EEA geospatial data catalogue

Reference Land Cover in Lomami 2015-2019 (vector) - version 1, Sep. 2019

This metadata refers to the Land Cover vector data generated over Lomami (Africa) for 2016 in the framework of the Copernicus Global Land Hot Spot Mapping (C-GL-HSM) contract under the coordination of JRC.

This area of interest is either mapped with the generic 8 classes dichotomus legend (CAF_15_lc_a) or the detailed modular legend (CAF_15_lc_b).

The mapped area of interest (AOI) represents a Key Landscape for Conservation area (KLC). It is situated in the central part of the Democratic Republic of Congo (DRC). The KLC has a total size of about 3.1 million ha (31,000 km²), while the Lomami National Park within the KLC has a total area of 8,873 km².

The Lomami National Park is the most recent established park in DRC, created in 2016. The park lies in the mostly undiscovered Lomami rainforest basin with very little human settlements and activities. Tropical lowland forest, savannah islands and riverine forest characterise the area. The park is rich in wildlife including large national endemic mammals such as okapi, the Congolese bonobo and a newly discovered monkey species named lesula (cercopithecus lomamiensis). Prior to park establishment the outer forests were mostly depleted of large animals by the commercial bushmeat trade (causing the nearly local extinction of the forest elephant in the southern part of the park). (https://www.congonationalparks.com/places/lomami-national-park/).

Reference time: 2016 - 2019

Simple

Date (Creation)	2019-09-13
Date (Publication)	2019-09-13
Date (Revision)	2019-09-13
Edition	01.00
Citation identifier	jrc_v_4326_30_m_c-gl-hsm-lomami_p_2015-2019_v01_r00

Point of contact

No information provided.

Point of contact

No information provided.

Point of contact

No information provided.

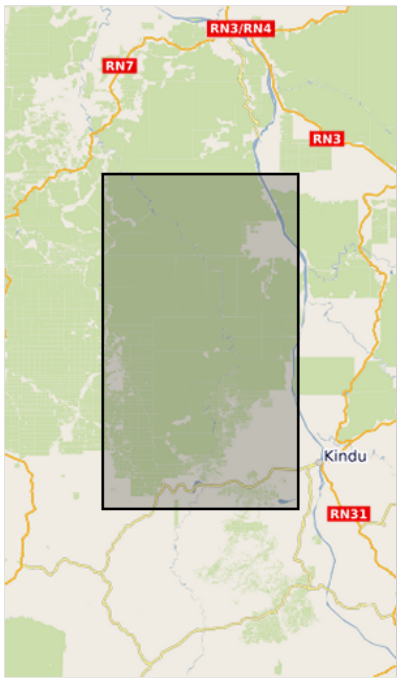
Point of contact

No information provided.

Maintenance and update frequency	Not planned
GEMET - INSPIRE themes, version 1.0	• Land cover • Human health and safety
Keywords	
Continents, countries, sea regions of the world.	• Democratic Republic of the Congo • Africa
Keywords	
GEMET	• landscape alteration

	• land cover • land use • landscape • land
Spatial scope	• Regional
EEA topics	• Environmental health impacts • Land use
Temporal resolution	• Not planned
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”.
Spatial representation type	Vector
Distance	30 m
Denominator	30000
Language of dataset	English
Character set	UTF8
Topic category	• Geoscientific information • Environment • Imagery base maps earth cover

-0.66	N	-3.32	S	25.75	E	24.20	W



Begin date	2015-01-01
End date	2019-12-31
Additional Information	The World Database on Protected Areas (WDPA 2019) has been used in the Copernicus Global Land Hot Spot mapping (C-GL-HSM) contract under the coordination of JRC to obtain statistics on land cover changes inside and outside the protected areas. To see how much of the Key Landscapes for Conservation area is a Protected Area, consult the WMS service found at the Service section of this metadata.
Coordinate reference system identifier	EPSG:4326
Distribution format	• SHP (1.0)

