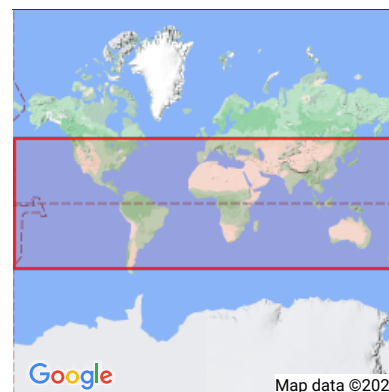


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GEDI L4B Gridded Aboveground Biomass Density, Version 2

Overview

DOI	https://doi.org/10.3334/ORNLDAAC/2017
Version	2
Project	GEDI
Published	2022-03-29
Updated	2022-03-29
Usage	5373 downloads

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Spatial Coverage

Bounding rectangle

N: 52.00 S: -52.00 E: 180.00 W: -180.00

Temporal Coverage

2019-04-18 to 2021-08-04

Description

This Global Ecosystem Dynamics Investigation (GEDI) L4B product provides 1 km x 1 km (1 km, hereafter) estimates of mean aboveground biomass density (AGBD) based on observations from mission week 19 starting on 2019-04-18 to mission week 138 ending on 2021-08-04. The GEDI L4A Footprint Biomass product converts each high-quality waveform to an AGBD prediction, and the L4B product uses the sample present within the borders of each 1 km cell to statistically infer mean AGBD. The gridding procedure is described in the GEDI L4B Algorithm Theoretical Basis Document (ATBD). Patterson et al. (2019) describes the hybrid model-based mode of inference used in the L4B product. Corresponding 1 km estimates of the standard error of the mean are also provided in the L4B product. Uncertainty is due to both GEDI's sampling of the 1 km area (as opposed to making wall-to-wall observations) and the fact that L4A biomass values are modeled in a process subject to error instead of measured in a process that may be assumed to be error-free.

Science Keywords

SPECTRAL/ENGINEERING ► LIDAR ► LIDAR WAVEFORM
BIOSPHERE ► VEGETATION ► BIOMASS
BIOSPHERE ► ECOSYSTEMS ► TERRESTRIAL ECOSYSTEMS

Data Use and Citation

Dubayah, R.O., J. Armston, S.P. Healey, Z. Yang, P.L. Patterson, S. Saarela, G. Stahl, L. Duncanson, and J.R. Kellner. 2022. GEDI L4B Gridded Aboveground Biomass Density, Version 2. ORNL DAAC, Oak Ridge, Tennessee, USA. <https://doi.org/10.3334/ORNLDAAC/2017>

Download citation from Datacite

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Data Files

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Show 25 entries	Data File (Granule)	Size	Start Date	End Date	N Lat	S Lat	E Lon
	GEDI04_B_MW019MW138_02_002_05_R01000M_MI.tif	16.2 MB	2019-04-18	2021-08-04	52.00	-52.00	180.
	GEDI04_B_MW019MW138_02_002_05_R01000M_MU.tif	538.0 MB	2019-04-18	2021-08-04	52.00	-52.00	180.
	GEDI04_B_MW019MW138_02_002_05_R01000M_NC.tif	73.1 MB	2019-04-18	2021-08-04	52.00	-52.00	180.
	GEDI04_B_MW019MW138_02_002_05_R01000M_NS.tif	159.6 MB	2019-04-18	2021-08-04	52.00	-52.00	180.
	GEDI04_B_MW019MW138_02_002_05_R01000M_PE.tif	103.3 MB	2019-04-18	2021-08-04	52.00	-52.00	180.
	GEDI04_B_MW019MW138_02_002_05_R01000M_PS.tif	20.1 MB	2019-04-18	2021-08-04	52.00	-52.00	180.
	GEDI04_B_MW019MW138_02_002_05_R01000M_QF.tif	17.8 MB	2019-04-18	2021-08-04	52.00	-52.00	180.
	GEDI04_B_MW019MW138_02_002_05_R01000M_SE.tif	537.5 MB	2019-04-18	2021-08-04	52.00	-52.00	180.
	GEDI04_B_MW019MW138_02_002_05_R01000M_V1.tif	536.2 MB	2019-04-18	2021-08-04	52.00	-52.00	180.
	GEDI04_B_MW019MW138_02_002_05_R01000M_V2.tif	580.4 MB	2019-04-18	2021-08-04	52.00	-52.00	180.

