Global 10-daily Fraction of Vegetation Cover 333m

The Fraction of Vegetation Cover (FCover) corresponds to the fraction of ground covered by green vegetation.

Practically, it quantifies the spatial extent of the vegetation. Because it is independent from the

illumination direction and it is sensitive to the vegetation amount, FCover is a very good candidate

for the replacement of classical vegetation indices for the monitoring of ecosystems.

The product at 333m resolution is provided in Near Real Time and consolidated in the next six periods.

Proposition de citation
European Commission Directorate-General Joint Research Centre. Global 10-daily Fraction of Vegetation Cover 333m. http://land.copernicus.vgt.vito.be/geonetwork/srv/api/records/urn:cgls:global:fcover300_v1_333m

Simple

Date (Creation)
2017-01-01

Edition
Version 1

Edition date
2017-01-01

Identifier
urn:cgls:global:fcover300_v1_333m

Date (Revision)
2016-01-01

Other citation details
http://land.copernicus.eu/global/documents/fcover300/v1/pum

Purpose
This product is first designed to fit the requirements of the Global component of Land Service of the Copernicus programme. It can be also useful for all applications related to the environment monitoring.

Credit
FCOVER products were generated by the Global Land 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 VITO NV).

Status
completed Completed

Principal investigator

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Hours of service

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    [VITO NV website](#)

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Protocol
    http://ies.jrc.ec.europa.eu

Name
    EC DG-JRC Institute for Environment and Sustainability

Description
    Organization website

Function
    information Information

Maintenance and update frequency
    asNeeded As needed

Update scope
    series Series

Name
    NetCDF

Version
    4.2.1.1

Specification
    Network Common Data Form

GEMET - INSPIRE themes, version 1.0 (Theme)

- Orthoimagery

GEMET - Concepts, version 2.1

- geophysical environment

Mots clés (Theme)

- biogeophysical , leaf area

Mots clés (Place)

- GLOBE

Mots clés (Temporal)

- Dekad , 10-daily composite

Copernicus Themes (Theme)

- Vegetation

Copernicus Variables (Theme)

- FCOVER

Use limitation
No limitations

Use constraints
@copernicus.eu Copyright

Access constraints
data policy @copernicus.eu Other restrictions

Other constraints
(d) the confidentiality of commercial or industrial information, where such confidentiality is provided for by national or Community law to protect a legitimate economic interest, including the public interest in maintaining statistical confidentiality and tax secrecy.

Association Type
partOfSeamlessDatabase Part of seamless database

Initiative Type
project Project

Association Type
source Source

Initiative Type
Proba-V Platform

Association Type
source Source

Initiative Type
VEGETATION Sensor

Spatial representation type
Grid

Distance
0.0029761905 http://standards.iso.org/ittf/PubliclyAvailableStandards/ISO_19139_Schemas/resources/uom/ML_gmxUom.xml#deg

Metadata language
eng

Character set
utf8 UTF8

Topic category

- Imagery base maps earth cover
- Biota
- Farming
- Environment

N

S

E

W

Time period
10-daily compositedekad2014-01-01T00:00:002019-12-31T23:59:59

Reference system identifier
EPSG Geodetic Parameter Dataset / EPSG:4326

Reference system identifier
World Geodetic System / WGS84

Number of dimensions
>   2

Dimension name
>   row Row

Dimension size
>   47040

Resolution
>   0.0029761905 deg

Dimension name
>   column Column

Dimension size
>   120960

Resolution
>   0.0029761905 deg

Cell geometry
>   area Area

Transformation parameter availability
>   false

Checkpoint Availability
>   true

Checkpoint Description
>   Upperleft corner tiepoint

Point in Pixel

- Center

Distribution format

- NetCDF (4.2.1.1)

    Specification
    >   Network Common Data Form

Distributor

Distributor

[VITO NV](#)
Boeretang 200 Mol 2400 Belgium

Hours of service
>   *Office hours, 7 days per week*

Contact instructions
>   *Preferably by e-mail*

Website
>   *[Data portal](#)*

>   *Project portal*

Fees
>   Free by ftp and EUMETCast; cost of medium by DvD or tape

Ordering instructions
>   Products can be downloaded online via HTTP (or FTP) or can be received through EUMETCast satellite reception in Europe, Africa and Latin-America. When ordering products from the online archive or subscribing to receive future products, users are informed via e-mail whenever the requested products are ready to be downloaded on the FTP server.

Units of distribution
>   Per product

OnLine resource
>   [Copernicus Global Land Service](#)

>   1. Search, download and custom order products from Catalogue and Ordering services

OnLine resource

2. Subscribe to receive future products via e-mail

Units of distribution
Per product

OnLine resource

3. Register to receive products via EUMETCast

Hierarchy level
series Series

Conformance result

Date (Publication)
2010-12-01

Explanation
http://land.copernicus.eu/global/documents/fcover300/v1
/vr

Pass
1

Conformance result

Date (Publication)
2010-04-26

Explanation
See the referenced specification

Pass
true

Statement
The input data are the daily Top of the Atmosphere reflectances measured by the sensor at 1/3 km. The calibrated reflectances are used to calculate instantaneous estimates of the products using a neural network trained with MODIS and CYCLOPES products, removing outliers as clouds and their shadows and atmospherically corrected (SMAC). In a second stage these instantaneous first guess of products are composited using an asymmetric period. The compositing is performing a temporal smooth and gap fill operation based on the land cover type (Evergreen Broadleaf Forest or not).

gmd:MD_Metadata

File identifier
urn:cgls:global:fcover300_v1_333m XML

Metadata language
eng English

Character set
utf8 UTF8

Hierarchy level
series Series

Date stamp
2017-01-02

Metadata standard name
ISO19115

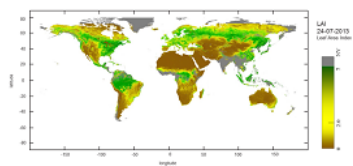Metadata standard version
2003/Cor.1:2006

Point of contact

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Website

Copernicus Global Land website

Aperçus

Quick-look image of FCOVER layer, with width and height sub-sampled to 5% of their original dataset size.

Fourni par

Partager

Ressources associées

Not available