA).
Credit	The product is based on Copernicus Sentinel-3 data (copyright governed by the Legal notice on the use of Copernicus Sentinel Data and Service Information - https://sentinels.copernicus.eu/documents/247904/690755/Sentinel_Data_Legal_Notice).

Point of contact	Organisation	Individual	Electronic mail address	Website	Role
	European Commission			https://commission.europa.eu	Owner
	Copernicus Land Monitoring Service				Custodian

	<p>European Commission's Joint Research Centre</p> <p>Copernicus Land Monitoring Service helpdesk</p> <p>JRC- https://land.copernicus.eu Land@ec.europa.eu</p> <p>https://joint-research-centre.ec.europa.eu/ Publisher</p> <p>JRC- https://land.copernicus.eu/en/contact-service-helpdesk Point of contact</p>
Spatial representation type	Grid
Spatial resolution	
Spatial resolution	0.0029761905 deg
Topic category	<ul style="list-style-type: none"> • Imagery base maps earth cover • Biota • Farming • Environment
Extent	



Extent

Temporal extent

Time period	10-daily 10-daily 2014-01-01T00:00:00
Maintenance and update frequency	As needed
mmi:updateScope	Series

Resource format

Title	netCDF
Alternate title	Network Common Data Form
Date	
Edition	4

EEA topics	<ul style="list-style-type: none"> • Agriculture and food
Spatial scope	<ul style="list-style-type: none"> • Global
Continents, countries, sea regions of the world.	<ul style="list-style-type: none"> • World
GEMET - INSPIRE themes, version 1.0	<ul style="list-style-type: none"> • Orthoimagery
GEMET	<ul style="list-style-type: none"> • vegetation
Theme	<ul style="list-style-type: none"> • density • cover • growth • ndvi
Place	<ul style="list-style-type: none"> • GLOBAL
Temporal	<ul style="list-style-type: none"> • Dekad • 10-daily

Resource constraints

Access constraints	Other restrictions
Other constraints	no limitations to public access

Resource constraints

Use constraints	Other restrictions
Other constraints	<p>The Copernicus component is governed by Regulation (EU) No 2021/696 of the European Parliament and of the Council of 28 April 2021 establishing the Union Space Programme and the European Union Agency for the Space Programme and repealing Regulations (EU) No 912/2010, (EU) No 1285/2013 and (EU) No 377/2014 and Decision No 541/2014/EU. Within the Copernicus component, a portfolio of land monitoring activities has been delegated by the European Union to the European Environment Agency (EEA) and the DG Joint Research Centre of the European Commission.</p> <p>The Copernicus land monitoring products and services are made available on a principle of full, open and free access, as established by the Commission Delegated Regulation (EU) No 1159/2013 of 12 July 2013.</p> <p>Free, full and open access to the products and services of the Copernicus Land Monitoring Service is made on the conditions that:</p> <ol style="list-style-type: none">1. When distributing or communicating Copernicus Land Monitoring Service products and services (data, software scripts, web services, user and methodological documentation and similar) to the public, users shall inform the public of the source of these products and services.2. Where the Copernicus Land Monitoring Service products and services have been adapted or modified by the user, the user shall clearly state this.3. Users shall make sure not to convey the impression to the public that the user's activities are officially endorsed by the European Union.
Language	English
Character encoding	UTF8

Distribution Information

Distribution format	<ul style="list-style-type: none">• netCDF
Fees	Free
Ordering instructions	Products can be downloaded online.
Units of distribution	Per product
OnLine resource	OGC WMTS
OnLine resource	Copernicus Data Space Ecosystem download services
Units of distribution	Per product
OnLine resource	Copernicus Browser
OnLine resource	Digital Object Identifier (DOI)

Data quality info

Hierarchy level	Dataset
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Report

Result

Title	Validation results conform CEOS LPV guidelines
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Date (Publication)	2025-11-07
Explanation	https://land.copernicus.eu/en/products/vegetation/normalised-difference-vegetation-index-v3-0-300m
Pass	1