OnLine resource

Protocol	Linkage	Name
WWW:URL	https://land.copernicus.eu/en/products/lclcc-hot-spots/present_land_cover#download	Lomami – Dichotomous and Modular Reference Land Cover
OGC:WMS	https://geospatial.jrc.ec.europa.eu/geoserver/hotspots/wms	all_present_lc_b_pol
WWW:LINK-1.0-http--link	https://land.copernicus.eu/global/hsm	HotSpot Land Cover Change Explorer
OGC:WMS	https://geospatial.jrc.ec.europa.eu/geoserver/hotspots/wms	all_present_lc_a_pol
WWW:DOWNLOAD-1.0-http--download	https://land.copernicus.eu/en/technical-library/lomami-klc-area-report-file-2000-2013-2015/@@download/file	Report file for download
WWW:DOWNLOAD-1.0-http--download	https://land.copernicus.eu/en/technical-library/lomami-klc-area-validation-file-2000-2013-2015/@@download/file	Validation file for download
WWW:URL	https://land.copernicus.eu/en/products/lclcc-hot-spots/satellite_images	Satellite images
OGC:WMS	https://geospatial.jrc.ec.europa.eu/geoserver/hotspots/wms	protected_areas

OnLine resource

No information provided.

Hierarchy level	Dataset

Conformance result

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

Statement

e-GEOS Production Site produced this product by satellite analyses in the context of the Copernicus Global land Hot Spot Mapping (C-GL-HSM) framework.

Data and products are based on medium to high and very high resolution satellite images (from approximately 1 to 30m spatial resolution) with a change assessment frequency between 1 to 20 years. The Image data sources used for mapping are Landsat 7 and 8. The validation process made use of Spot-6 and Sentinel-2 images as reference data.

Images temporal range: 2013-2019

It is the time frame that has been accepted to collect the satellite images useful to produces the vector data.

The Reference year is included in this time frame and correspond to mean year considering all the image's year used. It is the year on which the majority of the used images are.

The classification scheme follows the Land Cover Classification System (LCCS) developed by the United Nations Food and Agriculture Organization (FAO).

Since LCCS is a hierarchical system, the modular legend can be aggregated to the dichotomus legend.

The FAO LCCS handbook which describes each class in detail, can be downloaded here: http://www.fao.org/3/a-i5232e.pdf

This LCCS Land Cover map includes the following land cover classes (associated raster code in [ ]):

A11 - Cultivated and Managed Terrestrial Area(s) [3]

A12 - Natural And Semi-Natural Primarily Terrestrial Vegetation [4]

A23 - Cultivated Aquatic or Regularly Flooded Area(s) [6]

A24 - Natural And Semi-Natural Aquatic or Regularly Flooded Vegetation [7]

B15 - Artificial Surfaces and Associated Area(s) [0]

B16 - Bare Area(s) [11]

B27 - Artificial Waterbodies, Snow and Ice [13]

B28 - Natural Waterbodies, Snow and Ice [14]

The produced and independently validated Land Cover and Land Cover Change maps and statistics are available to global users.

The report and the validation file can be downloaded from the link section.

Basic image processing: Cloud/Shadow masking, Data Selction (based on occlusion and sesonality considerations), Atmospheric correction (TOA) of satellite data, Coregistration.

Automatic classification: Feature extraction from Dense Multitemporal Time Series (D MTS), statistics generation, automatic classificaiton (ROI based or decision tree) and labeling according to the required output LCCS legend schema.

Visual inspection and refiment: check and refinement of the LCCS product generated through the automatic procedure in order to corrected classification errors and to refine borders where necessary.

Internal validation: independent validation of the LCCS product based on external reference data (where available) and on other datasets for intercomparison. The scope of the internal validation is to make a qualitative and quantitavie check of the declared Thematic and Positional accuracies.

