

A new high-resolution nation-wide aboveground carbon map for Brazil

SND-ID: ecds0244-1. **Version:** 1.0. **DOI:** <https://doi.org/10.5879/ecds/2017-09-12.1/1>

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Download data

ECDS0244-001-V1.0.zip (1.25 GB)

Citation

Englund, O. (2017) A new high-resolution nation-wide aboveground carbon map for Brazil (Version 1.0) [Data set]. Chalmers University of Technology. Available at: <https://doi.org/10.5879/ecds/2017-09-12.1/1>

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Description

Brazil is home to the largest tracts of tropical vegetation in the world, harbouring high levels of biodiversity and carbon. Several biomass maps have been produced for Brazil, using different approaches and methods, and for different purposes. These maps have been used to estimate historic, recent, and future carbon emissions from land use change (LUC). It can be difficult to determine which map to use for what purpose. The implications of using an unsuitable map can be significant, since the maps have large differences—both in terms of total carbon storage and its spatial distribution.

This dataset of aboveground carbon was created based on data from existing maps and an up-to-date LULC map. The map reflects current LULC, has high accuracy and resolution (50 m), and a national coverage. It can be a useful alternative for scientific studies and policy initiatives concerned with existing LULC and LUC outside of existing forests, especially at local scales when high resolution is necessary, and/or outside the Amazon biome.

Map unit: tonnes of aboveground carbon per hectare.

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Map unit: tonnes of aboveground carbon per hectare.

Data contains personal data

No

Data format / data structure

[Geospatial](#)

Geographic spread

Geographic location: [Brazil](#)

Responsible department/unit

Department of Space, Earth and Environment

Research area

[Earth and related environmental sciences](#) (Standard för svensk indelning av forskningsämnen 2011)

[Geoscientific information](#) (INSPIRE topic categories)

[Environment](#) (INSPIRE topic categories)

Keywords

[Vegetation](#), [Biomass](#), [Carbon](#), [Land use change \(luc\)](#), [Aboveground carbon](#)

Publications

Englund, O., Sparovek, G., Berndes, G., Freitas, F., Ometto, JP., Valle, P., Costa C., and Lapola, D., 2017. A new high-resolution nation-wide aboveground carbon map for Brazil. *Geo: Geography and Environment*, 4(2), e00045. <<http://dx.doi.org/10.1002/geo2.45>>; [Geo: Geography and Environment](#)

If you have published anything based on these data, [please notify us](#) with a reference to your publication(s). If you are responsible for the catalogue entry, you can update the metadata/data description in DORIS.

Polygon (Lon/Lat)

-73.990238, 5.270972

-73.990238, -33.751358

-32.390875, -33.751358

-32.390875, 5.270972

-73.990238, 5.270972

Accessibility level

Access to data through SND

Data are freely accessible

Use of data

[Things to consider when using data shared through SND](#)

License

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Versions

Version 1.0. 2017-10-24

Download metadata

[DataCite](#)

[DDI 2.5](#)

[DDI 3.3](#)

[DCAT-AP-SE 2.0](#)

[JSON-LD](#)

[PDF](#)

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[File overview \(CSV\)](#)

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