



Reference Land Cover in Cross River-Takamanda-Mt Cameroon-Korup 2015-2019 (vector) - version 1, Feb. 2020

This metadata refers to the Land Cover vector data generated over Cross River-Takamanda-Mt Cameroon-Korup (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_01_lc_a) or the detailed modular legend (CAF_01_lc_b).

The mapped area of interest (AOI) represents a key landscape for conservation area (KLC).

This transboundary KLC has a total size of almost 8 million ha (80,000 km²) and is situated between the border of Nigeria and Cameroon. It includes several areas under protection including:

In the north-eastern sector the National Parks of Faro, Gashaka-Gumti and Tchabal Mbabo. This area is characterised mainly by savannah grassland and some very mountainous regions with mountain forests. Gashaka-Gumti is Nigeria's largest National Park (6730 km²) established for the conservation of biodiversity and for the support of rural development and traditional livelihood.

Reference time: 2015 - 2019

Simple

Date (Creation)	2020-02-21				
Date (Publication)	2020-02-21				
Date (Revision)	2020-02-21				
Edition	01.00				
Citation identifier	jrc_v_4326_30_m_c-gl-hsm-nigeria-cameroon_p_2015-2019_v01_r00				
Point of contact	Organisation name	Individual name	Electronic mail address	Website	Role
	European Commission			https://commission.europa.eu	Owner
	Copernicus Land Monitoring Service		copernicus@eea.europa.eu	https://land.copernicus.eu	Custodian
	European Commission's Joint Research Centre			https://joint-research-centre.ec.europa.eu/	Publisher
	Copernicus Land Monitoring Service helpdesk		copernicus@eea.europa.eu	https://land.copernicus.eu/en/contact-service-helpdesk	Point of contact
Maintenance and update frequency	Not planned				
GEMET - INSPIRE themes, version 1.0	<ul style="list-style-type: none"> Land cover Human health and safety 				
Keywords					
Continents, countries, sea regions of the world.	<ul style="list-style-type: none"> Africa Cameroon Nigeria 				

Keywords	
GEMET	<ul style="list-style-type: none"> • land • land cover • landscape alteration • land use • landscape
Spatial scope	<ul style="list-style-type: none"> • Regional
EEA topics	<ul style="list-style-type: none"> • Land use • Environmental health impacts
Temporal resolution	<ul style="list-style-type: none"> • Not planned
Access constraints	Other restrictions
Other constraints	no limitations to public access
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.
Spatial representation type	Vector
Distance	30 m
Denominator	30000
Language of dataset	English
Character set	UTF8
Topic category	<ul style="list-style-type: none"> • Geoscientific information • Environment • Imagery base maps earth cover



Begin date	2015-01-01		
End date	2019-12-31		
Additional Information	<p>The central part of the AOI is characterized by the presences of several protected areas (forest reserves or wildlife sanctuary, parks, etc.) among which the most extended are Kashimbila game reserve and Kimbi-Fungom National Park. Finally, the southern part is home to four main National Parks, including: Cross River National Park which is characterized by two separate sections, Okwangwo in the north, and Oban in the south. The park has one of the oldest rainforests in Africa, and has been identified as a biodiversity hot spot.</p> <p>Adjacent on the Cameroon side is the Korup National Park, also distinguished by undisturbed primary forest. The Takamanda National Park has been established in 2008 to protect the endangered cross river gorilla.</p> <p>Lastly, the Mount Cameroon National Park on the coast in the Gulf of Guinea represents another biodiversity hotspot. The peak denotes the highest mountain in west and central Africa (4070 m altitude). The vegetation zones stretch from evergreen lowland rain forests near sea level through sub-montane and montane forest (here some of the wettest places in the World with 10,000 mm rain fall can be found), to montane and sub-alpine grassland on the top. Mount Cameroon is also an active volcano.</p> <p>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.</p> <p>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.</p>		
Coordinate reference system identifier	EPSG:4326		
Distribution format	<ul style="list-style-type: none"> • SHP (1.0) 		
OnLine resource	Protocol	Linkage	Name
	WWW:URL	https://land.copernicus.eu/en/products/lclcc-hot-spots/present_land_cover#download	Cross River-Takamanda-Mt Cameroon-Korup – 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://hsm.land.copernicus.eu/	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/cross-river-takamanda-mt-cameroon-klc-area-report-file-2000-2015/@@download/file	Report file for download
	WWW:DOWNLOAD-1.0-http--download	https://land.copernicus.eu/en/technical-library/cross-river-takamanda-mt-cameroon-klc-area-validation-file-2000-2015/@@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

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	See the referenced specification
Pass	Yes

Statement	<p>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.</p> <p>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.</p> <p>Images temporal range: 2013-2019</p> <p>It is the time frame that has been accepted to collect the satellite images useful to produce the vector data.</p> <p>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.</p> <p>The classification scheme follows the Land Cover Classification System (LCCS) developed by the United Nations Food and Agriculture Organization (FAO).</p> <p>Since LCCS is a hierarchical system, the modular legend can be aggregated to the dichotomous legend.</p> <p>The FAO LCCS handbook which describes each class in detail, can be downloaded here: http://www.fao.org/3/a-i5232e.pdf</p> <p>This LCCS Land Cover map includes the following land cover classes (associated raster code in []):</p> <p>A11 - Cultivated and Managed Terrestrial Area(s) [3]</p> <p>A12 - Natural And Semi-Natural Primarily Terrestrial Vegetation [4]</p> <p>A23 - Cultivated Aquatic or Regularly Flooded Area(s) [6]</p> <p>A24 - Natural And Semi-Natural Aquatic or Regularly Flooded Vegetation [7]</p> <p>B15 - Artificial Surfaces and Associated Area(s) [0]</p> <p>B16 - Bare Area(s) [11]</p> <p>B27 - Artificial Waterbodies, Snow and Ice [13]</p> <p>B28 - Natural Waterbodies, Snow and Ice [14]</p> <p>The produced and independently validated Land Cover and Land Cover Change maps and statistics are available to global users.</p> <p>The report and the validation file can be downloaded from the link section.</p> <p>Basic image processing: Cloud/Shadow masking, Data Selection (based on occlusion and seasonality considerations), Atmospheric correction (TOA) of satellite data, Coregistration.</p> <p>Automatic classification: Feature extraction from Dense Multitemporal Time Series (D MTS), statistics generation, automatic classification (ROI based or decision tree) and labeling according to the required output LCCS legend schema.</p>
------------------	---