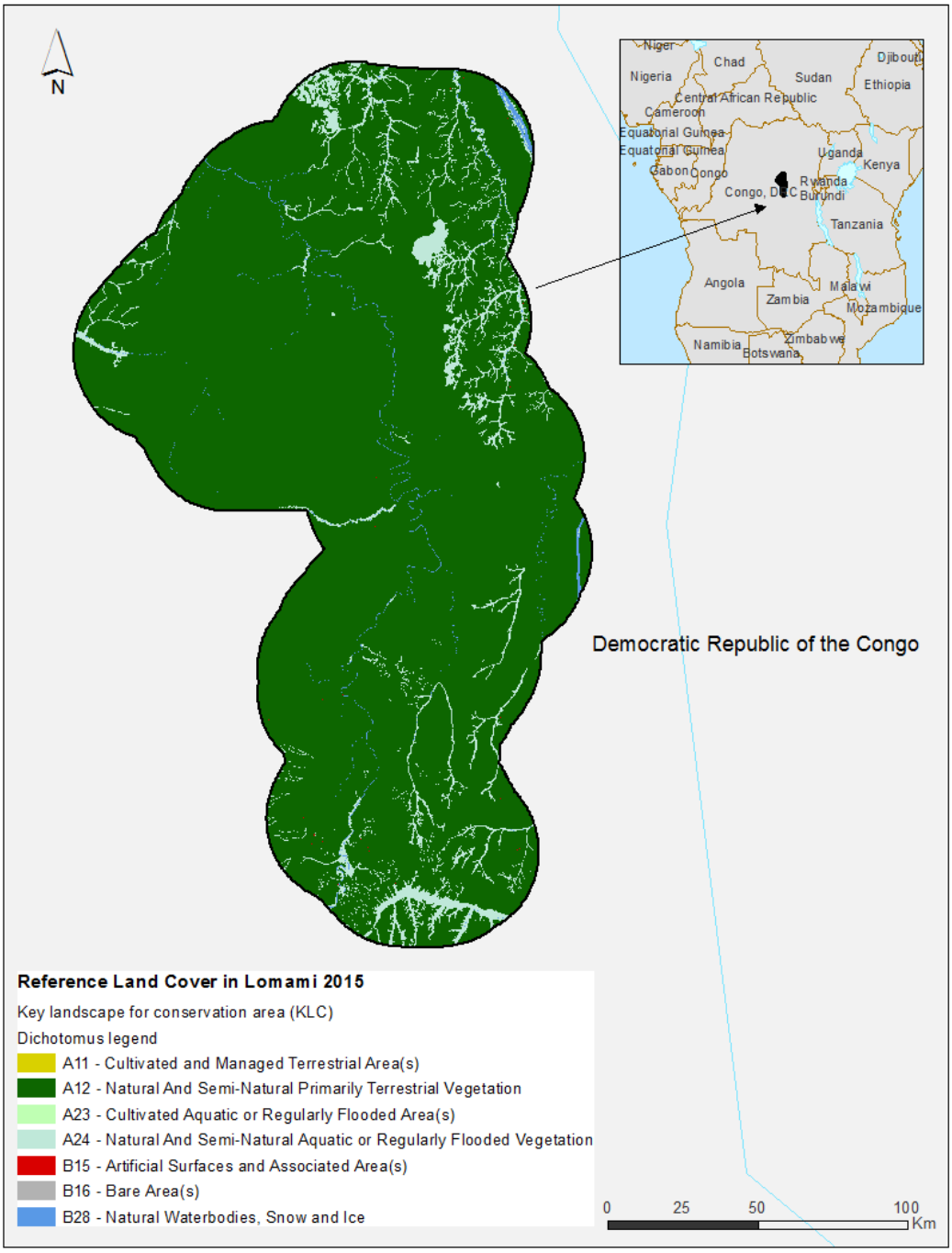
Metadata

File identifier	c07b11ef-db52-4008-8514-a263b1ced9e5 XML
Metadata language	English
Character set	UTF8
Hierarchy level	Dataset
Date stamp	2023-12-19T10:42:57.757Z
Metadata standard name	ISO 19115/19139
Metadata standard version	1.0

Metadata author

No information provided.

Overviews



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