

## Reference Land Cover in Great Limpopo 2015-2018 (vector) - version 1, April 2019

This metadata refers to the Land Cover vector data generated over Limpopo (Africa) for 2015 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 (SAF\_02\_lc\_a) or the detailed modular legend (SAF\_02\_lc\_b).

The mapped area of interest (AOI) represents a Key Landscape for Conservation area (KLC). The Great Limpopo trans frontier park involves three different parks: Kruger National Park (South Africa), Limpopo National Park (Mozambique) and Gonarezhou National Park (Zimbabwe). The memorandum of understanding for the creation of conservation area was signed on November 2000.

The floodplains of the Limpopo River are fertile and heavily populated. The southern hemisphere sees its rainy season, where precipitation exceeds 60 mm, roughly from October to March, and its dry one from around April to September. The area around the park is dense of villages and the agriculture is the primary activity.

Reference time: 2015 - 2018

### Simple

<b>Date (Creation)</b>	2019-04-18
<b>Date (Publication)</b>	2019-04-18
<b>Date (Revision)</b>	2019-04-18
<b>Edition</b>	01.00
<b>Citation identifier</b>	jrc_v_4326_30_m_c-gl-hsm-limpopo_p_2015-2018_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.

<b>Maintenance and update frequency</b>	Not planned
<b>GEMET - INSPIRE themes, version 1.0</b>	<ul style="list-style-type: none"> <li>Human health and safety</li> <li>Land cover</li> </ul>
<b>Keywords</b>	
<b>Continents, countries, sea regions of the world.</b>	<ul style="list-style-type: none"> <li>South Africa</li> <li>Zimbabwe</li> <li>Mozambique</li> <li>Africa</li> </ul>
<b>Keywords</b>	

<b>GEMET</b>	<ul style="list-style-type: none"> <li>• landscape alteration</li> <li>• land</li> <li>• landscape</li> <li>• land use</li> <li>• land cover</li> </ul>
<b>Spatial scope</b>	<ul style="list-style-type: none"> <li>• <a href="#">Regional</a></li> </ul>
<b>EEA topics</b>	<ul style="list-style-type: none"> <li>• Environmental health impacts</li> <li>• Land use</li> </ul>
<b>Temporal resolution</b>	<ul style="list-style-type: none"> <li>• Not planned</li> </ul>
<b>Access constraints</b>	Other restrictions
<b>Other constraints</b>	<a href="#">no limitations to public access</a>
<b>Use constraints</b>	Other restrictions
<b>Other constraints</b>	<p>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.</p> <p>Free, full and open access to this data set is made on the conditions that:</p> <ol style="list-style-type: none"> <li>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.</li> <li>2. Users shall make sure not to convey the impression to the public that the user's activities are officially endorsed by the Union.</li> <li>3. Where that data or information has been adapted or modified, the user shall clearly state this.</li> <li>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".</li> </ol>
<b>Spatial representation type</b>	Vector
<b>Distance</b>	30 m
<b>Denominator</b>	30000
<b>Language of dataset</b>	English
<b>Character set</b>	UTF8
<b>Topic category</b>	<ul style="list-style-type: none"> <li>• Geoscientific information</li> <li>• Environment</li> <li>• Imagery base maps earth cover</li> </ul>



Begin date	2015-01-01		
End date	2018-12-31		
Additional Information	<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	<a href="#">EPSG:4326</a>		
Distribution format	• SHP ( 1.0 )		
OnLine resource	Protocol	Linkage	Name
	WWW:URL	<a href="https://land.copernicus.eu/en/products/clcc-hot-spots/present_land_cover#download">https://land.copernicus.eu/en/products/clcc-hot-spots/present_land_cover#download</a>	Great Limpopo – Dichotomous and Modular Reference Land Cover
	OGC:WMS	<a href="https://geospatial.jrc.ec.europa.eu/geoserver/hotspots/wms">https://geospatial.jrc.ec.europa.eu/geoserver/hotspots/wms</a>	all_present_lc_b_pol
	WWW:LINK-1.0-http--link	<a href="https://land.copernicus.eu/global/hsm">https://land.copernicus.eu/global/hsm</a>	HotSpot Land Cover Change Explorer
	OGC:WMS	<a href="https://geospatial.jrc.ec.europa.eu/geoserver/hotspots/wms">https://geospatial.jrc.ec.europa.eu/geoserver/hotspots/wms</a>	all_present_lc_a_pol
	WWW:DOWNLOAD-1.0-http--download	<a href="https://land.copernicus.eu/en/technical-library/grand-limpopo-klc-area-report-file-2013-2016/@@download/file">https://land.copernicus.eu/en/technical-library/grand-limpopo-klc-area-report-file-2013-2016/@@download/file</a>	

