CARBON SINKS ATLAS FOR SOUTH AFRICA

Total Biomass Organic Carbon of Natural and Transformed areas (gC/m²)

Metadata Date Stamp:

25 October 2015

DATASET DESCRIPTION

File Names:

Data:

TotalBiomassOrganicCarbon_Natural_Transformed_DEA_CSIR_1.1.9-2015-11-11

Metadata:

TBOC Natural and Transformed gC per sq.m OR 2015 Q4 Metadata

Dataset Reference Date:

2015/09/23

Data quality:

Good – data modelled in Carbon Stocks Model and accuracies of this layer is dependent on the accuracies of various base layers used in modelling

Dataset Responsible Party:

Department of Environmental Affairs / Director Enterprise Geospatial Information Management

Geographic Location of the Dataset: RSA

West 15.637661 East 33.655553 North -21.918463 South -35.027407

Keywords:

TBOC, Total Biomass Organic Carbon, organic carbon

Dataset Language:

English (SOUTH AFRICA)

Dataset Character Set:

utf8 - 8 bit UCS Transfer Format

Dataset Topic Category:

007 = Environment (ISO 19115 Topic category)

Dimensions:

X: 1406 Y:1207 Bands: 1

Spatial Resolution of the Dataset:

1189.318433 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	TBOC_natural_transfomed _gC_per_sq.m_OR_2015_ Q4

Citation:

Citation Information:

Originator: Department of Environmental Affairs

Publication Date: May 2015

Title: South African National Terrestrial Carbon Sink Assessment

Location: Pretoria, South Africa

Geospatial Data Presentation Form: Raster digital data

Other Citation Details: Data of the South African National Terrestrial Carbon Sink Assessment is published on the SAEON shared platform. Link to detailed report: https://www.environment.gov.za/sites/default/files/docs/nationalterrestrial_carbon

sinksassessment_sect1.pdf.

Abstract:

The Total Biomass Organic Carbon of Natural and Transformed areas could simply be added together as they have each been corrected for fractional land cover. It therefore represents all the biomass organic carbon of natural vegetation, crops, urban areas and forestry plantations. For details see <u>Total Biomass Organic Carbon of Transformed areas and Total Biomass Organic Carbon of Natural Areas</u>

Purpose:

This data set is part of a series of output data layers generated by CSIR for DEA as part of the South African National Terrestrial Carbon Sink Assessment.

Link to detailed report:

<u>https://www.environment.gov.za/sites/default/files/docs/nationalterrestrial_carbonsinksassessment_sect1.pdf.</u>

Link to synopsis report:

https://www.environment.gov.za/sites/default/files/reports/nationalterrestrial_carbonsinks_synopsisreport.pdf

Supplemental Information:

None

Lineage Statement:

The first version of the data was generated in 2013, but not released. The data were released on-line for the first time in Nov 2015

ATTRIBUTE INFORMATION

Attribute Description:

Field name	Alias Name	Data Type	Description	Example
Cell value	Cell value	32-bit Floating point	Total Biomass Organic Carbon of Natural and Transformed areas as measured in gC/m ²	1244.18

SUPPLEMENTARY INFORMATION

None

DATA MAINTENANCE

Dataset last updated:

2015/10/06

Time Period of Content:

Carbon stocks were calculated to represent the long-term mean conditions 2000-2010.

Maintenance and update frequency:

No updates

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 as per citation information.

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

Distribution Format:

GeoTIFF

Copyright:

© DfID – Crown Copyright (2013)

You may re-use this information (excluding logos) free of charge in any format or medium under the terms of the Open Government License (OGL). To view this license, visit

http://www.nationalarchives.gov.uk/doc/open-government-licence/version/3/ or email psi@nationalarchives.gsi.gov.uk

Where any third-party copyright information is identified, you will need to obtain permission from the copyright holders concerned.

Terms of use:

The data can be used and copied for non-commercial purposes. The user shall not sell or license the spatial data or digital maps. The Department of Environmental Affairs cannot give any warranty on the accuracy of the map. The Department of Environmental Affairs shall in no way be liable for results related to the use of these maps. Users of these digital maps must acknowledge the copyright for the digital map. Source: Department of Environmental Affairs.

Acknowledgments:

The development of the online Carbon Sinks Atlas and website was funded by Deutsche Gesellschaft für Internationale Zusammenarbeit (GIZ). Visit https://www.giz.de for more information on GIZ.

The models for the National Terrestrial Carbon Sinks Assessment for South Africa and the online Carbon Sinks Atlas were developed by CSIR for the South African Department of Environmental Affairs (DEA).

The National Terrestrial Carbon Sink Assessment (2015) was conducted for and published by Department of Environmental Affairs, Pretoria, South Africa. Link to report: https://www.environment.gov.za/sites/default/files/docs/nationalterrestrial_carbonsinksassessment sect1.pdf.

The National Terrestrial Carbon Sink Assessment for South Africa was funded by UK Department for International Development (DfID). Visit https://www.gov.uk/government/organisations/department-for-international-development for more information on DfID

METADATA INFORMATION

Metadata Contacts:

Barney Kgope
Department of Environmental Affairs
Bkgope@environment.gov.za
+27123999165

Itchell Guiney
Department of Environmental Affairs
<u>iguiney@environment.gov.za</u>
+27123999166

Director: Enterprise Geospatial Information Management <u>DEADATA @environment.gov.za</u> +27 12 399 8916

Postal Address:

Department of Environmental Affairs

Directorate: Enterprise Geospatial Information
Management Private Bag X447

Pretoria

Gauteng

South Africa
0001

Physical Address:

Environmental House 473 Steve Biko, Arcadia Pretoria 0083

```
Producers of Data:
```

Point of Contact:

Dr Graham Von Maltitz

CSIR Natural Resources and Environment (NRE)

gvmalt@csir.co.za

Dr. Konrad Wessels CSIR Meraka Institute kwessels@csir.co.za

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:

TBOC_Natural_and_Transformed_gC_per_sq.m_OR_2015_Q4_METADATA

Metadata Standard Name:

SANS 1878

Metadata Standard Version:

SANS 1878/1:2005

Metadata Language:

English

Metadata Character Set:

US/Ascii