Showing 1 to 10 of 10 entries

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Companion Files



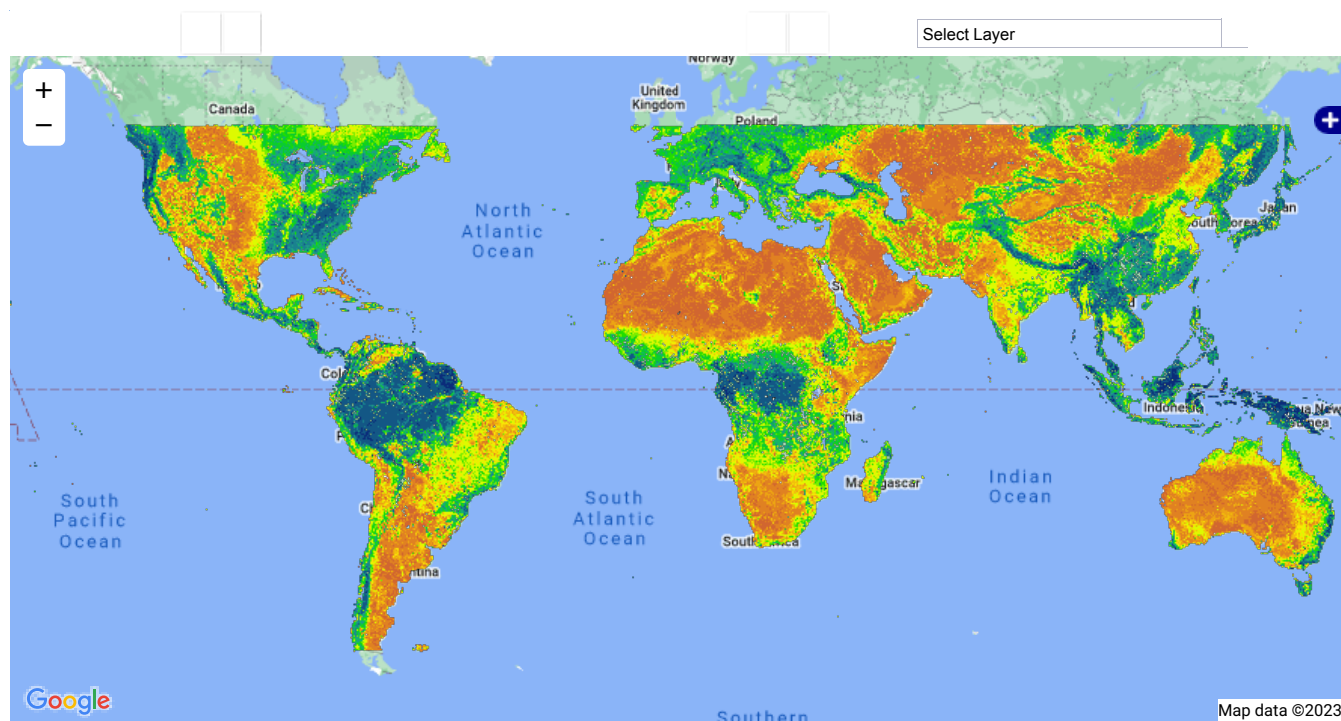
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Dataset has 2 companion files.

- GEDI_L4B_ATBD_v1.0.pdf
- GEDI_L4B_Gridded_Biomass.pdf

Visualize and Subset Data

Download customized subsets in user-selected projection and format using the [Spatial Data Access Tool](#).



Additional Resources

Type	Title
Webinar	Explore NASA GEDI Aboveground Biomass Datasets, Services, and Tools at ORNL DAAC



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