		Report file for download
WWW:DOWNLOAD-1.0-http--download	<a href="https://land.copernicus.eu/en/technical-library/grand-limpopo-klc-area-validation-file-2013-2016/@_@download/file">https://land.copernicus.eu/en/technical-library/grand-limpopo-klc-area-validation-file-2013-2016/@_@download/file</a>	Validation file for download
WWW:URL	<a href="https://land.copernicus.eu/en/products/clcc-hot-spots/satellite_images">https://land.copernicus.eu/en/products/clcc-hot-spots/satellite_images</a>	Satellite images
OGC:WMS	<a href="https://geospatial.jrc.ec.europa.eu/geoserver/hotspots/wms">https://geospatial.jrc.ec.europa.eu/geoserver/hotspots/wms</a>	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	<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: 2014-2018</p> <p>It is the time frame that has been accepted to collect the satellite images useful to produces 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 dichotomus legend.</p> <p>The FAO LCCS handbook which describes each class in detail, can be downloaded here: <a href="http://www.fao.org/3/a-i5232e.pdf">http://www.fao.org/3/a-i5232e.pdf</a></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>
-----------	---

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.

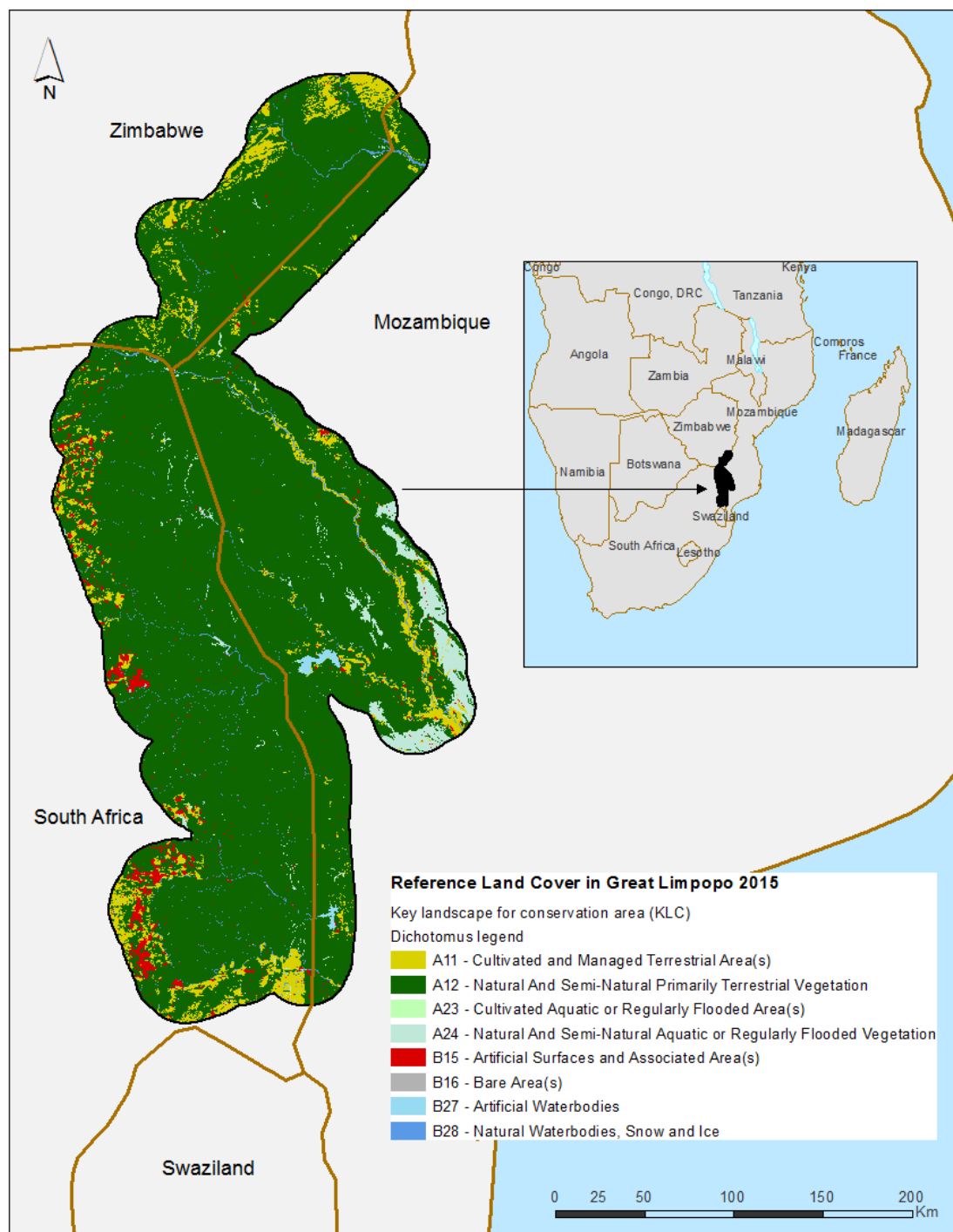
Metadata

File identifier	d156c72b-b7e2-48fe-9d37-6823ac8a4d07 <a href="#">XML</a>
Metadata language	English
Character set	UTF8
Hierarchy level	Dataset
Date stamp	2023-12-19T10:41:38.053Z
Metadata standard name	ISO 19115/19139
Metadata standard version	1.0

Metadata author

No information provided.

Overviews



Provided by

