TropSOC Database

2.1.2. Forest – Vegetation – Forest inventory aggregated

When using these data, please cite the database and the key publication in ESSD:

Doetterl, S.; Bukombe, B.; Cooper, M.; Kidinda, L.; Muhindo, D.; Reichenbach, M.; Stegmann, A.; Summerauer, L.; Wilken, F.; Fiener, P. (2021): TropSOC Database. V. 1.0. GFZ Data Services.
https://doi.org/10.5880/fidgeo.2021.009
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Doetterl S., Asifiwe R.K., Baert G., Bamba F., Bauters M., Boeckx P., Bukombe B., Cadisch G., Cizungu L.N., Cooper M., Hoyt A., Kabaseke C., Kalbitz K., Kidinda L., Maier A., Mainka M., Mayrock J., Muhindo D., Mujinya B.B., Mukotanyi, S.M., Nabahungu L., Reichenbach M., Rewald B., Six J., Stegmann A., Summerauer L., Unseld R., Van-lauwe B., Van Oost K., Verheyen K. Vogel C., Wilken F., Fiener P. Organic matter cycling along geochemical, geomorphic and disturbance gradients in forests and cropland of the African Tropics - Project TropSOC Database Version 1.0. *Earth System Science Data*. https://doi.org/10.5194/essd-2021-73, 2021.

Introduction

The data set comprises a unique plot identifier and 15 aggregated variables that describe forest vegetation properties based on two forest inventories carried out in 2018/19 and 2020. Missing values are indicated by -9999.

Data structure

No.	Variable	Explanation	Unit
1	plotID	unique identifier of each plot and point where data were collected	-
2	mean_dbh18	plot mean stem diameter at breast height 2018	cm
3	sd_dbh18	standard deviation of plot mean stem diameter at breast height 2018	cm
4	mean_dbh20	plot mean stem diameter at breast height 2020	cm
5	sd_dbh20	standard deviation of plot mean stem diameter at breast height 2020	cm
6	avg_treeH18	predicted mean tree height per plot for 2018	m
7	sd_treeH18	standard deviation of predicted mean tree height per plot for 2018	m
8	agb18	above-ground biomass per unit area per plot for 2018; calculated as the sum of the biomass of a plot's individual trees	mg ha^{-1}
9	agc18	above-ground carbon stock per unit area per plot for 2018; assumed to be 50% of the total biomass	mg ha^{-1}
10	agb20	above-ground biomass per unit area per plot for 2020; calculated as the sum of the biomass of a plot's individual trees	mg ha^{-1}
11	agc20	above-ground carbon stock per unit area per plot for 2020; assumed to be 50% of the total biomass	mg ha^{-1}
12	period	Monitoring period (time between forest inventories). 1 = 12 months; 2 = 24 months; 2.3 = 28 months.	yr
13	productivity	annual biomass productivity per unit area and time	mg ha^{-1} yr^{-1}
14	stems18	number of living stems per plot in 2018	-
15	stems20	number of living stems per plot in 2020	-
16	lambda	mortality rate	%

Methods

This aggregated dataset is based on two conducted forest inventories done in 2018/19 and 2020 (*211_forest_invent.csv*). Details regarding this inventory are given in *211_forest_invent.pdf*. Aggregation is done at the plot level and for both forest inventories separately.

Acknowledgment