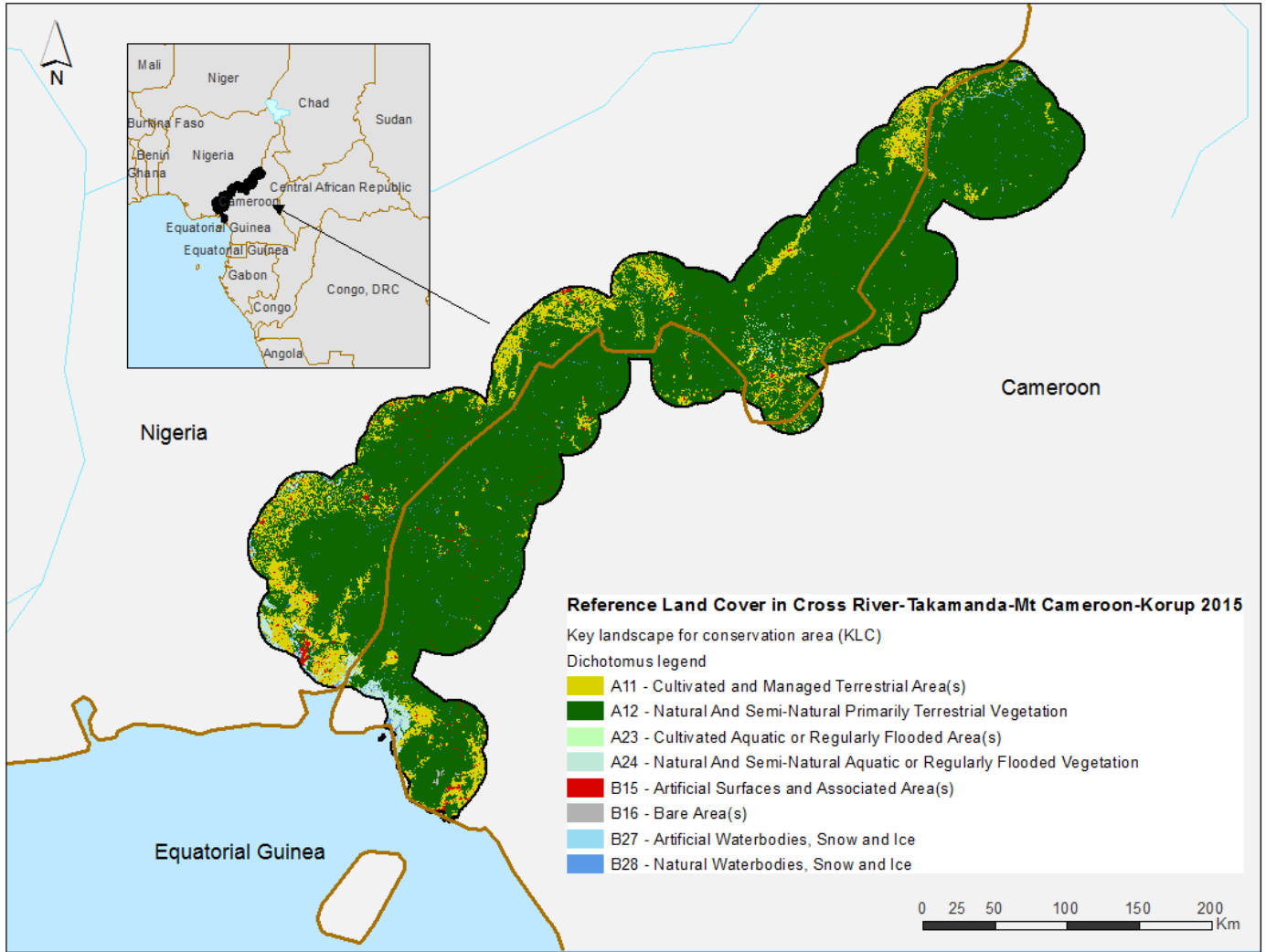
Visual inspection and refinement: check and refinement of the LCCS product generated through the automatic procedure in order to corrected classification errors and to refine borders where necessary.

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 quantitative check of the declared Thematic and Positional accuracies.

Metadata

File identifier	450107d1-d7a8-4a7f-8edf-b941468ea698 XML			
Metadata language	English			
Character set	UTF8			
Hierarchy level	Dataset			
Date stamp	2024-07-22T09:22:48.2596Z			
Metadata standard name	ISO 19115/19139			
Metadata standard version	1.0			
Metadata author	Organisation name	Individual name	Electronic mail address	Website Role
	Copernicus Land Monitoring Service		copernicus@eea.europa.eu	https://land.copernicus.eu Point of contact

Overviews



Provided by

