

Organic matter cycling along geochemical, geomorphic and disturbance gradients in vegetation and soils of African tropical forests and cropland - Project TropSOC DATABASE_v1.0

2.1.13. Forest – Vegetation – Root productivity aggregated to annual values

When using these data, please cite the original publication:

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* XXX, DOI XXX, 2021.

Introduction

The dataset comprises a unique plot identifier, followed by 6 variables that provide data regarding root productivity aggregated for annual values at the plot level for TropSOC's forest plots. Missing values are indicated by -9999.

Data structure

No.	Variable	Explanation	Unit
1	plotID		-
2	min_bio	minimum fine root (< 2 mm) biomass productivity	kg ha ⁻¹ day ⁻¹
3	max_bio	maximum fine root (< 2 mm) biomass productivity	kg ha ⁻¹ day ⁻¹
4	mean_bio	mean fine root (< 2 mm) biomass productivity	kg ha ⁻¹ day ⁻¹
5	sd_bio	standard deviation of mean fine root (< 2 mm) biomass productivity	kg ha ⁻¹ day ⁻¹
6	sum_bio	sum of fine root (< 2 mm) biomass productivity	kg ha ⁻¹ year ⁻¹
7	no	total number of observations considered in the calculations	-

Methods

This dataset comprises an annual aggregation at the plot level of the root productivity data (2111_root_prod.csv) described in detail in 2111_root_prod.pdf.

Acknowledgment

TropSOC was funded via the Emmy-Noether-Program of the German Research Foundation (project ID 387472333).