CARBON SINKS ATLAS FOR SOUTH AFRICA
2013-14 SA National Land-Cover – broad parent classes

Metadata Date Stamp:
20 November 2015

DATASET DESCRIPTION

File Names:

Data:
DEA_2013-2014 LandCover_12classes_1km

Metadata:
DEA_2013-2014 LandCover_12classes_1km_OR_2015_Q4_METADATA

Dataset Reference Date:
April 2013 - March 2014

Data quality:

Very Good – Data derived from the 2013-2014 South African National Land-Cover Dataset produced by GEOTERRAIMAGE (GTI) for the Department of Environmental Affairs (DEA).

Dataset Responsible Party:
Department of Environmental Affairs / Director Enterprise Geospatial Information Management

Geographic Location of the Dataset: *RSA*

West   -717294.00
East   1301256.00
North -2239230.00
South   -4046670.00

Keywords:
Land cover, Land cover 2013-2014

Dataset Language:
English (eng)

Dataset Character Set:
UTF8 - 8 bit data

Dataset Topic Category:
010 = Base Map earth coverage

Dimensions:
X: 1406 Y:1207 Bands: 1

Spatial Resolution of the Dataset:
1000 Meter

No Data Value:
-1

Data Type:
Float32 – Thirty two bit floating point

Raster Format:
GeoTiff

Data Release classification:

Release classification	Description	Time frame	Example
OR	*Official release*	**Quarter 4** *30 November 2015*	*DEA_2013-2014 LandCover_12classes_1km_OR_2015_Q4*

Citation:

Citation Information:

Originator*: GEOTERRAIMAGE (GTI), South Africa*
Website: www.geoterraimage.com
Publication Date: *February 2015, version 05*
Title: *2013-2014 South African National Land-Cover Dataset.*
Location: *Pretoria, South Africa*
Geospatial Data Presentation Form*: Raster digital data*

Citation for Dataset Report: *GEOTERRAIMAGE (GTI) 2015, 2013-2014 South African National Land-Cover Dataset: Data User Report and Metadata. Available from: Department of Environmental Affairs (DEA), The Environment GIS (EGIS) Website: (http://egis.environment.gov.za/) [February 2015]*

Abstract:
The 2013-14 South African National Land-cover dataset produced by GEOTERRAIMAGE as a commercial data product has been generated from digital, multi-seasonal Landsat 8 multispectral imagery, acquired between April 2013 and March 2014. In excess of 600 Landsat images were used to generate the land-cover information, based on an average of 8 different seasonal image acquisition dates, within each of the 76 x image frames required to cover South Africa. The land-cover dataset, which covers the whole of South Africa, is presented in a map-corrected, raster format, based on 30x30m cells equivalent to the image resolution of the source Landsat 8 multi-spectral imagery. The dataset contains 72 x land-cover / use information classes, covering a wide range of natural and man-made landscape characteristics. The original land-cover dataset was processed in UTM (north) / WGS84 map projection format based on the Landsat 8 standard map projection format as provided by the USGS.

For the purposes of the Carbon Atlas, the original 72 land cover classes were reclassified to 12 broad parent classes according to the <u>definitions</u> in Appendix A and hierarchical <u>classes</u> in Appendix E of GTI's Data User and Metadata Report. The colour scheme is similar to the colours used in the 72 original classes.

This new layer serves as a reference for the Carbon layers and was resampled to an equivalent resolution of 1 km. Re-projection from UTM35 to Albers Conic Equal Area projection WGS84 was done.

Purpose:
This data is provided to assist in the interpretation of layers in the on-line South African Carbon Sinks Atlas

Supplemental Information:
None

Lineage Statement:
Data officially released by GTI in February 2015
The original 72 land cover classes at 30m resolution was reclassified to 12 parent classes and resampled to 1km.

ATTRIBUTE INFORMATION

Attribute Description:

Field name	Alias Name	Data Type	Description	Example
Cell value	*Cell value*	*32-bit Floating point*	*This field contains values associated with names of land cover types* *1 Water* *2 Wetland* *3 Forest* *4 Thicket & Dense Bush* *5 Woody / Open-Bush* *6 Grassland* *7 Low Shrubland* *8 Cultivated* *9 Forest Plantation* *10 Mine* *11 Bare* *12 Built-up*	*6*

SUPPLEMENTARY INFORMATION

None

DATA MAINTENANCE

Dataset last updated:
04 February 2015

Time Period of Content:
2013-2014

Maintenance and update frequency:
No updates planned

DISTRIBUTION AND CONSTRAINTS

On/line Resource:
The Environment GIS (EGIS) Website
http://egis.environment.gov.za/
The Department of Environmental Affairs (DEA) must be acknowledged in the use of the data.

The South African Environmental Observation Network (SAEON)
http://www.saeon.ac.za/

Distribution Format:

GeoTIFF

Access constraints:

The data can be obtained from The Department of Environmental Affairs and SAEON shared platform. The department must be acknowledged in the use of the data as per citation information.

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Additional Extent information for the Dataset (Vertical & Temporal):

N/A

Spatial Representation Type:

Raster – Area

Spatial Reference:
Coordinate Reference: GCS_WGS_1984
Projection - Albers_Conic_Equal_Area

Projection:
PROJCS["Albers_Equal_Area_Conic_South_Africa",
GEOGCS["GCS_WGS_1984",
DATUM["D_WGS_1984",
SPHEROID["WGS_1984",6378137,298.257223563]],
PRIMEM["Greenwich",0],
UNIT["Degree",0.0174532925199433]],
PROJECTION["Albers"],
PARAMETER["False_Easting",0],
PARAMETER["False_Northing",0],
PARAMETER["central_meridian",25],
PARAMETER["Standard_Parallel_1",-12],
PARAMETER["Standard_Parallel_2",-31],
PARAMETER["latitude_of_origin",0],

Metadata File Identifier:
DEA_2013-2014 LandCover_12classes_1km_OR_2015_Q4_METADATA

Metadata Standard Name:
SANS 1878

Metadata Standard Version:
SANS 1878 version 1

Metadata Language:
English

Metadata Character Set:
021 (UsAscii)