Report

Result

Title	COMMISSION REGULATION (EU) No 1089/2010 of 23 November 2010 implementing Directive 2007/2/EC of the European Parliament and of the Council as regards interoperability of spatial data sets and services
Date (Publication)	2010-12-08
Explanation	This data set is conformant with the INSPIRE Implementing Rules for the interoperability of spatial data sets and services.
Pass	true

Report

Result

Title	INSPIRE Data Specification on orthoimagery - Guidelines
Date (Publication)	2010-04-26
Explanation	See the referenced specification
Pass	true

Resource lineage

Statement	The NDVI is calculated from global, 10-daily, BRDF normalised, top-of-canopy reflectances derived from four bands of Sentinel-3 / OLCI optical observations. Prior to NDVI calculation, the two narrow RED TOC-r bands and the two narrow NIR TOC-r bands are converted to a broad RED and NIR reflectance by averaging. The NDVI is calculated using the RED and NIR reflectance values while filtering sea pixels, out-of-range and missing input reflectances. When less-than-optimal input reflectances are used, this is indicated as a quality flag.
Hierarchy level	Dataset

Spatial representation info

Number of dimensions	2
Dimension name	Row
Dimension size	47040
Resolution	0.0029761905
Dimension name	Column
Dimension size	120960
Resolution	0.0029761905
Cell geometry	Area
Transformation parameter availability	false
Check point availability	true

Check point description	Upperleft corner tiepoint
Description	Upperleft corner tiepoint
Identifier	upperLeftTiePoint
Name	Tie Point in upper left corner
Pixel orientation code	

Reference System Information

Reference System Information

Code	EPSG:4326
Maintenance and update frequency	As needed

Metadata

Metadata identifier	905223f4-2c3d-4cb6-ad8c-d6d065707465												
Language	English												
Character encoding	UTF8												
Contact	<table border="0"> <thead> <tr> <th>Organisation</th> <th>Individual</th> <th>Electronic mail address</th> <th>Website</th> <th>Role</th> </tr> </thead> <tbody> <tr> <td>Copernicus Land Monitoring Service</td> <td></td> <td>JRC-Copernicus-Land@ec.europa.eu</td> <td>https://land.copernicus.eu</td> <td>Point of contact</td> </tr> </tbody> </table>	Organisation	Individual	Electronic mail address	Website	Role	Copernicus Land Monitoring Service		JRC-Copernicus-Land@ec.europa.eu	https://land.copernicus.eu	Point of contact		
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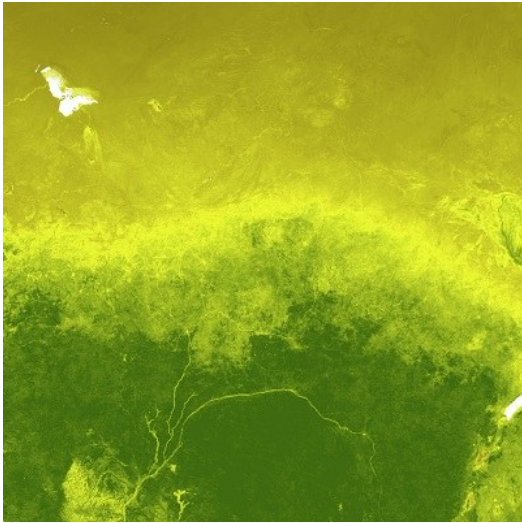
Type of resource

Resource type	Dataset
Metadata linkage	https://sdi.eea.europa.eu/catalogue/srv/api/records/905223f4-2c3d-4cb6-ad8c-d6d065707465
Date info (Creation)	2026-02-05T11:13:20.988339Z
Date info (Revision)	2026-02-06T11:37:58.543887Z

Metadata standard

Title	ISO 19115/19139
Edition	1.0

Overviews



Example of NDVI map

Provided by

